284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

DATA PACKAGE

GENERAL CHEMISTRY

PROJECT NAME : NJ WASTE WATER PT

CHEMTECH CONSULTING GROUP

284 Sheffield St,

Mountainside, NJ - 07092

Phone No: 908-789-8900

ORDER ID : P3848

ATTENTION : QA Officer

Laboratory Certification ID # 20012

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Cover Page

Order ID : P3848

Project ID : NJ Waste Water PT

Client : Chemtech Consulting Group

Lab Sample Number	Client Sample Number
P3848-01	PT-CR6-WP
P3848-02	PT-CR6-WP
P3848-03	PT-DEM-WP
P3848-04	PT-DEM-WP
P3848-05	PT-MIN1-WP
P3848-06	PT-MIN1-WP
P3848-07	PT-COND-WP
P3848-08	PT-COND-WP
P3848-09	PT-COND-WP
P3848-10	PT-SOL-WP
P3848-11	PT-NUT1-WP
P3848-12	PT-NUT1-WP
P3848-13	PT-NUT2-WP
P3848-14	PT-NUT3-WP
P3848-15	PT-NUT3-WP
P3848-16	PT-NUT3-WP
P3848-17	PT-ORG1L-WP
P3848-18	RR-TPH1L-WP
P3848-19	PT-CL-WP
P3848-20	PT-PH-WP
P3848-21	PT-PH-WP
P3848-22	PT-CN-WP
P3848-23	PT-CN-WP
P3848-24	PT-CN-WP
P3848-25	PT-PHEN-WP
P3848-26	PT-PHEN-WP
P3848-27	PT-COL-WP
P3848-28	PT-S2-WP
P3848-29	PT-S2-WP

I certify that the data package is in compliance with the terms and conditions of the contract,both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hard copy data package has been authorized by the laboratory manager or his designee, as verified by the following signature.

Signature : _____ Date: 12/5/2024

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

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Fax : 908 789 8922

Cover Page

Order ID : P3848

Project ID : NJ Waste Water PT

Client : Chemtech Consulting Group

Lab Sample Number	Client Sample Number
P3848-30	PT-SSOL-WP
P3848-31	PT-VSOL-WP
P3848-32	PT-VSOL-WP
P3848-33	PT-TURB-WP
P3848-34	PT-TURB-WP

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Signature : _____

Date: 12/5/2024

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

CASE NARRATIVE

Chemtech Consulting Group
Project Name: NJ Waste Water PT
Project # N/A
Chemtech Project # P3848
Test Name: Hexavalent Chromium,Settleable Solids,Nitrite,TS,Oil and Grease,Anions Group5,pH,Anions Group2,Alkalinity,Phosphorus-Ortho,Color,CBOD5,Cyanide,TVS,TOC,Phenolics,TKN,Ammonia,TPH,Turbidity, Residual Chlorine,Phosphorus-Total,TDS,COD,Chloride,BOD5,Sulfide,TSS,Anions Group1,Sulfate,Anions Group4,Conductance

A. Number of Samples and Date of Receipt:
34 Water samples were received on 09/05/2024.

B. Parameters:
According to the Chain of Custody document, the following analyses were requested: Alkalinity, Ammonia, Anions Group1, Anions Group2, Anions Group4, Anions Group5, BOD5, CBOD5, Chloride, COD, Color, Conductance, Cyanide, Hexavalent Chromium, Nitrite, Oil and Grease, pH, Phenolics, Phosphorus-Ortho, Phosphorus-Total, Residual Chlorine, Settleable Solids, Sulfate, Sulfide, TDS, TKN, TOC, TPH, TS, TSS, Turbidity and TVS. This data package contains results for Hexavalent Chromium,Settleable Solids,Nitrite,TS,Oil and Grease,Anions Group5,pH,Anions Group2,Alkalinity,Phosphorus-Ortho,Color,CBOD5,Cyanide,TVS,TOC,Phenolics,TKN,Ammonia,TPH,Turbidity,Residual Chlorine,Phosphorus-Total,TDS,COD,Chloride,BOD5,Sulfide,TSS,Anions Group1,Sulfate,Anions Group4,Conductance.

C. Analytical Techniques:
The analysis of Conductance was based on method 120.1, The analysis of TVS was based on method 160.4, The analysis of Oil and Grease,TPH was based on method 1664A, The analysis of Turbidity was based on method 180.1, The analysis of Anions Group1,Anions Group2,Anions Group4 was based on method 300.0, The analysis of Phosphorus-Total was based on method 365.3, The analysis of Phenolics was based on method 420.1, The analysis of Hexavalent Chromium was based on method 7196A, The analysis of Cyanide was based on method 9012B, The analysis of Cyanide was based on method 9014, The analysis of Sulfide was based on method 9034, The analysis of Sulfate was based on method 9038, The analysis of pH was based on method 9040C, The analysis of Conductance was based on method 9050A, The analysis of Anions Group1,Anions Group2,Anions Group5 was based on method 9056A, The analysis of TOC was based on method 9060A, The analysis of Phenolics was based on method 9065, The analysis of pH was based on method SM 4500-H B, The analysis of Sulfate was based on method SM 4500-SO4E, The analysis of Color was based on method SM2120 B, The analysis of Turbidity was based on method SM2130 B, The analysis of Alkalinity was based on

method SM2320 B, The analysis of Conductance was based on method SM2510 B, The analysis of TS was based on method SM2540 B, The analysis of TDS was based on method SM2540 C, The analysis of TSS was based on method SM2540 D, The analysis of Settleable Solids was based on method SM2540 F, The analysis of TVS was based on method SM2540 G, The analysis of Hexavalent Chromium was based on method SM3500-Cr B, The analysis of Residual Chlorine was based on method SM4500 Cl G, The analysis of TKN was based on method SM4500 N Org B or C, The analysis of Sulfide was based on method SM4500 S EorF, The analysis of Chloride was based on method SM4500-CL C, The analysis of Cyanide was based on method SM4500-CN C,E, The analysis of Ammonia was based on method SM4500-NH3, The analysis of Nitrite was based on method SM4500-NO2 B, The analysis of Phosphorus-Ortho was based on method SM4500-P E, The analysis of BOD5,CBOD5 was based on method SM5210 B, The analysis of COD was based on method SM5220 D and The analysis of TOC was based on method SM5310B.

D. QA/ QC Samples:

The Holding Times were met for all analysis.
Sample PT-MIN1-WP was diluted due to high concentrations for Chloride,Sulfate
& Sample PT-MIN1-WPDL was diluted due to high concentrations for Chloride
& Sample PT-MIN1-WP was diluted due to high concentrations for Chloride,Sulfate
& Sample PT-MIN1-WPDL was diluted due to high concentrations for Chloride
& Sample PT-NUT1-WP was diluted due to high concentrations for Ammonia as N, Nitrate
& Sample PT-NUT1-WP was diluted due to high concentrations for Orthophosphate as P, Nitrate
& Sample PT-NUT2-WP was diluted due to high concentrations for Phosphorus, Total,TKN
& Sample PT-NUT3-WP was diluted due to high concentrations for Nitrite.
The Blank Spike met requirements for all samples.
The Duplicate (AST-2024-4036-PRIMDUP) analysis met criteria for all samples except for Phenolics but sample and duplicate results are less then reporting limit
The Matrix Spike (PURGE-WATERMS) analysis met criteria for all samples except for Chloride due to matrix interference.
The Matrix Spike Duplicate (PURGE-WATERMSD) analysis met criteria for all samples except for Chloride due to matrix interference.
The Blank analysis did not indicate the presence of lab contamination.
The Calibration met the requirements.

E. Additional Comments:

I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed

above. The laboratory manager or his designee, as verified by the following signature has authorized release of the data contained in this hard copy data package.

Signature_____

284 Sheffield Street, Mountainside NJ 07092
Tel. 908-789-8900 Fax: 908-789-8922

DATA REPORTING QUALIFIERS- INORGANIC

For reporting results, the following " Results Qualifiers" are used:

J	Indicates the reported value was obtained from a reading that was less than the Contract Required Detection Limit (CRDL), but greater than or equal to the Instrument Detection Limit (IDL).
U	Indicates the analyte was analyzed for, but not detected.
ND	Indicates the analyte was analyzed for, but not detected
E	Indicates the reported value is estimated because of the presence of interference
M	Indicates Duplicate injection precision not met.
N	Indicates the spiked sample recovery is not within control limits.
S	Indicates the reported value was determined by the Method of Standard Addition (MSA).
*	Indicates that the duplicate analysis is not within control limits.
+	Indicates the correlation coefficient for the MSA is less than 0.995.
D	Indicates the reported value is from a secondary analysis with a dilution factor. The original analysis exceeded the calibration range.
M	Method qualifiers **"P"** for ICP instrument **"PM"** for ICP when Microwave Digestion is used **"CV"** for Manual Cold Vapor AA **"AV"** for automated Cold Vapor AA **"CA"** for MIDI-Distillation Spectrophotometric **"AS"** for Semi –Automated Spectrophotometric **"C"** for Manual Spectrophotometric **"T"** for Titrimetric **"NR"** for analyte not required to be analyzed
OR	Indicates the analyte's concentration exceeds the calibrated range of the instrument for that specific analysis.
Q	Indicates the LCS did not meet the control limits requirements
H	Sample Analysis Out Of Hold Time

QA Control # A3040961

ALLIANCE 284 Sheffield Street, Mountainside New Jersey 07092

NEW JERSEY LAB ID#: 20012: NEW YORK LAB ID#: 11376

GENERAL CHEMISTRY CONFORMANCE/NON-CONFORMANCE SUMMARY

CHEMTECH PROJECT NUMBER: P3848

MATRIX : Water

METHOD:
120.1,160.4,1664A,180.1,300.0,365.3,420.1,7196A,9012B,9014,9034,9038,9040C,9050A,9056A,9060A,9065,SM 4500-H B,SM 4500-SO4E,SM2120 B,SM2130 B,SM2320 B,SM2510 B,SM2540 B,SM2540 C,SM2540 D,SM2540 F,SM2540 G,SM3500-Cr B,SM4500 Cl G,SM4500 N Org B or C,SM4500 S EorF,SM4500-CL C,SM4500-CN C,E,SM4500-NH3,SM4500-NO2 B,SM4500-P E,SM5210 B,SM5220 D,SM5310B

		NA	NO	YES
1.	Blank Contamination - If yes, list compounds and concentrations in each blank:		✓	
2.	Matrix Spike Duplicate Recoveries Met Criteria		✓	
	If not met, list those compounds and their recoveries which fall outside the acceptable range.			
	The Blank Spike met requirements for all samples.The Matrix Spike (PURGE-WATERMS) analysis met criteria for all samples except for Chloride due to matrix interference. The Matrix Spike Duplicate (PURGE-WATERMSD) analysis met criteria for all samples except for Chloride due to matrix interference.			
3.	Sample Duplicate Analysis Met QC Criteria		✓	
	If not met, list those compounds and their recoveries which fall outside the acceptable range.			
	The Duplicate (AST-2024-4036-PRIMDUP) analysis met criteria for all samples except for Phenolics but sample and duplicate results are less then reporting limit			
4.	Digestion Holding Time Met		✓	
	If not met, list number of days exceeded for each sample: The Holding Times were met for all analysis.			

ADDITIONAL COMMENTS:

_____ _____

QA REVIEW Date

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: P3848

	Completed
For thorough review, the report must have the following:	
GENERAL:	
Are all original paperwork present (chain of custody, record of communication,airbill, sample management lab chronicle, login page)	✓
Check chain-of-custody for proper relinquish/return of samples	✓
Is the chain of custody signed and complete	✓
Check internal chain-of-custody for proper relinquish/return of samples /sample extracts	✓
Collect information for each project id from server. Were all requirements followed	✓
COVER PAGE:	
Do numbers of samples correspond to the number of samples in the Chain of Custody on login page	✓
Do lab numbers and client Ids on cover page agree with the Chain of Custody	✓
CHAIN OF CUSTODY:	
Do requested analyses on Chain of Custody agree with form I results	✓
Do requested analyses on Chain of Custody agree with the log-in page	✓
Were the correct method log-in for analysis according to the Analytical Request and Chain of Castody	✓
Were the samples received within hold time	✓
Were any problems found with the samples at arrival recorded in the Sample Management Laboratory Chronicle	✓
ANALYTICAL:	
Was method requirement followed?	✓
Was client requirement followed?	✓
Does the case narrative summarize all QC failure?	✓
All runlogs and manual integration are reviewed for requirements	✓
All manual calculations and /or hand notations verified	✓

QA Review Signature: SOHIL JODHANI **Date:** 12/05/2024

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900, Fax : 908 789 8922

LAB CHRONICLE

OrderID:	P3848	**OrderDate:**	9/5/2024 2:22:00 PM
Client:	Chemtech Consulting Group	**Project:**	NJ Waste Water PT
Contact:	QA Officer	**Location:**	QA Office

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
P3848-01	**PT-CR6-WP**	**WATER**			**09/03/24 10:00**			**09/05/24**
			Hexavalent Chromium	7196A			09/17/24 16:54	
P3848-02	**PT-CR6-WP**	**WATER**			**09/03/24 10:00**			**09/05/24**
			Hexavalent Chromium	SM3500-Cr B			09/24/24 17:04	
P3848-03	**PT-DEM-WP**	**WATER**			**09/03/24 10:00**			**09/05/24**
			BOD5	SM5210 B			09/12/24 17:10	
			CBOD5	SM5210 B			09/12/24 17:10	
			COD	SM5220 D			09/19/24 14:32	
			TOC	SM5310B			09/26/24 13:56	
P3848-04	**PT-DEM-WP**	**WATER**			**09/03/24 10:00**			**09/05/24**
			TOC	9060A			09/26/24 13:56	
P3848-05	**PT-MIN1-WP**	**WATER**			**09/03/24 10:00**			**09/05/24**
			Alkalinity	SM2320 B			09/19/24 10:48	
			Anions Group1	300.0			09/17/24 12:03	

LAB CHRONICLE

			Chloride	SM4500-CL C		09/18/24 13:21	
			Sulfate	SM 4500-SO4E		09/20/24 10:16	
P3848-05DL	**PT-MIN1-WPDL**	**WATER**			**09/03/24 10:00**		**09/05/24**
			Anions Group1	300.0		09/17/24 13:08	
			Sulfate	SM 4500-SO4E		09/20/24 10:20	
P3848-05DL2	**PT-MIN1-WPDL2**	**WATER**			**09/03/24 10:00**		**09/05/24**
			Anions Group1	300.0		09/17/24 13:29	
P3848-06	**PT-MIN1-WP**	**WATER**			**09/03/24 10:00**		**09/05/24**
			Anions Group1	9056A		09/17/24 12:03	
			Sulfate	9038		09/20/24 12:15	
P3848-06DL	**PT-MIN1-WPDL**	**WATER**			**09/03/24 10:00**		**09/05/24**
			Anions Group1	9056A		09/17/24 13:08	
			Sulfate	9038		09/20/24 12:18	
P3848-06DL2	**PT-MIN1-WPDL2**	**WATER**			**09/03/24 10:00**		**09/05/24**
			Anions Group1	9056A		09/17/24 13:29	
P3848-07	**PT-COND-WP**	**Water**			**09/03/24 10:00**		**09/05/24**
			Conductance	SM2510 B		09/13/24 12:40	
P3848-08	**PT-COND-WP**	**Water**			**09/03/24 10:00**		**09/05/24**

LAB CHRONICLE

			Conductance	120.1			09/13/24 12:40	
P3848-09	**PT-COND-WP**	**Water**			**09/03/24 10:00**			**09/05/24**
			Conductance	9050A			09/13/24 12:40	
P3848-10	**PT-SOL-WP**	**WATER**			**09/03/24 10:00**			**09/05/24**
			TDS	SM2540 C			10/01/24 17:30	
			TS	SM2540 B			10/01/24 11:00	
			TSS	SM2540 D			10/03/24 10:00	
P3848-11	**PT-NUT1-WP**	**WATER**			**09/03/24 10:00**			**09/05/24**
			Ammonia	SM4500-NH3		09/17/24	09/18/24 11:19	
			Anions Group2	300.0			09/17/24 12:25	
P3848-11DL	**PT-NUT1-WPDL**	**WATER**			**09/03/24 10:00**			**09/05/24**
			Ammonia	SM4500-NH3		09/17/24	09/18/24 12:07	
			Anions Group2	300.0			09/17/24 13:51	
P3848-12	**PT-NUT1-WP**	**WATER**			**09/03/24 10:00**			**09/05/24**
			Anions Group2	9056A			09/17/24 12:25	
			Phosphorus-Ortho	SM4500-P E			09/20/24 15:26	
P3848-12DL	**PT-NUT1-WPDL**	**WATER**			**09/03/24 10:00**			**09/05/24**

LAB CHRONICLE

			Anions Group2	9056A			09/17/24 13:51	
			Phosphorus-Ortho	SM4500-P E			09/20/24 15:29	
P3848-13	**PT-NUT2-WP**	**WATER**			**09/03/24 10:00**			**09/05/24**
			Phosphorus-Total	365.3		09/12/24	09/12/24 16:06	
			TKN	SM4500-N Org C-11 plus NH3 B plus G-11		09/18/24	09/18/24 16:36	
P3848-13DL	**PT-NUT2-WPDL**	**WATER**			**09/03/24 10:00**			**09/05/24**
			Phosphorus-Total	365.3		09/12/24	09/12/24 16:09	
			TKN	SM4500-N Org C-11 plus NH3 B plus G-11		09/18/24	09/18/24 17:17	
P3848-14	**PT-NUT3-WP**	**WATER**			**09/03/24 10:00**			**09/05/24**
			Nitrite	SM4500-NO2 B			09/17/24 16:04	
P3848-14DL	**PT-NUT3-WPDL**	**WATER**			**09/03/24 10:00**			**09/05/24**
			Nitrite	SM4500-NO2 B			09/17/24 16:04	
P3848-15	**PT-NUT3-WP**	**WATER**			**09/03/24 10:00**			**09/05/24**
			Anions Group4	300.0			09/17/24 12:46	
P3848-16	**PT-NUT3-WP**	**WATER**			**09/03/24 10:00**			**09/05/24**

LAB CHRONICLE

			Anions Group5	9056A			09/17/24 12:46	
P3848-17	**PT-ORG1L-WP**	**WATER**			**09/03/24 10:00**			**09/05/24**
			Oil and Grease	1664A			09/26/24 09:20	
P3848-18	**RR-TPH1L-WP**	**WATER**			**09/03/24 10:00**			**09/05/24**
			TPH	1664A			09/26/24 09:40	
P3848-19	**PT-CL-WP**	**Water**			**09/03/24 10:00**			**09/05/24**
			Residual Chlorine	SM4500 Cl G			09/16/24 16:36	
P3848-20	**PT-PH-WP**	**WATER**			**09/03/24 10:00**			**09/05/24**
			pH	9040C			09/23/24 11:25	
P3848-21	**PT-PH-WP**	**WATER**			**09/03/24 10:00**			**09/05/24**
			pH	SM 4500-H B			09/23/24 11:25	
P3848-22	**PT-CN-WP**	**WATER**			**09/03/24 10:00**			**09/05/24**
			Cyanide	SM4500-CN C,E		09/24/24	09/24/24 15:09	
P3848-23	**PT-CN-WP**	**WATER**			**09/03/24 10:00**			**09/05/24**
			Cyanide	9012B		09/24/24	09/25/24 11:48	
P3848-24	**PT-CN-WP**	**WATER**			**09/03/24 10:00**			**09/05/24**
			Cyanide	9014		09/24/24	09/25/24 12:53	

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LAB CHRONICLE

P3848-25	**PT-PHEN-WP**	**WATER**			**09/03/24 10:00**			**09/05/24**
			Phenolics	9065		09/19/24	09/19/24 17:01	
P3848-26	**PT-PHEN-WP**	**WATER**			**09/03/24 10:00**			**09/05/24**
			Phenolics	420.1		09/19/24	09/19/24 15:56	
P3848-27	**PT-COL-WP**	**Water**			**09/03/24 10:00**			**09/05/24**
			Apparent Color	SM2120 B			09/13/24 15:05	
P3848-28	**PT-S2-WP**	**WATER**			**09/03/24 10:00**			**09/05/24**
			Sulfide	SM4500 S EorF		09/30/24	09/30/24 13:27	
P3848-29	**PT-S2-WP**	**WATER**			**09/03/24 10:00**			**09/05/24**
			Sulfide	9034		09/30/24	09/30/24 13:06	
P3848-30	**PT-SSOL-WP**	**Water**			**09/03/24 10:00**			**09/05/24**
			Settleable Solids	SM2540 F			09/13/24 13:15	
P3848-31	**PT-VSOL-WP**	**WATER**			**09/03/24 10:00**			**09/05/24**
			TVS	SM2540 G			10/15/24 16:00	
P3848-32	**PT-VSOL-WP**	**WATER**			**09/03/24 10:00**			**09/05/24**
			TVS	160.4			10/15/24 16:00	
P3848-33	**PT-TURB-WP**	**Water**			**09/03/24 10:00**			**09/05/24**

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LAB CHRONICLE

			Turbidity	SM2130 B		09/26/24 11:08	
P3848-34	**PT-TURB-WP**	**Water**			**09/03/24 10:00**		**09/05/24**
			Turbidity	180.1		09/26/24 11:08	

SAMPLE DATA

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Report of Analysis

Client:	Chemtech Consulting Group	Date Collected:	09/03/24 10:00
Project:	NJ Waste Water PT	Date Received:	09/05/24
Client Sample ID:	PT-CR6-WP	SDG No.:	P3848
Lab Sample ID:	P3848-01	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Dissolved Hexavalent Chromium	0.57		1	0.0030	0.010	mg/L		09/17/24 16:54	7196A

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
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J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
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N =Spiked sample recovery not within control limits

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Report of Analysis

Client:	Chemtech Consulting Group	Date Collected:	09/03/24 10:00
Project:	NJ Waste Water PT	Date Received:	09/05/24
Client Sample ID:	PT-CR6-WP	SDG No.:	P3848
Lab Sample ID:	P3848-02	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Dissolved Hexavalent Chromium	0.57		1	0.0020	0.010	mg/L		09/24/24 17:04	SM 3500-Cr B-11

Comments:

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Report of Analysis

Client:	Chemtech Consulting Group	Date Collected:	09/03/24 10:00
Project:	NJ Waste Water PT	Date Received:	09/05/24
Client Sample ID:	PT-DEM-WP	SDG No.:	P3848
Lab Sample ID:	P3848-03	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
BOD5	89.4		1	0.17	2.00	mg/L		09/12/24 17:10	SM 5210 B-16
CBOD5	86.8		1	0.17	2.00	mg/L		09/12/24 17:10	SM 5210 B-16
COD	179	D	2	4.70	20.0	mg/L		09/19/24 14:32	SM 5220 D-11
TOC	73.9	D	5	0.95	5.00	mg/L		09/26/24 13:56	SM 5310 B-14

Comments:

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Report of Analysis

Client:	Chemtech Consulting Group	Date Collected:	09/03/24 10:00
Project:	NJ Waste Water PT	Date Received:	09/05/24
Client Sample ID:	PT-DEM-WP	SDG No.:	P3848
Lab Sample ID:	P3848-04	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
TOC	73.9	D	5	0.95	5.00	mg/L		09/26/24 13:56	9060A

Comments:

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Report of Analysis

Client:	Chemtech Consulting Group	Date Collected:	09/03/24 10:00
Project:	NJ Waste Water PT	Date Received:	09/05/24
Client Sample ID:	PT-MIN1-WP	SDG No.:	P3848
Lab Sample ID:	P3848-05	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Alkalinity	73.3		1	1.00	2.00	mg/L		09/19/24 10:48	SM 2320 B-11
Bromide	8.90		1	0.034	2.00	mg/L		09/17/24 12:03	300.0
Chloride	338	OR	1	0.011	0.60	mg/L		09/17/24 12:03	300.0
Fluoride	1.40		1	0.057	0.40	mg/L		09/17/24 12:03	300.0
Sulfate	117	OR	1	0.032	3.00	mg/L		09/17/24 12:03	300.0
Chloride	224		1	1.27	5.00	mg/L		09/18/24 13:21	SM 4500-Cl C-11
Sulfate	110	OR	1	0.73	5.00	mg/L		09/20/24 10:16	SM 4500-SO4E

Comments: The alkalinity to pH 4.26=73.3 mg CaCO3/L

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Report of Analysis

Client:	Chemtech Consulting Group	Date Collected:	09/03/24 10:00
Project:	NJ Waste Water PT	Date Received:	09/05/24
Client Sample ID:	PT-MIN1-WPDL	SDG No.:	P3848
Lab Sample ID:	P3848-05DL	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Chloride	273	OR	5	0.055	3.00	mg/L		09/17/24 13:08	300.0
Sulfate	105	D	5	0.16	15.0	mg/L		09/17/24 13:08	300.0
Sulfate	107	D	5	3.67	25.0	mg/L		09/20/24 10:20	SM 4500-SO4E

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Report of Analysis

Client:	Chemtech Consulting Group	Date Collected:	09/03/24 10:00
Project:	NJ Waste Water PT	Date Received:	09/05/24
Client Sample ID:	PT-MIN1-WPDL2	SDG No.:	P3848
Lab Sample ID:	P3848-05DL2	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Chloride	232	D	50	0.55	30.0	mg/L		09/17/24 13:29	300.0

Comments:

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Report of Analysis

Client:	Chemtech Consulting Group	Date Collected:	09/03/24 10:00
Project:	NJ Waste Water PT	Date Received:	09/05/24
Client Sample ID:	PT-MIN1-WP	SDG No.:	P3848
Lab Sample ID:	P3848-06	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Bromide	8.90		1	0.034	2.00	mg/L		09/17/24 12:03	9056A
Chloride	338	OR	1	0.011	0.60	mg/L		09/17/24 12:03	9056A
Fluoride	1.40		1	0.057	0.40	mg/L		09/17/24 12:03	9056A
Sulfate	117	OR	1	0.032	3.00	mg/L		09/17/24 12:03	9056A
Sulfate	108	OR	1	0.41	5.00	mg/L		09/20/24 12:15	9038

Comments:

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Report of Analysis

Client:	Chemtech Consulting Group	Date Collected:	09/03/24 10:00
Project:	NJ Waste Water PT	Date Received:	09/05/24
Client Sample ID:	PT-MIN1-WPDL	SDG No.:	P3848
Lab Sample ID:	P3848-06DL	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Chloride	273	OR	5	0.055	3.00	mg/L		09/17/24 13:08	9056A
Sulfate	105	D	5	0.16	15.0	mg/L		09/17/24 13:08	9056A
Sulfate	104	D	5	2.05	25.0	mg/L		09/20/24 12:18	9038

Comments:

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Report of Analysis

Client:	Chemtech Consulting Group	Date Collected:	09/03/24 10:00
Project:	NJ Waste Water PT	Date Received:	09/05/24
Client Sample ID:	PT-MIN1-WPDL2	SDG No.:	P3848
Lab Sample ID:	P3848-06DL2	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Chloride	232	D	50	0.55	30.0	mg/L		09/17/24 13:29	9056A

Comments:

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Report of Analysis

Client:	Chemtech Consulting Group	Date Collected:	09/03/24 10:00
Project:	NJ Waste Water PT	Date Received:	09/05/24
Client Sample ID:	PT-COND-WP	SDG No.:	P3848
Lab Sample ID:	P3848-07	Matrix:	Water
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Conductance	775		1	0.91	2.00	umho/cm		09/13/24 12:40	SM 2510 B-11

Comments: Conductance Result is Corrected to 25°C

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Report of Analysis

Client:	Chemtech Consulting Group	Date Collected:	09/03/24 10:00
Project:	NJ Waste Water PT	Date Received:	09/05/24
Client Sample ID:	PT-COND-WP	SDG No.:	P3848
Lab Sample ID:	P3848-08	Matrix:	Water
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Conductance	775		1	0.91	2.00	umho/cm		09/13/24 12:40	120.1

Comments: Conductance Result is Corrected to 25°C

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Report of Analysis

Client:	Chemtech Consulting Group	Date Collected:	09/03/24 10:00
Project:	NJ Waste Water PT	Date Received:	09/05/24
Client Sample ID:	PT-COND-WP	SDG No.:	P3848
Lab Sample ID:	P3848-09	Matrix:	Water
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Conductance	775		1	0.91	2.00	umho/cm		09/13/24 12:40	9050A

Comments: Conductance Result is Corrected to 25°C

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Report of Analysis

Client:	Chemtech Consulting Group	Date Collected:	09/03/24 10:00
Project:	NJ Waste Water PT	Date Received:	09/05/24
Client Sample ID:	PT-SOL-WP	SDG No.:	P3848
Lab Sample ID:	P3848-10	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
TDS	692		1	1.00	10.0	mg/L		10/01/24 17:30	SM 2540 C-15
TS	730		1	1.00	5.00	mg/L		10/01/24 11:00	SM 2540 B-15
TSS	63.0		1	1.00	4.00	mg/L		10/03/24 10:00	SM 2540 D-15

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Report of Analysis

Client:	Chemtech Consulting Group	Date Collected:	09/03/24 10:00
Project:	NJ Waste Water PT	Date Received:	09/05/24
Client Sample ID:	PT-NUT1-WP	SDG No.:	P3848
Lab Sample ID:	P3848-11	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Ammonia as N	5.40	OR	1	0.045	0.10	mg/L	09/17/24 13:35	09/18/24 11:19	SM 4500-NH3 B plus G-11
Nitrite	0.011	U	1	0.011	0.60	mg/L		09/17/24 12:25	300.0
Nitrate	17.1	OR	1	0.0034	0.50	mg/L		09/17/24 12:25	300.0
Orthophosphate as P	5.30		1	0.079	1.00	mg/L		09/17/24 12:25	300.0

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Report of Analysis

Client:	Chemtech Consulting Group	Date Collected:	09/03/24 10:00
Project:	NJ Waste Water PT	Date Received:	09/05/24
Client Sample ID:	PT-NUT1-WPDL	SDG No.:	P3848
Lab Sample ID:	P3848-11DL	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Ammonia as N	5.30	D	5	0.23	0.50	mg/L	09/17/24 13:35	09/18/24 12:07	SM 4500-NH3 B plus G-11
Nitrate	15.6	D	5	0.017	2.50	mg/L		09/17/24 13:51	300.0

Comments:

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Report of Analysis

Client:	Chemtech Consulting Group	Date Collected:	09/03/24 10:00
Project:	NJ Waste Water PT	Date Received:	09/05/24
Client Sample ID:	PT-NUT1-WP	SDG No.:	P3848
Lab Sample ID:	P3848-12	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Nitrite	0.011	U	1	0.011	0.60	mg/L		09/17/24 12:25	9056A
Nitrate	17.1	OR	1	0.0034	0.50	mg/L		09/17/24 12:25	9056A
Orthophosphate as P	5.30		1	0.079	1.00	mg/L		09/17/24 12:25	9056A
Orthophosphate as P	2.30	OR	1	0.0040	0.050	mg/L		09/20/24 15:26	SM 4500-P E-11

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Report of Analysis

Client:	Chemtech Consulting Group	Date Collected:	09/03/24 10:00
Project:	NJ Waste Water PT	Date Received:	09/05/24
Client Sample ID:	PT-NUT1-WPDL	SDG No.:	P3848
Lab Sample ID:	P3848-12DL	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Nitrate	15.6	D	5	0.017	2.50	mg/L		09/17/24 13:51	9056A
Orthophosphate as P	5.60	D	5	0.40	5.00	mg/L		09/17/24 13:51	9056A
Orthophosphate as P	5.09	D	10	0.040	0.50	mg/L		09/20/24 15:29	SM 4500-P E-11

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
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H = Sample Analysis Out Of Hold Time

J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	Chemtech Consulting Group	Date Collected:	09/03/24 10:00
Project:	NJ Waste Water PT	Date Received:	09/05/24
Client Sample ID:	PT-NUT2-WP	SDG No.:	P3848
Lab Sample ID:	P3848-13	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Phosphorus, Total	1.13	OR	1	0.0050	0.050	mg/L	09/12/24 10:30	09/12/24 16:06	365.3
TKN	13.6	OR	1	0.18	0.50	mg/L	09/18/24 11:30	09/18/24 16:36	SM4500-N Org C-11 plus NH3 B plus G-11

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements
H = Sample Analysis Out Of Hold Time
J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

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Fax : 908 789 8922

Report of Analysis

Client:	Chemtech Consulting Group	Date Collected:	09/03/24 10:00
Project:	NJ Waste Water PT	Date Received:	09/05/24
Client Sample ID:	PT-NUT2-WPDL	SDG No.:	P3848
Lab Sample ID:	P3848-13DL	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Phosphorus, Total	2.18	D	5	0.024	0.25	mg/L	09/12/24 10:30	09/12/24 16:09	365.3
TKN	14.2	D	2	0.36	1.00	mg/L	09/18/24 11:30	09/18/24 17:17	SM4500-N Org C-11 plus NH3 B plus G-11

Comments:

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MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements
H = Sample Analysis Out Of Hold Time
J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

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Report of Analysis

Client:	Chemtech Consulting Group	Date Collected:	09/03/24 10:00
Project:	NJ Waste Water PT	Date Received:	09/05/24
Client Sample ID:	PT-NUT3-WP	SDG No.:	P3848
Lab Sample ID:	P3848-14	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Nitrite	1.40	OR	1	0.0018	0.012	mg/L		09/17/24 16:04	SM 4500-NO2 B-11

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements
H = Sample Analysis Out Of Hold Time
J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

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Fax : 908 789 8922

Report of Analysis

Client:	Chemtech Consulting Group	Date Collected:	09/03/24 10:00
Project:	NJ Waste Water PT	Date Received:	09/05/24
Client Sample ID:	PT-NUT3-WPDL	SDG No.:	P3848
Lab Sample ID:	P3848-14DL	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Nitrite	1.40	D	5	0.0090	0.060	mg/L		09/17/24 16:04	SM 4500-NO2 B-11

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements
H = Sample Analysis Out Of Hold Time
J = Estimated Value
B = Analyte Found in Associated Method Blank
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OR = Over Range
N =Spiked sample recovery not within control limits

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Fax : 908 789 8922

Report of Analysis

Client:	Chemtech Consulting Group	Date Collected:	09/03/24 10:00
Project:	NJ Waste Water PT	Date Received:	09/05/24
Client Sample ID:	PT-NUT3-WP	SDG No.:	P3848
Lab Sample ID:	P3848-15	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Nitrite	1.50		1	0.011	0.60	mg/L		09/17/24 12:46	300.0

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements
H = Sample Analysis Out Of Hold Time

J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

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Fax : 908 789 8922

Report of Analysis

Client:	Chemtech Consulting Group	Date Collected:	09/03/24 10:00
Project:	NJ Waste Water PT	Date Received:	09/05/24
Client Sample ID:	PT-NUT3-WP	SDG No.:	P3848
Lab Sample ID:	P3848-16	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Nitrite	1.50		1	0.011	0.60	mg/L		09/17/24 12:46	9056A

Comments:

U = Not Detected
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MDL = Method Detection Limit
LOD = Limit of Detection
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Q = indicates LCS control criteria did not meet requirements
H = Sample Analysis Out Of Hold Time
J = Estimated Value
B = Analyte Found in Associated Method Blank
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OR = Over Range
N =Spiked sample recovery not within control limits

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Report of Analysis

Client:	Chemtech Consulting Group	Date Collected:	09/03/24 10:00
Project:	NJ Waste Water PT	Date Received:	09/05/24
Client Sample ID:	PT-ORG1L-WP	SDG No.:	P3848
Lab Sample ID:	P3848-17	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Oil and Grease	61.4		1	0.40	5.00	mg/L		09/26/24 09:20	1664A

Comments:

U = Not Detected
LOQ = Limit of Quantitation
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LOD = Limit of Detection
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H = Sample Analysis Out Of Hold Time
J = Estimated Value
B = Analyte Found in Associated Method Blank
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N =Spiked sample recovery not within control limits

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Report of Analysis

Client:	Chemtech Consulting Group	Date Collected:	09/03/24 10:00
Project:	NJ Waste Water PT	Date Received:	09/05/24
Client Sample ID:	RR-TPH1L-WP	SDG No.:	P3848
Lab Sample ID:	P3848-18	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
TPH	130		1	0.40	5.00	mg/L		09/26/24 09:40	1664A

Comments:

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J = Estimated Value
B = Analyte Found in Associated Method Blank
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N =Spiked sample recovery not within control limits

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Report of Analysis

Client:	Chemtech Consulting Group	Date Collected:	09/03/24 10:00
Project:	NJ Waste Water PT	Date Received:	09/05/24
Client Sample ID:	PT-CL-WP	SDG No.:	P3848
Lab Sample ID:	P3848-19	Matrix:	Water
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Residual Chlorine	1.31		1	0.016	0.10	mg/L		09/16/24 16:36	SM 4500-Cl G-11

Comments:

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B = Analyte Found in Associated Method Blank
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Report of Analysis

Client:	Chemtech Consulting Group	Date Collected:	09/03/24 10:00
Project:	NJ Waste Water PT	Date Received:	09/05/24
Client Sample ID:	PT-PH-WP	SDG No.:	P3848
Lab Sample ID:	P3848-20	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
pH	5.37		1	0	0	pH		09/23/24 11:25	9040C

Comments: pH result reported at temperature 20.2 °C

U = Not Detected
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N =Spiked sample recovery not within control limits

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Report of Analysis

Client:	Chemtech Consulting Group	Date Collected:	09/03/24 10:00
Project:	NJ Waste Water PT	Date Received:	09/05/24
Client Sample ID:	PT-PH-WP	SDG No.:	P3848
Lab Sample ID:	P3848-21	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
pH	5.37		1	0	0	pH		09/23/24 11:25	SM 4500-H B-11

Comments: pH result reported at temperature 20.2 °C

U = Not Detected
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N =Spiked sample recovery not within control limits

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Report of Analysis

Client:	Chemtech Consulting Group	Date Collected:	09/03/24 10:00
Project:	NJ Waste Water PT	Date Received:	09/05/24
Client Sample ID:	PT-CN-WP	SDG No.:	P3848
Lab Sample ID:	P3848-22	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Cyanide	0.28		1	0.00093	0.0050	mg/L	09/24/24 11:00	09/24/24 15:09	SM 4500-CN C-16 plus E-16

Comments:

U = Not Detected
LOQ = Limit of Quantitation
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N =Spiked sample recovery not within control limits

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Report of Analysis

Client:	Chemtech Consulting Group	Date Collected:	09/03/24 10:00
Project:	NJ Waste Water PT	Date Received:	09/05/24
Client Sample ID:	PT-CN-WP	SDG No.:	P3848
Lab Sample ID:	P3848-23	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Cyanide	0.28		1	0.00099	0.0050	mg/L	09/24/24 11:00	09/25/24 11:48	9012B

Comments:

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J = Estimated Value
B = Analyte Found in Associated Method Blank
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OR = Over Range
N =Spiked sample recovery not within control limits

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Fax : 908 789 8922

Report of Analysis

Client:	Chemtech Consulting Group	Date Collected:	09/03/24 10:00
Project:	NJ Waste Water PT	Date Received:	09/05/24
Client Sample ID:	PT-CN-WP	SDG No.:	P3848
Lab Sample ID:	P3848-24	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Cyanide	0.28		1	0.0010	0.0050	mg/L	09/24/24 11:00	09/25/24 12:53	9014

Comments:

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B = Analyte Found in Associated Method Blank
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N =Spiked sample recovery not within control limits

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Report of Analysis

Client:	Chemtech Consulting Group	Date Collected:	09/03/24 10:00
Project:	NJ Waste Water PT	Date Received:	09/05/24
Client Sample ID:	PT-PHEN-WP	SDG No.:	P3848
Lab Sample ID:	P3848-25	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Phenolics	1.00		1	0.015	0.050	mg/L	09/19/24 10:10	09/19/24 17:01	9065

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
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H = Sample Analysis Out Of Hold Time
J = Estimated Value
B = Analyte Found in Associated Method Blank
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OR = Over Range
N =Spiked sample recovery not within control limits

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Report of Analysis

Client:	Chemtech Consulting Group	Date Collected:	09/03/24 10:00
Project:	NJ Waste Water PT	Date Received:	09/05/24
Client Sample ID:	PT-PHEN-WP	SDG No.:	P3848
Lab Sample ID:	P3848-26	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Phenolics	1.00		1	0.023	0.050	mg/L	09/19/24 08:45	09/19/24 15:56	420.1

Comments:

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LOD = Limit of Detection
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J = Estimated Value
B = Analyte Found in Associated Method Blank
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N =Spiked sample recovery not within control limits

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Report of Analysis

Client:	Chemtech Consulting Group	Date Collected:	09/03/24 10:00
Project:	NJ Waste Water PT	Date Received:	09/05/24
Client Sample ID:	PT-COL-WP	SDG No.:	P3848
Lab Sample ID:	P3848-27	Matrix:	Water
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Apparent Color	40.0		1	5.00	5.00	cu		09/13/24 15:05	SM 2120 B-11

Comments: Apparent color result reported at pH 1.54

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B = Analyte Found in Associated Method Blank
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OR = Over Range
N =Spiked sample recovery not within control limits

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Report of Analysis

Client:	Chemtech Consulting Group	Date Collected:	09/03/24 10:00
Project:	NJ Waste Water PT	Date Received:	09/05/24
Client Sample ID:	PT-S2-WP	SDG No.:	P3848
Lab Sample ID:	P3848-28	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Sulfide	2.88		1	0.26	1.00	mg/L	09/30/24 09:20	09/30/24 13:27	SM4500 S EorF

Comments:

U = Not Detected
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LOD = Limit of Detection
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H = Sample Analysis Out Of Hold Time
J = Estimated Value
B = Analyte Found in Associated Method Blank
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N =Spiked sample recovery not within control limits

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Report of Analysis

Client:	Chemtech Consulting Group	Date Collected:	09/03/24 10:00
Project:	NJ Waste Water PT	Date Received:	09/05/24
Client Sample ID:	PT-S2-WP	SDG No.:	P3848
Lab Sample ID:	P3848-29	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Sulfide	2.88		1	0.43	1.00	mg/L	09/30/24 09:20	09/30/24 13:06	9034

Comments:

U = Not Detected
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LOD = Limit of Detection
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H = Sample Analysis Out Of Hold Time
J = Estimated Value
B = Analyte Found in Associated Method Blank
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N =Spiked sample recovery not within control limits

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Report of Analysis

Client:	Chemtech Consulting Group	Date Collected:	09/03/24 10:00
Project:	NJ Waste Water PT	Date Received:	09/05/24
Client Sample ID:	PT-SSOL-WP	SDG No.:	P3848
Lab Sample ID:	P3848-30	Matrix:	Water
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Settleable Solids	6.50		1	0.50	0.50	ml/L		09/13/24 13:15	SM 2540 F-15

Comments:

U = Not Detected
LOQ = Limit of Quantitation
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LOD = Limit of Detection
D = Dilution
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H = Sample Analysis Out Of Hold Time
J = Estimated Value
B = Analyte Found in Associated Method Blank
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N =Spiked sample recovery not within control limits

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Report of Analysis

Client:	Chemtech Consulting Group	Date Collected:	09/03/24 10:00
Project:	NJ Waste Water PT	Date Received:	09/05/24
Client Sample ID:	PT-VSOL-WP	SDG No.:	P3848
Lab Sample ID:	P3848-31	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
TVS	372		1	1.00	10.0	mg/L		10/15/24 16:00	SM2540G

Comments:

U = Not Detected
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MDL = Method Detection Limit
LOD = Limit of Detection
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J = Estimated Value
B = Analyte Found in Associated Method Blank
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N =Spiked sample recovery not within control limits

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Fax : 908 789 8922

Report of Analysis

Client:	Chemtech Consulting Group	Date Collected:	09/03/24 10:00
Project:	NJ Waste Water PT	Date Received:	09/05/24
Client Sample ID:	PT-VSOL-WP	SDG No.:	P3848
Lab Sample ID:	P3848-32	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
TVS	372		1	1.00	10.0	mg/L		10/15/24 16:00	160.4

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
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H = Sample Analysis Out Of Hold Time

J = Estimated Value
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Fax : 908 789 8922

Report of Analysis

Client:	Chemtech Consulting Group	Date Collected:	09/03/24 10:00
Project:	NJ Waste Water PT	Date Received:	09/05/24
Client Sample ID:	PT-TURB-WP	SDG No.:	P3848
Lab Sample ID:	P3848-33	Matrix:	Water
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Turbidity	25.8		1	0.075	1.00	NTU		09/26/24 11:08	SM 2130 B-11

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements
H = Sample Analysis Out Of Hold Time
J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

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Report of Analysis

Client:	Chemtech Consulting Group	Date Collected:	09/03/24 10:00
Project:	NJ Waste Water PT	Date Received:	09/05/24
Client Sample ID:	PT-TURB-WP	SDG No.:	P3848
Lab Sample ID:	P3848-34	Matrix:	Water
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Turbidity	25.8		1	0.075	1.00	NTU		09/26/24 11:08	180.1

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements
H = Sample Analysis Out Of Hold Time

J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

QC RESULT SUMMARY

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Initial and Continuing Calibration Verification

Client:	Chemtech Consulting Group	**SDG No.:**	P3848
Project:	NJ Waste Water PT	**RunNo.:**	LB132300

Analyte	Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID: ICV						
Residual Chlorine	mg/L	0.406	0.4	102	90-110	09/16/2024
Sample ID: CCV1						
Residual Chlorine	mg/L	0.396	0.4	99	90-110	09/16/2024
Sample ID: CCV2						
Residual Chlorine	mg/L	0.386	0.4	96	90-110	09/16/2024

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Initial and Continuing Calibration Verification

Client:	Chemtech Consulting Group	**SDG No.:**	P3848
Project:	NJ Waste Water PT	**RunNo.:**	LB132412

Analyte	Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID: ICV						
Phosphorus, Total	mg/L	0.491	0.50	98	90-110	09/12/2024
Sample ID: CCV1						
Phosphorus, Total	mg/L	0.491	0.50	98	90-110	09/12/2024
Sample ID: CCV2						
Phosphorus, Total	mg/L	0.491	0.50	98	90-110	09/12/2024

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Initial and Continuing Calibration Verification

Client: Chemtech Consulting Group **SDG No.:** P3848

Project: NJ Waste Water PT **RunNo.:** LB132464

Analyte	Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID: ICV1						
Bromide	mg/L	9.8	10	98	90-110	09/16/2024
Chloride	mg/L	2.9	3	97	90-110	09/16/2024
Fluoride	mg/L	2	2	100	90-110	09/16/2024
Nitrite	mg/L	2.9	3	97	90-110	09/16/2024
Nitrate	mg/L	2.4	2.5	96	90-110	09/16/2024
Sulfate	mg/L	14.5	15	97	90-110	09/16/2024
Orthophosphate as P	mg/L	4.9	5	98	90-110	09/16/2024
Sample ID: CCV1						
Bromide	mg/L	10.4	10	104	90-110	09/17/2024
Chloride	mg/L	3.1	3	103	90-110	09/17/2024
Fluoride	mg/L	2.1	2	105	90-110	09/17/2024
Nitrite	mg/L	3.1	3	103	90-110	09/17/2024
Nitrate	mg/L	2.6	2.5	104	90-110	09/17/2024
Sulfate	mg/L	15.3	15	102	90-110	09/17/2024
Orthophosphate as P	mg/L	5.3	5	106	90-110	09/17/2024
Sample ID: CCV2						
Bromide	mg/L	10.4	10	104	90-110	09/17/2024
Chloride	mg/L	3.1	3	103	90-110	09/17/2024
Fluoride	mg/L	2.1	2	105	90-110	09/17/2024
Nitrite	mg/L	3.1	3	103	90-110	09/17/2024
Nitrate	mg/L	2.6	2.5	104	90-110	09/17/2024
Sulfate	mg/L	15.3	15	102	90-110	09/17/2024
Orthophosphate as P	mg/L	5.3	5	106	90-110	09/17/2024
Sample ID: CCV3						
Bromide	mg/L	10.4	10	104	90-110	09/17/2024
Chloride	mg/L	3.1	3	103	90-110	09/17/2024
Fluoride	mg/L	2.1	2	105	90-110	09/17/2024
Nitrite	mg/L	3.1	3	103	90-110	09/17/2024
Nitrate	mg/L	2.6	2.5	104	90-110	09/17/2024
Sulfate	mg/L	15.3	15	102	90-110	09/17/2024
Orthophosphate as P	mg/L	5.3	5	106	90-110	09/17/2024

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Initial and Continuing Calibration Verification

Client:	Chemtech Consulting Group	**SDG No.:**	P3848
Project:	NJ Waste Water PT	**RunNo.:**	LB132468

Analyte		Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID:	**ICV1**						
Nitrite		mg/L	0.3	0.3	100	90-110	09/17/2024
Sample ID:	**CCV1**						
Nitrite		mg/L	0.31	0.3	103	90-110	09/17/2024
Sample ID:	**CCV2**						
Nitrite		mg/L	0.3	0.3	100	90-110	09/17/2024

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Initial and Continuing Calibration Verification

Client:	Chemtech Consulting Group	**SDG No.:**	P3848
Project:	NJ Waste Water PT	**RunNo.:**	LB132470

Analyte	Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID: ICV						
Hexavalent Chromium	mg/L	0.498	0.5	100	90-110	09/17/2024
Sample ID: CCV1						
Hexavalent Chromium	mg/L	0.502	0.5	100	90-110	09/17/2024
Sample ID: CCV2						
Hexavalent Chromium	mg/L	0.499	0.5	100	90-110	09/17/2024

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Initial and Continuing Calibration Verification

Client:	Chemtech Consulting Group	**SDG No.:**	P3848
Project:	NJ Waste Water PT	**RunNo.:**	LB132486

Analyte		Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID:	**ICV1**						
Ammonia as N		mg/L	0.97	1	97	90-110	09/18/2024
Sample ID:	**CCV1**						
Ammonia as N		mg/L	0.94	1	94	90-110	09/18/2024
Sample ID:	**CCV2**						
Ammonia as N		mg/L	0.97	1	97	90-110	09/18/2024
Sample ID:	**CCV3**						
Ammonia as N		mg/L	0.91	1	91	90-110	09/18/2024

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Initial and Continuing Calibration Verification

Client: Chemtech Consulting Group **SDG No.:** P3848

Project: NJ Waste Water PT **RunNo.:** LB132492

Analyte	Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID: ICV1						
Bromide	mg/L	9.8	10	98	90-110	09/16/2024
Chloride	mg/L	2.9	3	97	90-110	09/16/2024
Fluoride	mg/L	2	2	100	90-110	09/16/2024
Nitrite	mg/L	2.9	3	97	90-110	09/16/2024
Nitrate	mg/L	2.4	2.5	96	90-110	09/16/2024
Sulfate	mg/L	14.5	15	97	90-110	09/16/2024
Orthophosphate as P	mg/L	4.9	5	98	90-110	09/16/2024
Sample ID: CCV1						
Bromide	mg/L	10.4	10	104	90-110	09/17/2024
Chloride	mg/L	3.1	3	103	90-110	09/17/2024
Fluoride	mg/L	2.1	2	105	90-110	09/17/2024
Nitrite	mg/L	3.1	3	103	90-110	09/17/2024
Nitrate	mg/L	2.6	2.5	104	90-110	09/17/2024
Sulfate	mg/L	15.3	15	102	90-110	09/17/2024
Orthophosphate as P	mg/L	5.3	5	106	90-110	09/17/2024
Sample ID: CCV2						
Bromide	mg/L	10.4	10	104	90-110	09/17/2024
Chloride	mg/L	3.1	3	103	90-110	09/17/2024
Fluoride	mg/L	2.1	2	105	90-110	09/17/2024
Nitrite	mg/L	3.1	3	103	90-110	09/17/2024
Nitrate	mg/L	2.6	2.5	104	90-110	09/17/2024
Sulfate	mg/L	15.3	15	102	90-110	09/17/2024
Orthophosphate as P	mg/L	5.3	5	106	90-110	09/17/2024

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Initial and Continuing Calibration Verification

Client:	Chemtech Consulting Group	**SDG No.:**	P3848
Project:	NJ Waste Water PT	**RunNo.:**	LB132507

Analyte		Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID:	**ICV1**						
TKN		mg/L	4.8	5	96	90-110	09/18/2024
Sample ID:	**CCV1**						
TKN		mg/L	4.9	5	98	90-110	09/18/2024
Sample ID:	**CCV2**						
TKN		mg/L	4.8	5	96	90-110	09/18/2024
Sample ID:	**CCV3**						
TKN		mg/L	4.7	5	94	90-110	09/18/2024

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Initial and Continuing Calibration Verification

Client:	Chemtech Consulting Group	**SDG No.:**	P3848
Project:	NJ Waste Water PT	**RunNo.:**	LB132508

Analyte		Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID:	**ICV**						
COD		mg/L	49.231	50	98	95-105	07/09/2024
Sample ID:	**CCV1**						
COD		mg/L	49.231	50	98	95-105	09/19/2024
Sample ID:	**CCV2**						
COD		mg/L	49.231	50	98	95-105	09/19/2024

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Initial and Continuing Calibration Verification

Client:	Chemtech Consulting Group	**SDG No.:**	P3848
Project:	NJ Waste Water PT	**RunNo.:**	LB132513

Analyte		Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID:	**ICV1**						
Phenolics		mg/L	1	1	100	90-110	09/19/2024
Sample ID:	**CCV1**						
Phenolics		mg/L	1	1	100	90-110	09/19/2024
Sample ID:	**CCV2**						
Phenolics		mg/L	1	1	100	90-110	09/19/2024

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Initial and Continuing Calibration Verification

Client:	Chemtech Consulting Group	**SDG No.:**	P3848
Project:	NJ Waste Water PT	**RunNo.:**	LB132515

Analyte		Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID:	**ICV1**						
Phenolics		mg/L	1	1	100	90-110	09/19/2024
Sample ID:	**CCV1**						
Phenolics		mg/L	1	1	100	90-110	09/19/2024
Sample ID:	**CCV2**						
Phenolics		mg/L	1	1	100	90-110	09/19/2024

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Initial and Continuing Calibration Verification

Client:	Chemtech Consulting Group	**SDG No.:**	P3848
Project:	NJ Waste Water PT	**RunNo.:**	LB132528

Analyte		Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID:	**ICV**						
Sulfate		mg/L	19.253	20	96	90-110	09/20/2024
Sample ID:	**CCV1**						
Sulfate		mg/L	21.187	20	106	90-110	09/20/2024
Sample ID:	**CCV2**						
Sulfate		mg/L	21.097	20	105	90-110	09/20/2024

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Initial and Continuing Calibration Verification

Client:	Chemtech Consulting Group	**SDG No.:**	P3848
Project:	NJ Waste Water PT	**RunNo.:**	LB132529

Analyte		Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID:	**ICV**						
Sulfate		mg/L	19.329	20	97	90-110	09/20/2024
Sample ID:	**CCV1**						
Sulfate		mg/L	21.374	20	107	90-110	09/20/2024
Sample ID:	**CCV2**						
Sulfate		mg/L	21.284	20	106	90-110	09/20/2024

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Initial and Continuing Calibration Verification

Client:	Chemtech Consulting Group	**SDG No.:**	P3848
Project:	NJ Waste Water PT	**RunNo.:**	LB132534

Analyte	Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID: **ICV**						
Orthophosphate as P	mg/L	0.497	0.50	99	90-110	09/20/2024
Sample ID: **CCV1**						
Orthophosphate as P	mg/L	0.502	0.5	100	90-110	09/20/2024
Sample ID: **CCV2**						
Orthophosphate as P	mg/L	0.497	0.5	99	90-110	09/20/2024

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Initial and Continuing Calibration Verification

Client:	Chemtech Consulting Group	**SDG No.:**	P3848
Project:	NJ Waste Water PT	**RunNo.:**	LB132548

Analyte	Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID: **ICV**						
pH	pH	7.00	7	100	90-110	09/23/2024
Sample ID: **CCV1**						
pH	pH	2.01	2.00	101	90-110	09/23/2024
Sample ID: **CCV2**						
pH	pH	12.02	12.00	100	90-110	09/23/2024

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Initial and Continuing Calibration Verification

Client:	Chemtech Consulting Group	**SDG No.:**	P3848
Project:	NJ Waste Water PT	**RunNo.:**	LB132549

Analyte	Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID: **ICV**						
pH	pH	7.00	7	100	90-110	09/23/2024
Sample ID: **CCV1**						
pH	pH	2.01	2.00	101	90-110	09/23/2024
Sample ID: **CCV2**						
pH	pH	12.02	12.00	100	90-110	09/23/2024

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Initial and Continuing Calibration Verification

Client:	Chemtech Consulting Group	**SDG No.:**	P3848
Project:	NJ Waste Water PT	**RunNo.:**	LB132576

Analyte	Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID: ICV						
Hexavalent Chromium	mg/L	0.510	0.5	102	95-105	09/24/2024
Sample ID: CCV1						
Hexavalent Chromium	mg/L	0.499	0.5	100	90-110	09/24/2024
Sample ID: CCV2						
Hexavalent Chromium	mg/L	0.500	0.5	100	90-110	09/24/2024

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Initial and Continuing Calibration Verification

Client:	Chemtech Consulting Group	**SDG No.:**	P3848
Project:	NJ Waste Water PT	**RunNo.:**	LB132583

Analyte		Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID:	**ICV1**						
Cyanide		mg/L	0.098	0.099	99	85-115	09/24/2024
Sample ID:	**CCV1**						
Cyanide		mg/L	0.24	0.25	96	90-110	09/24/2024
Sample ID:	**CCV2**						
Cyanide		mg/L	0.25	0.25	100	90-110	09/24/2024

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Initial and Continuing Calibration Verification

Client:	Chemtech Consulting Group	**SDG No.:**	P3848
Project:	NJ Waste Water PT	**RunNo.:**	LB132590

Analyte		Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID:	**ICV1**						
Cyanide		mg/L	0.097	0.099	98	90-110	09/25/2024
Sample ID:	**CCV1**						
Cyanide		mg/L	0.24	0.25	96	90-110	09/25/2024
Sample ID:	**CCV2**						
Cyanide		mg/L	0.24	0.25	96	90-110	09/25/2024

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Initial and Continuing Calibration Verification

Client:	Chemtech Consulting Group	**SDG No.:**	P3848
Project:	NJ Waste Water PT	**RunNo.:**	LB132591

Analyte		Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID:	**ICV1**						
Cyanide		mg/L	0.097	0.099	98	90-110	09/25/2024
Sample ID:	**CCV1**						
Cyanide		mg/L	0.24	0.25	96	90-110	09/25/2024
Sample ID:	**CCV2**						
Cyanide		mg/L	0.24	0.25	96	90-110	09/25/2024

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Initial and Continuing Calibration Verification

Client:	Chemtech Consulting Group	**SDG No.:**	P3848
Project:	NJ Waste Water PT	**RunNo.:**	LB132606

Analyte		Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID:	**ICV1**						
TOC		mg/L	10.2	10	102	90-110	09/25/2024
Sample ID:	**CCV1**						
TOC		mg/L	9.8	10	98	90-110	09/26/2024
Sample ID:	**CCV2**						
TOC		mg/L	9.6	10	96	90-110	09/26/2024
Sample ID:	**CCV3**						
TOC		mg/L	10.6	10	106	90-110	09/26/2024

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Initial and Continuing Calibration Verification

Client:	Chemtech Consulting Group	**SDG No.:**	P3848
Project:	NJ Waste Water PT	**RunNo.:**	LB132624

Analyte		Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID:	**ICV**						
Turbidity		NTU	9.533	10	95	90-110	09/26/2024
Sample ID:	**CCV1**						
Turbidity		NTU	9.437	10	94	90-110	09/26/2024
Sample ID:	**CCV2**						
Turbidity		NTU	9.843	10	98	90-110	09/26/2024

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Initial and Continuing Calibration Verification

Client:	Chemtech Consulting Group	**SDG No.:**	P3848
Project:	NJ Waste Water PT	**RunNo.:**	LB132641

Analyte		Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID:	**ICV1**						
TOC		mg/L	10.2	10	102	90-110	09/25/2024
Sample ID:	**CCV1**						
TOC		mg/L	1.2	1	102	90-110	09/26/2024
Sample ID:	**CCV2**						
TOC		mg/L	9.6	10	96	90-110	09/26/2024

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Initial and Continuing Calibration Verification

Client:	Chemtech Consulting Group	**SDG No.:**	P3848
Project:	NJ Waste Water PT	**RunNo.:**	LB132660

Analyte		Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID:	**ICV**						
Turbidity		NTU	9.533	10	95	90-110	09/26/2024
Sample ID:	**CCV1**						
Turbidity		NTU	9.437	10	94	90-110	09/26/2024
Sample ID:	**CCV2**						
Turbidity		NTU	9.949	10	100	90-110	09/26/2024

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Initial and Continuing Calibration Blank Summary

Client:	Chemtech Consulting Group	**SDG No.:**	P3848
Project:	NJ Waste Water PT	**RunNo.:**	LB132300

Analyte	Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID: ICB							
Residual Chlorine	mg/L	< 0.0500	0.0500	U	0.016	0.1	09/16/2024
Sample ID: CCB1							
Residual Chlorine	mg/L	< 0.0500	0.0500	U	0.016	0.1	09/16/2024
Sample ID: CCB2							
Residual Chlorine	mg/L	< 0.0500	0.0500	U	0.016	0.1	09/16/2024

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Initial and Continuing Calibration Blank Summary

Client:	Chemtech Consulting Group	**SDG No.:**	P3848
Project:	NJ Waste Water PT	**RunNo.:**	LB132412

Analyte	Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID: ICB							
Phosphorus, Total	mg/L	0.007	0.0250	J	0.0047	0.05	09/12/2024
Sample ID: CCB1							
Phosphorus, Total	mg/L	0.007	0.0250	J	0.0047	0.05	09/12/2024
Sample ID: CCB2							
Phosphorus, Total	mg/L	0.007	0.0250	J	0.0047	0.05	09/12/2024

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Initial and Continuing Calibration Blank Summary

Client: Chemtech Consulting Group **SDG No.:** P3848

Project: NJ Waste Water PT **RunNo.:** LB132464

Analyte	Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID: ICB1							
Bromide	mg/L	< 1.0000	1.0000	U	0.034	2	09/16/2024
Chloride	mg/L	< 0.3000	0.3000	U	0.011	0.6	09/16/2024
Fluoride	mg/L	< 0.2000	0.2000	U	0.057	0.4	09/16/2024
Nitrite	mg/L	< 0.3000	0.3000	U	0.011	0.6	09/16/2024
Nitrate	mg/L	< 0.2500	0.2500	U	0.0034	0.5	09/16/2024
Sulfate	mg/L	< 1.5000	1.5000	U	0.032	3	09/16/2024
Orthophosphate as P	mg/L	< 0.5000	0.5000	U	0.079	1	09/16/2024
Sample ID: CCB1							
Bromide	mg/L	< 1.0000	1.0000	U	0.034	2	09/17/2024
Chloride	mg/L	< 0.3000	0.3000	U	0.011	0.6	09/17/2024
Fluoride	mg/L	< 0.2000	0.2000	U	0.057	0.4	09/17/2024
Nitrite	mg/L	< 0.3000	0.3000	U	0.011	0.6	09/17/2024
Nitrate	mg/L	< 0.2500	0.2500	U	0.0034	0.5	09/17/2024
Sulfate	mg/L	< 1.5000	1.5000	U	0.032	3	09/17/2024
Orthophosphate as P	mg/L	< 0.5000	0.5000	U	0.079	1	09/17/2024
Sample ID: CCB2							
Bromide	mg/L	< 1.0000	1.0000	U	0.034	2	09/17/2024
Chloride	mg/L	< 0.3000	0.3000	U	0.011	0.6	09/17/2024
Fluoride	mg/L	< 0.2000	0.2000	U	0.057	0.4	09/17/2024
Nitrite	mg/L	< 0.3000	0.3000	U	0.011	0.6	09/17/2024
Nitrate	mg/L	< 0.2500	0.2500	U	0.0034	0.5	09/17/2024
Sulfate	mg/L	< 1.5000	1.5000	U	0.032	3	09/17/2024
Orthophosphate as P	mg/L	< 0.5000	0.5000	U	0.079	1	09/17/2024
Sample ID: CCB3							
Bromide	mg/L	< 1.0000	1.0000	U	0.034	2	09/17/2024
Chloride	mg/L	< 0.3000	0.3000	U	0.011	0.6	09/17/2024
Fluoride	mg/L	< 0.2000	0.2000	U	0.057	0.4	09/17/2024
Nitrite	mg/L	< 0.3000	0.3000	U	0.011	0.6	09/17/2024
Nitrate	mg/L	< 0.2500	0.2500	U	0.0034	0.5	09/17/2024
Sulfate	mg/L	< 1.5000	1.5000	U	0.032	3	09/17/2024
Orthophosphate as P	mg/L	< 0.5000	0.5000	U	0.079	1	09/17/2024

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Initial and Continuing Calibration Blank Summary

Client:	Chemtech Consulting Group	**SDG No.:**	P3848
Project:	NJ Waste Water PT	**RunNo.:**	LB132468

Analyte		Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID:	ICB1							
Nitrite		mg/L	< 0.0060	0.0060	U	0.0018	0.012	09/17/2024
Sample ID:	CCB1							
Nitrite		mg/L	< 0.0060	0.0060	U	0.0018	0.012	09/17/2024
Sample ID:	CCB2							
Nitrite		mg/L	< 0.0060	0.0060	U	0.0018	0.012	09/17/2024

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Initial and Continuing Calibration Blank Summary

Client:	Chemtech Consulting Group	**SDG No.:**	P3848
Project:	NJ Waste Water PT	**RunNo.:**	LB132470

Analyte	Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID: ICB							
Hexavalent Chromium	mg/L	< 0.0050	0.0050	U	0.0027	0.01	09/17/2024
Sample ID: CCB1							
Hexavalent Chromium	mg/L	< 0.0050	0.0050	U	0.0027	0.01	09/17/2024
Sample ID: CCB2							
Hexavalent Chromium	mg/L	< 0.0050	0.0050	U	0.0027	0.01	09/17/2024

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Initial and Continuing Calibration Blank Summary

Client:	Chemtech Consulting Group	**SDG No.:**	P3848
Project:	NJ Waste Water PT	**RunNo.:**	LB132486

Analyte	Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID: ICB1							
Ammonia as N	mg/L	< 0.0500	0.0500	U	0.045	0.1	09/18/2024
Sample ID: CCB1							
Ammonia as N	mg/L	< 0.0500	0.0500	U	0.045	0.1	09/18/2024
Sample ID: CCB2							
Ammonia as N	mg/L	< 0.0500	0.0500	U	0.045	0.1	09/18/2024
Sample ID: CCB3							
Ammonia as N	mg/L	< 0.0500	0.0500	U	0.045	0.1	09/18/2024

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Initial and Continuing Calibration Blank Summary

Client: Chemtech Consulting Group **SDG No.:** P3848

Project: NJ Waste Water PT **RunNo.:** LB132492

Analyte	Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID: ICB1							
Bromide	mg/L	< 1.0000	1.0000	U	0.034	2	09/16/2024
Chloride	mg/L	< 0.3000	0.3000	U	0.011	0.6	09/16/2024
Fluoride	mg/L	< 0.2000	0.2000	U	0.057	0.4	09/16/2024
Nitrite	mg/L	< 0.3000	0.3000	U	0.011	0.6	09/16/2024
Nitrate	mg/L	< 0.2500	0.2500	U	0.0034	0.5	09/16/2024
Sulfate	mg/L	< 1.5000	1.5000	U	0.032	3	09/16/2024
Orthophosphate as P	mg/L	< 0.5000	0.5000	U	0.079	1	09/16/2024
Sample ID: CCB1							
Bromide	mg/L	< 1.0000	1.0000	U	0.034	2	09/17/2024
Chloride	mg/L	< 0.3000	0.3000	U	0.011	0.6	09/17/2024
Fluoride	mg/L	< 0.2000	0.2000	U	0.057	0.4	09/17/2024
Nitrite	mg/L	< 0.3000	0.3000	U	0.011	0.6	09/17/2024
Nitrate	mg/L	< 0.2500	0.2500	U	0.0034	0.5	09/17/2024
Sulfate	mg/L	< 1.5000	1.5000	U	0.032	3	09/17/2024
Orthophosphate as P	mg/L	< 0.5000	0.5000	U	0.079	1	09/17/2024
Sample ID: CCB2							
Bromide	mg/L	< 1.0000	1.0000	U	0.034	2	09/17/2024
Chloride	mg/L	< 0.3000	0.3000	U	0.011	0.6	09/17/2024
Fluoride	mg/L	< 0.2000	0.2000	U	0.057	0.4	09/17/2024
Nitrite	mg/L	< 0.3000	0.3000	U	0.011	0.6	09/17/2024
Nitrate	mg/L	< 0.2500	0.2500	U	0.0034	0.5	09/17/2024
Sulfate	mg/L	< 1.5000	1.5000	U	0.032	3	09/17/2024
Orthophosphate as P	mg/L	< 0.5000	0.5000	U	0.079	1	09/17/2024

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Initial and Continuing Calibration Blank Summary

Client:	Chemtech Consulting Group	**SDG No.:**	P3848
Project:	NJ Waste Water PT	**RunNo.:**	LB132507

Analyte		Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID:	ICB1							
TKN		mg/L	< 0.2500	0.2500	U	0.18	0.5	09/18/2024
Sample ID:	CCB1							
TKN		mg/L	< 0.2500	0.2500	U	0.18	0.5	09/18/2024
Sample ID:	CCB2							
TKN		mg/L	< 0.2500	0.2500	U	0.18	0.5	09/18/2024
Sample ID:	CCB3							
TKN		mg/L	< 0.2500	0.2500	U	0.18	0.5	09/18/2024

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Initial and Continuing Calibration Blank Summary

Client:	Chemtech Consulting Group	**SDG No.:**	P3848
Project:	NJ Waste Water PT	**RunNo.:**	LB132508

Analyte		Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID:	**ICB**							
COD		mg/L	< 5.0000	5.0000	U	2.35	10	07/09/2024
Sample ID:	**CCB1**							
COD		mg/L	< 5.0000	5.0000	U	2.35	10	09/19/2024
Sample ID:	**CCB2**							
COD		mg/L	< 5.0000	5.0000	U	2.35	10	09/19/2024

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Initial and Continuing Calibration Blank Summary

Client:	Chemtech Consulting Group	**SDG No.:**	P3848
Project:	NJ Waste Water PT	**RunNo.:**	LB132513

Analyte		Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID:	ICB1							
Phenolics		mg/L	< 0.0250	0.0250	U	0.023	0.05	09/19/2024
Sample ID:	CCB1							
Phenolics		mg/L	< 0.0250	0.0250	U	0.023	0.05	09/19/2024
Sample ID:	CCB2							
Phenolics		mg/L	< 0.0250	0.0250	U	0.023	0.05	09/19/2024

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Initial and Continuing Calibration Blank Summary

Client:	Chemtech Consulting Group	**SDG No.:**	P3848
Project:	NJ Waste Water PT	**RunNo.:**	LB132515

Analyte		Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID:	ICB1							
Phenolics		mg/L	< 0.0250	0.0250	U	0.015	0.05	09/19/2024
Sample ID:	CCB1							
Phenolics		mg/L	< 0.0250	0.0250	U	0.015	0.05	09/19/2024
Sample ID:	CCB2							
Phenolics		mg/L	< 0.0250	0.0250	U	0.015	0.05	09/19/2024

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Initial and Continuing Calibration Blank Summary

Client:	Chemtech Consulting Group	**SDG No.:**	P3848
Project:	NJ Waste Water PT	**RunNo.:**	LB132528

Analyte		Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID:	ICB							
Sulfate		mg/L	1.482	2.5000	J	0.73	5	09/20/2024
Sample ID:	CCB1							
Sulfate		mg/L	1.480	2.5000	J	0.73	5	09/20/2024
Sample ID:	CCB2							
Sulfate		mg/L	1.481	2.5000	J	0.73	5	09/20/2024

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Initial and Continuing Calibration Blank Summary

Client:	Chemtech Consulting Group	**SDG No.:**	P3848
Project:	NJ Waste Water PT	**RunNo.:**	LB132529

Analyte		Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID:	ICB							
Sulfate		mg/L	1.432	2.5000	J	0.41	5	09/20/2024
Sample ID:	CCB1							
Sulfate		mg/L	1.432	2.5000	J	0.41	5	09/20/2024
Sample ID:	CCB2							
Sulfate		mg/L	1.426	2.5000	J	0.41	5	09/20/2024

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Initial and Continuing Calibration Blank Summary

Client:	Chemtech Consulting Group	**SDG No.:**	P3848
Project:	NJ Waste Water PT	**RunNo.:**	LB132534

Analyte	Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID: ICB							
Orthophosphate as P	mg/L	< 0.0250	0.0250	U	0.0040	0.05	09/20/2024
Sample ID: CCB1							
Orthophosphate as P	mg/L	< 0.0250	0.0250	U	0.0040	0.05	09/20/2024
Sample ID: CCB2							
Orthophosphate as P	mg/L	< 0.0250	0.0250	U	0.0040	0.05	09/20/2024

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Initial and Continuing Calibration Blank Summary

Client:	Chemtech Consulting Group	**SDG No.:**	P3848
Project:	NJ Waste Water PT	**RunNo.:**	LB132576

Analyte	Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID: ICB							
Hexavalent Chromium	mg/L	< 0.0050	0.0050	U	0.0021	0.01	09/24/2024
Sample ID: CCB1							
Hexavalent Chromium	mg/L	< 0.0050	0.0050	U	0.0021	0.01	09/24/2024
Sample ID: CCB2							
Hexavalent Chromium	mg/L	< 0.0050	0.0050	U	0.0021	0.01	09/24/2024

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Initial and Continuing Calibration Blank Summary

Client:	Chemtech Consulting Group	**SDG No.:**	P3848
Project:	NJ Waste Water PT	**RunNo.:**	LB132583

Analyte		Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID:	ICB1							
Cyanide		mg/L	< 0.0025	0.0025	U	0.00093	0.005	09/24/2024
Sample ID:	CCB1							
Cyanide		mg/L	< 0.0025	0.0025	U	0.00093	0.005	09/24/2024
Sample ID:	CCB2							
Cyanide		mg/L	0.001	0.0025	J	0.00093	0.005	09/24/2024

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Initial and Continuing Calibration Blank Summary

Client:	Chemtech Consulting Group	**SDG No.:**	P3848
Project:	NJ Waste Water PT	**RunNo.:**	LB132590

Analyte		Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID:	ICB1							
Cyanide		mg/L	< 0.0025	0.0025	U	0.00099	0.005	09/25/2024
Sample ID:	CCB1							
Cyanide		mg/L	< 0.0025	0.0025	U	0.00099	0.005	09/25/2024
Sample ID:	CCB2							
Cyanide		mg/L	< 0.0025	0.0025	U	0.00099	0.005	09/25/2024

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Initial and Continuing Calibration Blank Summary

Client:	Chemtech Consulting Group	**SDG No.:**	P3848
Project:	NJ Waste Water PT	**RunNo.:**	LB132591

Analyte		Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID:	ICB1							
Cyanide		mg/L	< 0.0025	0.0025	U	0.0010	0.005	09/25/2024
Sample ID:	CCB1							
Cyanide		mg/L	< 0.0025	0.0025	U	0.0010	0.005	09/25/2024
Sample ID:	CCB2							
Cyanide		mg/L	< 0.0025	0.0025	U	0.0010	0.005	09/25/2024

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Initial and Continuing Calibration Blank Summary

Client:	Chemtech Consulting Group	**SDG No.:**	P3848
Project:	NJ Waste Water PT	**RunNo.:**	LB132606

Analyte		Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID:	ICB1							
TOC		mg/L	< 0.5000	0.5000	U	0.19	1	09/25/2024
Sample ID:	CCB1							
TOC		mg/L	< 0.5000	0.5000	U	0.19	1	09/26/2024
Sample ID:	CCB2							
TOC		mg/L	< 0.5000	0.5000	U	0.19	1	09/26/2024
Sample ID:	CCB3							
TOC		mg/L	< 0.5000	0.5000	U	0.19	1	09/26/2024

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Initial and Continuing Calibration Blank Summary

Client:	Chemtech Consulting Group	**SDG No.:**	P3848
Project:	NJ Waste Water PT	**RunNo.:**	LB132624

Analyte		Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID:	ICB							
Turbidity		NTU	0.173	0.5000	J	0.075	1.0	09/26/2024
Sample ID:	CCB1							
Turbidity		NTU	0.167	0.5000	J	0.075	1	09/26/2024
Sample ID:	CCB2							
Turbidity		NTU	0.168	0.5000	J	0.075	1	09/26/2024

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Initial and Continuing Calibration Blank Summary

Client:	Chemtech Consulting Group	**SDG No.:**	P3848
Project:	NJ Waste Water PT	**RunNo.:**	LB132641

Analyte		Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID:	ICB1							
TOC		mg/L	< 0.5000	0.5000	U	0.19	1	09/25/2024
Sample ID:	CCB1							
TOC		mg/L	< 0.5000	0.5000	U	0.19	1	09/26/2024
Sample ID:	CCB2							
TOC		mg/L	< 0.5000	0.5000	U	0.19	1	09/26/2024

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Initial and Continuing Calibration Blank Summary

Client:	Chemtech Consulting Group	**SDG No.:**	P3848
Project:	NJ Waste Water PT	**RunNo.:**	LB132660

Analyte		Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID:	ICB							
Turbidity		NTU	0.173	0.5000	J	0.075	1.0	09/26/2024
Sample ID:	CCB1							
Turbidity		NTU	0.167	0.5000	J	0.075	1	09/26/2024
Sample ID:	CCB2							
Turbidity		NTU	0.166	0.5000	J	0.075	1	09/26/2024

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Preparation Blank Summary

Client: Chemtech Consulting Group **SDG No.:** P3848

Project: NJ Waste Water PT

Analyte	Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID: **LB132300BL**							
Residual Chlorine	mg/L	< 0.0500	0.0500	U	0.016	0.1	09/16/2024
Sample ID: **LB132394BL**							
CBOD5	mg/L	< 0.2000	0.2000	U	0.17	2.0	09/12/2024
Sample ID: **LB132404BL**							
BOD5	mg/L	< 0.2000	0.2000	U	0.17	2.0	09/12/2024
Sample ID: **LB132418BL**							
Conductance	umho/cm	0.96	1.0000	J	0.91	2.0	09/13/2024
Sample ID: **LB132419BL**							
Conductance	umho/cm	0.96	1.0000	J	0.91	2.0	09/13/2024
Sample ID: **LB132420BL**							
Conductance	umho/cm	0.96	1.0000	J	0.91	2.0	09/13/2024
Sample ID: **LB132434BL**							
Apparent Color	cu	< 2.5000	2.5000	U	5.0	5.0	09/13/2024
Sample ID: **LB132464BLW**							
Bromide	mg/L	< 1.0000	1.0000	U	0.034	2	09/17/2024
Chloride	mg/L	< 0.3000	0.3000	U	0.011	0.6	09/17/2024
Fluoride	mg/L	< 0.2000	0.2000	U	0.057	0.4	09/17/2024
Nitrite	mg/L	< 0.3000	0.3000	U	0.011	0.6	09/17/2024
Nitrate	mg/L	< 0.2500	0.2500	U	0.0034	0.5	09/17/2024
Sulfate	mg/L	< 1.5000	1.5000	U	0.032	3	09/17/2024
Orthophosphate as P	mg/L	< 0.5000	0.5000	U	0.079	1	09/17/2024
Sample ID: **LB132468BLW**							
Nitrite	mg/L	< 0.0060	0.0060	U	0.0018	0.012	09/17/2024
Sample ID: **LB132470BL**							
Hexavalent Chromium	mg/L	< 0.0050	0.0050	U	0.003	0.01	09/17/2024
Sample ID: **LB132485BL**							
Chloride	mg/L	< 2.5000	2.5000	U	1.27	5.0	09/18/2024
Sample ID: **LB132487BLW**							
Alkalinity	mg/L	< 1.0000	1.0000	U	1	2	09/19/2024
Sample ID: **LB132492BLW**							
Bromide	mg/L	< 1.0000	1.0000	U	0.034	2	09/17/2024
Chloride	mg/L	< 0.3000	0.3000	U	0.011	0.6	09/17/2024
Fluoride	mg/L	< 0.2000	0.2000	U	0.057	0.4	09/17/2024
Nitrite	mg/L	< 0.3000	0.3000	U	0.011	0.6	09/17/2024
Nitrate	mg/L	< 0.2500	0.2500	U	0.0034	0.5	09/17/2024
Sulfate	mg/L	< 1.5000	1.5000	U	0.032	3	09/17/2024
Orthophosphate as P	mg/L	< 0.5000	0.5000	U	0.079	1	09/17/2024
Sample ID: **LB132508BL**							
COD	mg/L	< 5.0000	5.0000	U	2.35	10.0	09/19/2024
Sample ID: **LB132528BL**							
Sulfate	mg/L	1.48	2.5000	J	0.734	5.0	09/20/2024
Sample ID: **LB132529BL**							

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Preparation Blank Summary

Client: Chemtech Consulting Group **SDG No.:** P3848

Project: NJ Waste Water PT

Analyte	Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sulfate	mg/L	1.43	2.5000	J	0.41	5.0	09/20/2024
Sample ID: LB132534BL							
Orthophosphate as P	mg/L	< 0.0250	0.0250	U	0.004	0.05	09/20/2024
Sample ID: LB132576BL							
Hexavalent Chromium	mg/L	< 0.0050	0.0050	U	0.002	0.01	09/24/2024
Sample ID: LB132606BLW							
TOC	mg/L	< 0.5000	0.5000	U	0.19	1	09/26/2024
Sample ID: LB132610BL							
Oil and Grease	mg/L	< 2.5000	2.5000	U	0.4	5.0	09/26/2024
Sample ID: LB132611BL							
TPH	mg/L	< 2.5000	2.5000	U	0.4	5.0	09/26/2024
Sample ID: LB132624BL							
Turbidity	NTU	0.164	0.5000	J	0.075	1.0	09/26/2024
Sample ID: LB132641BLW							
TOC	mg/L	< 0.5000	0.5000	U	0.19	1	09/26/2024
Sample ID: LB132660BL							
Turbidity	NTU	0.164	0.5000	J	0.075	1.0	09/26/2024
Sample ID: LB132686BL							
TS	mg/L	< 2.5000	2.5000	U	1	5	10/01/2024
Sample ID: LB132691BL							
TDS	mg/L	< 5.0000	5.0000	U	1.0	10	10/01/2024
Sample ID: LB132725BL							
TSS	mg/L	< 2.0000	2.0000	U	1	4	10/03/2024
Sample ID: LB132943BL							
TVS	mg/L	< 5.0000	5.0000	U	1	10	10/15/2024
Sample ID: LB132944BL							
TVS	mg/L	< 5.0000	5.0000	U	1	10	10/15/2024
Sample ID: PB163343BL							
Phosphorus, Total	mg/L	0.007	0.0250	J	0.005	0.05	09/12/2024
Sample ID: PB163389BL							
TKN	mg/L	< 0.2500	0.2500	U	0.18	0.5	09/18/2024
Sample ID: PB163449BL							
Phenolics	mg/L	< 0.0250	0.0250	U	0.023	0.05	09/19/2024
Sample ID: PB163450BL							
Phenolics	mg/L	< 0.0250	0.0250	U	0.015	0.05	09/19/2024
Sample ID: PB163477BL							
Ammonia as N	mg/L	< 0.0500	0.0500	U	0.045	0.1	09/18/2024
Sample ID: PB163628BL							
Cyanide	mg/L	< 0.0025	0.0025	U	0.00099	0.005	09/25/2024
Sample ID: PB163632BL							

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Preparation Blank Summary

Client: Chemtech Consulting Group **SDG No.:** P3848

Project: NJ Waste Water PT

Analyte	Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Cyanide	mg/L	< 0.0025	0.0025	U	0.00093	0.005	09/24/2024
Sample ID: PB163640BL							
Cyanide	mg/L	< 0.0025	0.0025	U	0.001	0.005	09/25/2024
Sample ID: PB163761BL							
Sulfide	mg/L	< 0.5000	0.5000	U	0.43	1.0	09/30/2024
Sample ID: PB163762BL							
Sulfide	mg/L	< 0.5000	0.5000	U	0.26	1.0	09/30/2024

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Matrix Spike Summary

Client: Chemtech Consulting Group
SDG No.: P3848
Project: NJ Waste Water PT
Sample ID: P3940-01
Client ID: AST-2024-4036-PRIMMS
Percent Solids for Spike Sample: 0

Analyte	Units	Acceptance Limit %R	Spiked Result	Conc. Qualifier	Sample Result	Conc. Qualifier	Spike Added	Dilution Factor	% Rec	Qual	Analysis Date
Phosphorus, Total	mg/L	90-110	0.55		0.092		0.5	1	92		09/12/2024
Phenolics	mg/L	75-125	1.00		0.023	J	1	1	98		09/19/2024

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Matrix Spike Summary

Client: Chemtech Consulting Group
SDG No.: P3848
Project: NJ Waste Water PT
Sample ID: P3940-01
Client ID: AST-2024-4036-PRIMMSD
Percent Solids for Spike Sample: 0

Analyte	Units	Acceptance Limit %R	Spiked Result	Conc. Qualifier	Sample Result	Conc. Qualifier	Spike Added	Dilution Factor	% Rec	Qual	Analysis Date
Phosphorus, Total	mg/L	90-110	0.55		0.092		0.5	1	92		09/12/2024
Phenolics	mg/L	75-125	1.00		0.023	J	1	1	98		09/19/2024

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Matrix Spike Summary

Client: Chemtech Consulting Group
SDG No.: P3848
Project: NJ Waste Water PT
Sample ID: P3965-02
Client ID: EFF-DAY-1-1-4CNMS
Percent Solids for Spike Sample: 0

Analyte	Units	Acceptance Limit %R	Spiked Result	Conc. Qualifier	Sample Result	Conc. Qualifier	Spike Added	Dilution Factor	% Rec	Qual	Analysis Date
Cyanide	mg/L	75-125	0.036		0.00099	J	0.04	1	88		09/24/2024

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Matrix Spike Summary

Client: Chemtech Consulting Group
SDG No.: P3848
Project: NJ Waste Water PT
Sample ID: P3965-02
Client ID: EFF-DAY-1-1-4CNMSD
Percent Solids for Spike Sample: 0

Analyte	Units	Acceptance Limit %R	Spiked Result	Conc. Qualifier	Sample Result	Conc. Qualifier	Spike Added	Dilution Factor	% Rec	Qual	Analysis Date
Cyanide	mg/L	75-125	0.036		0.00099	J	0.04	1	88		09/24/2024

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Matrix Spike Summary

Client: Chemtech Consulting Group
SDG No.: P3848
Project: NJ Waste Water PT
Sample ID: P4085-05
Client ID: PURGE-WATERMS
Percent Solids for Spike Sample: 0

Analyte	Units	Acceptance Limit %R	Spiked Result	Conc. Qualifier	Sample Result	Conc. Qualifier	Spike Added	Dilution Factor	% Rec	Qual	Analysis Date
Bromide	mg/L	80-120	9.90		0.38	J	10	1	95		09/17/2024
Hexavalent Chromium	mg/L	90-111	1.00		0.0030	U	1.0	2	100		09/17/2024
COD	mg/L	75-125	59.1		8.97	J	50.0	1	100		09/19/2024
Ammonia as N	mg/L	75-125	1.00		0.10		1	1	90		09/18/2024
Chloride	mg/L	80-120	395	OR	411	OR	3	1	-533	*	09/17/2024
Fluoride	mg/L	80-120	2.10		0.16	J	2	1	97		09/17/2024
TKN	mg/L	75-125	4.90		0.32	J	5	1	92		09/18/2024
Nitrite	mg/L	80-120	2.90		0.11	J	3	1	93		09/17/2024
Nitrate	mg/L	80-120	6.40	OR	3.90		2.5	1	100		09/17/2024
Sulfate	mg/L	80-120	39.2	OR	25.5		15	1	91		09/17/2024
Orthophosphate as P	mg/L	80-120	5.00		0.079	U	5	1	100		09/17/2024

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Matrix Spike Summary

Client: Chemtech Consulting Group
SDG No.: P3848
Project: NJ Waste Water PT
Sample ID: P4085-05
Client ID: PURGE-WATERMSD
Percent Solids for Spike Sample: 0

Analyte	Units	Acceptance Limit %R	Spiked Result	Conc. Qualifier	Sample Result	Conc. Qualifier	Spike Added	Dilution Factor	% Rec	Qual	Analysis Date
Bromide	mg/L	80-120	10.3		0.38	J	10	1	99		09/17/2024
Hexavalent Chromium	mg/L	90-111	1.00		0.0030	U	1.0	2	100		09/17/2024
COD	mg/L	75-125	57.1		8.97	J	50.0	1	96		09/19/2024
Ammonia as N	mg/L	75-125	0.97		0.10		1	1	87		09/18/2024
Chloride	mg/L	80-120	394	OR	411	OR	3	1	-567	*	09/17/2024
Fluoride	mg/L	80-120	2.20		0.16	J	2	1	102		09/17/2024
TKN	mg/L	75-125	4.70		0.32	J	5	1	88		09/18/2024
Nitrite	mg/L	80-120	3.10		0.11	J	3	1	100		09/17/2024
Nitrate	mg/L	80-120	6.50	OR	3.90		2.5	1	104		09/17/2024
Sulfate	mg/L	80-120	39.8	OR	25.5		15	1	95		09/17/2024
Orthophosphate as P	mg/L	80-120	5.20		0.079	U	5	1	104		09/17/2024

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Matrix Spike Summary

Client: Chemtech Consulting Group
SDG No.: P3848
Project: NJ Waste Water PT
Sample ID: P4147-01
Client ID: EFFLUENTMS
Percent Solids for Spike Sample: 0

Analyte	Units	Acceptance Limit %R	Spiked Result	Conc. Qualifier	Sample Result	Conc. Qualifier	Spike Added	Dilution Factor	% Rec	Qual	Analysis Date
Orthophosphate as P	mg/L	90-110	0.51		0.047	J	0.5	1	92		09/20/2024

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Matrix Spike Summary

Client: Chemtech Consulting Group
SDG No.: P3848
Project: NJ Waste Water PT
Sample ID: P4147-01
Client ID: EFFLUENTMSD
Percent Solids for Spike Sample: 0

Analyte	Units	Acceptance Limit %R	Spiked Result	Conc. Qualifier	Sample Result	Conc. Qualifier	Spike Added	Dilution Factor	% Rec	Qual	Analysis Date
Orthophosphate as P	mg/L	90-110	0.51		0.047	J	0.5	1	93		09/20/2024

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Matrix Spike Summary

Client: Chemtech Consulting Group
SDG No.: P3848
Project: NJ Waste Water PT
Sample ID: P4147-01
Client ID: EFFLUENTMS
Percent Solids for Spike Sample: 0

Analyte	Units	Acceptance Limit %R	Spiked Result	Conc. Qualifier	Sample Result	Conc. Qualifier	Spike Added	Dilution Factor	% Rec	Qual	Analysis Date
Oil and Grease	mg/L	78-114	69.1		49.0		20.0	1	101		09/26/2024

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Matrix Spike Summary

Client: Chemtech Consulting Group
SDG No.: P3848
Project: NJ Waste Water PT
Sample ID: P4147-01
Client ID: EFFLUENTMSD
Percent Solids for Spike Sample: 0

Analyte	Units	Acceptance Limit %R	Spiked Result	Conc. Qualifier	Sample Result	Conc. Qualifier	Spike Added	Dilution Factor	% Rec	Qual	Analysis Date
Oil and Grease	mg/L	78-114	68.7		49.0		20.0	1	98		09/26/2024

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Matrix Spike Summary

Client: Chemtech Consulting Group
SDG No.: P3848
Project: NJ Waste Water PT
Sample ID: P4165-07
Client ID: 14B-(1-4)-COMPMS
Percent Solids for Spike Sample: 0

Analyte	Units	Acceptance Limit %R	Spiked Result	Conc. Qualifier	Sample Result	Conc. Qualifier	Spike Added	Dilution Factor	% Rec	Qual	Analysis Date
Hexavalent Chromium	mg/L	90-111	1.00		0.0020	U	1.0	2	100		09/24/2024

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Matrix Spike Summary

Client: Chemtech Consulting Group
SDG No.: P3848
Project: NJ Waste Water PT
Sample ID: P4165-07
Client ID: 14B-(1-4)-COMPMSD
Percent Solids for Spike Sample: 0

Analyte	Units	Acceptance Limit %R	Spiked Result	Conc. Qualifier	Sample Result	Conc. Qualifier	Spike Added	Dilution Factor	% Rec	Qual	Analysis Date
Hexavalent Chromium	mg/L	90-111	0.99		0.0020	U	1.0	2	99		09/24/2024

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Matrix Spike Summary

Client: Chemtech Consulting Group
SDG No.: P3848
Project: NJ Waste Water PT
Sample ID: P4180-21
Client ID: 5602-75-001-NEUTRALIZATION-OUTFALLMS
Percent Solids for Spike Sample: 0

Analyte	Units	Acceptance Limit %R	Spiked Result	Conc. Qualifier	Sample Result	Conc. Qualifier	Spike Added	Dilution Factor	% Rec	Qual	Analysis Date
Sulfide	mg/L	75-125	21.8		0.43	U	25.0	1	87		09/30/2024

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Matrix Spike Summary

Client: Chemtech Consulting Group
SDG No.: P3848
Project: NJ Waste Water PT
Sample ID: P4180-21
Client ID: 5602-75-001-NEUTRALIZATION-OUTFALLMSD
Percent Solids for Spike Sample: 0

Analyte	Units	Acceptance Limit %R	Spiked Result	Conc. Qualifier	Sample Result	Conc. Qualifier	Spike Added	Dilution Factor	% Rec	Qual	Analysis Date
Sulfide	mg/L	75-125	21.8		0.43	U	25.0	1	87		09/30/2024

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Matrix Spike Summary

Client: Chemtech Consulting Group
SDG No.: P3848
Project: NJ Waste Water PT
Sample ID: P4194-01
Client ID: MANHOLE-119-KEARNYMS
Percent Solids for Spike Sample: 0

Analyte	Units	Acceptance Limit %R	Spiked Result	Conc. Qualifier	Sample Result	Conc. Qualifier	Spike Added	Dilution Factor	% Rec	Qual	Analysis Date
TOC	mg/L	75-125	27.7	OR	16.9		10	1	108		09/26/2024

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Matrix Spike Summary

Client: Chemtech Consulting Group
SDG No.: P3848
Project: NJ Waste Water PT
Sample ID: P4194-01
Client ID: MANHOLE-119-KEARNYMSD
Percent Solids for Spike Sample: 0

Analyte	Units	Acceptance Limit %R	Spiked Result	Conc. Qualifier	Sample Result	Conc. Qualifier	Spike Added	Dilution Factor	% Rec	Qual	Analysis Date
TOC	mg/L	75-125	28.3	OR	16.9		10	1	114		09/26/2024

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Duplicate Sample Summary

Client: Chemtech Consulting Group
SDG No.: P3848
Project: NJ Waste Water PT
Sample ID: LB132611BS
Client ID: LB132611BSD
Percent Solids for Spike Sample: 0

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/ AD	Qual	Analysis Date
TPH	mg/L	+/-18	16.8		17.1		1	1.77		09/26/2024

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Duplicate Sample Summary

Client: Chemtech Consulting Group
SDG No.: P3848
Project: NJ Waste Water PT
Sample ID: P3848-03
Client ID: PT-DEM-WPDUP
Percent Solids for Spike Sample: 0

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/ AD	Qual	Analysis Date
CBOD5	mg/L	+/-20	86.8		85.2		1	1.79		09/12/2024

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Duplicate Sample Summary

Client: Chemtech Consulting Group
SDG No.: P3848
Project: NJ Waste Water PT
Sample ID: P3937-02
Client ID: COMPDUP
Percent Solids for Spike Sample: 0

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/ AD	Qual	Analysis Date
BOD5	mg/L	+/-20	674		666		1	1.16		09/12/2024

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Duplicate Sample Summary

Client: Chemtech Consulting Group
SDG No.: P3848
Project: NJ Waste Water PT
Sample ID: P3940-01
Client ID: AST-2024-4036-PRIMDUP
Percent Solids for Spike Sample: 0

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/ AD	Qual	Analysis Date
Phosphorus, Total	mg/L	+/-20	0.092		0.092		1	0		09/12/2024
Phenolics	mg/L	+/-20	0.023	J	0.023	U	1	200	*	09/19/2024

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Duplicate Sample Summary

Client: Chemtech Consulting Group
SDG No.: P3848
Project: NJ Waste Water PT
Sample ID: P3940-01
Client ID: AST-2024-4036-PRIMMSD
Percent Solids for Spike Sample: 0

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/ AD	Qual	Analysis Date
Phosphorus, Total	mg/L	+/-20	0.55		0.55		1	0		09/12/2024
Phenolics	mg/L	+/-20	1.00		1.00		1	0		09/19/2024

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Duplicate Sample Summary

Client: Chemtech Consulting Group
SDG No.: P3848
Project: NJ Waste Water PT
Sample ID: P3965-02
Client ID: EFF-DAY-1-1-4CNDUP
Percent Solids for Spike Sample: 0

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/ AD	Qual	Analysis Date
Cyanide	mg/L	+/-20	0.00099	J	0.0010	J	1	1		09/24/2024

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Duplicate Sample Summary

Client: Chemtech Consulting Group
SDG No.: P3848
Project: NJ Waste Water PT
Sample ID: P3965-02
Client ID: EFF-DAY-1-1-4CNMSD
Percent Solids for Spike Sample: 0

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/ AD	Qual	Analysis Date
Cyanide	mg/L	+/-20	0.036		0.036		1	0		09/24/2024

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Duplicate Sample Summary

Client: Chemtech Consulting Group
SDG No.: P3848
Project: NJ Waste Water PT
Sample ID: P4085-05
Client ID: PURGE-WATERDUP
Percent Solids for Spike Sample: 0

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/ AD	Qual	Analysis Date
Hexavalent Chromium	mg/L	+/-20	0.0030	U	0.0030	U	1	0		09/17/2024
Ammonia as N	mg/L	+/-20	0.10		0.10		1	0		09/18/2024
TKN	mg/L	+/-20	0.32	J	0.33	J	1	3		09/18/2024
COD	mg/L	+/-20	8.97	J	9.95	J	1	10.36		09/19/2024

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Duplicate Sample Summary

Client: Chemtech Consulting Group
SDG No.: P3848
Project: NJ Waste Water PT
Sample ID: P4085-05
Client ID: PURGE-WATERMSD
Percent Solids for Spike Sample: 0

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/ AD	Qual	Analysis Date
Chloride	mg/L	+/-20	395	OR	394	OR	1	0		09/17/2024
Nitrate	mg/L	+/-20	6.40	OR	6.50	OR	1	2		09/17/2024
Sulfate	mg/L	+/-20	39.2	OR	39.8	OR	1	2		09/17/2024
Bromide	mg/L	+/-20	9.90		10.3		1	4		09/17/2024
Orthophosphate as P	mg/L	+/-20	5.00		5.20		1	4		09/17/2024
Fluoride	mg/L	+/-20	2.10		2.20		1	5		09/17/2024
Nitrite	mg/L	+/-20	2.90		3.10		1	7		09/17/2024
Hexavalent Chromium	mg/L	+/-20	1.00		1.00		2	0.4		09/17/2024
Ammonia as N	mg/L	+/-20	1.00		0.97		1	3		09/18/2024
TKN	mg/L	+/-20	4.90		4.70		1	4		09/18/2024
COD	mg/L	+/-20	59.1		57.1		1	3.44		09/19/2024

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Duplicate Sample Summary

Client: Chemtech Consulting Group
SDG No.: P3848
Project: NJ Waste Water PT
Sample ID: P4140-02
Client ID: 306-307DUP
Percent Solids for Spike Sample: 0

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/ AD	Qual	Analysis Date
pH	pH	+/-20	7.40		7.41		1	0.14		09/23/2024

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Duplicate Sample Summary

Client: Chemtech Consulting Group
SDG No.: P3848
Project: NJ Waste Water PT
Sample ID: P4147-01
Client ID: EFFLUENTDUP
Percent Solids for Spike Sample: 0

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/ AD	Qual	Analysis Date
Orthophosphate as P	mg/L	+/-20	0.047	J	0.046	J	1	2.15		09/20/2024

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Duplicate Sample Summary

Client: Chemtech Consulting Group
SDG No.: P3848
Project: NJ Waste Water PT
Sample ID: P4147-01
Client ID: EFFLUENTMSD
Percent Solids for Spike Sample: 0

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/ AD	Qual	Analysis Date
Orthophosphate as P	mg/L	+/-20	0.51		0.51		1	0.59		09/20/2024

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Duplicate Sample Summary

Client: Chemtech Consulting Group
SDG No.: P3848
Project: NJ Waste Water PT
Sample ID: P4147-01
Client ID: EFFLUENTMSD
Percent Solids for Spike Sample: 0

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/ AD	Qual	Analysis Date
Oil and Grease	mg/L	+/-18	69.1		68.7		1	0.58		09/26/2024

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Duplicate Sample Summary

Client: Chemtech Consulting Group
SDG No.: P3848
Project: NJ Waste Water PT
Sample ID: P4165-07
Client ID: 14B-(1-4)-COMPDUP
Percent Solids for Spike Sample: 0

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/ AD	Qual	Analysis Date
Hexavalent Chromium	mg/L	+/-20	0.0020	U	0.0020	U	1	0		09/24/2024

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Duplicate Sample Summary

Client: Chemtech Consulting Group
SDG No.: P3848
Project: NJ Waste Water PT
Sample ID: P4165-07
Client ID: 14B-(1-4)-COMPMSD
Percent Solids for Spike Sample: 0

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/ AD	Qual	Analysis Date
Hexavalent Chromium	mg/L	+/-20	1.00		0.99		2	0.6		09/24/2024

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Duplicate Sample Summary

Client: Chemtech Consulting Group
SDG No.: P3848
Project: NJ Waste Water PT
Sample ID: P4180-21
Client ID: 5602-75-001-NEUTRALIZATION-OUTFALLDUP
Percent Solids for Spike Sample: 0

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/ AD	Qual	Analysis Date
Sulfide	mg/L	+/-20	0.43	U	0.43	U	1	0		09/30/2024

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Duplicate Sample Summary

Client: Chemtech Consulting Group
SDG No.: P3848
Project: NJ Waste Water PT
Sample ID: P4180-21
Client ID: 5602-75-001-NEUTRALIZATION-OUTFALLMSD
Percent Solids for Spike Sample: 0

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/ AD	Qual	Analysis Date
Sulfide	mg/L	+/-20	21.8		21.8		1	0		09/30/2024

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Duplicate Sample Summary

Client: Chemtech Consulting Group
SDG No.: P3848
Project: NJ Waste Water PT
Sample ID: P4194-01
Client ID: MANHOLE-119-KEARNYMSD
Percent Solids for Spike Sample: 0

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/ AD	Qual	Analysis Date
TOC	mg/L	+/-20	27.7	OR	28.3	OR	1	2		09/26/2024

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Duplicate Sample Summary

Client: Chemtech Consulting Group
SDG No.: P3848
Project: NJ Waste Water PT
Sample ID: P4200-01
Client ID: B2-WARD-12-RM3016-SINKDUP
Percent Solids for Spike Sample: 0

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/ AD	Qual	Analysis Date
Turbidity	NTU	+/-20	0.88	J	0.87	J	1	1.25		09/26/2024

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Duplicate Sample Summary

Client: Chemtech Consulting Group
SDG No.: P3848
Project: NJ Waste Water PT
Sample ID: P4235-02
Client ID: A1403DUP
Percent Solids for Spike Sample: 0

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/ AD	Qual	Analysis Date
TS	mg/L	+/-5	2310		2390		1	3.11		10/01/2024
TSS	mg/L	+/-5	654		654		1	0.02		10/03/2024

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Duplicate Sample Summary

Client: Chemtech Consulting Group
SDG No.: P3848
Project: NJ Waste Water PT
Sample ID: P4260-01
Client ID: TOWER-2DUP
Percent Solids for Spike Sample: 0

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/ AD	Qual	Analysis Date
TDS	mg/L	+/-5	3570		3550		1	0.53		10/01/2024

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Laboratory Control Sample Summary

Client:	Chemtech Consulting Group	**SDG No.:**	P3848
Project:	NJ Waste Water PT	**Run No.:**	LB132300

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID LB132300BS								
Residual Chlorine	mg/L	0.4	0.41		102	1	90-110	09/16/2024

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Laboratory Control Sample Summary

Client:	Chemtech Consulting Group	**SDG No.:**	P3848
Project:	NJ Waste Water PT	**Run No.:**	LB132394

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID LB132394BS								
CBOD5	mg/L	198	188		95	1	84.6-115.4	09/12/2024

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Laboratory Control Sample Summary

Client:	Chemtech Consulting Group	**SDG No.:**	P3848
Project:	NJ Waste Water PT	**Run No.:**	LB132404

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID LB132404BS								
BOD5	mg/L	198	189		95	1	84.6-115.4	09/12/2024

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Laboratory Control Sample Summary

Client:	Chemtech Consulting Group	**SDG No.:**	P3848
Project:	NJ Waste Water PT	**Run No.:**	LB132418

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID LB132418BS								
Conductance	umho/cm	1413	1430		101	1	99-101	09/13/2024

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Laboratory Control Sample Summary

Client:	Chemtech Consulting Group	**SDG No.:**	P3848
Project:	NJ Waste Water PT	**Run No.:**	LB132419

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID LB132419BS								
Conductance	umho/cm	1413	1430		101	1	99-101	09/13/2024

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Laboratory Control Sample Summary

Client:	Chemtech Consulting Group	**SDG No.:**	P3848
Project:	NJ Waste Water PT	**Run No.:**	LB132420

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID LB132420BS								
Conductance	umho/cm	1413	1430		101	1	99-101	09/13/2024

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Laboratory Control Sample Summary

Client:	Chemtech Consulting Group	**SDG No.:**	P3848
Project:	NJ Waste Water PT	**Run No.:**	LB132464

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID LB132464BSW								
Bromide	mg/L	10	10.4		104	1	90-110	09/17/2024
Chloride	mg/L	3	3.10		103	1	90-110	09/17/2024
Fluoride	mg/L	2	2.10		105	1	90-110	09/17/2024
Nitrite	mg/L	3	3.10		103	1	90-110	09/17/2024
Nitrate	mg/L	2.5	2.60		104	1	90-110	09/17/2024
Sulfate	mg/L	15	15.4		103	1	90-110	09/17/2024
Orthophosphate as P	mg/L	5	5.30		106	1	90-110	09/17/2024

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Laboratory Control Sample Summary

Client:	Chemtech Consulting Group	**SDG No.:**	P3848
Project:	NJ Waste Water PT	**Run No.:**	LB132468

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID **LB132468BSW**								
Nitrite	mg/L	0.3	0.30		100	1	90-110	09/17/2024

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Laboratory Control Sample Summary

Client:	Chemtech Consulting Group	**SDG No.:**	P3848
Project:	NJ Waste Water PT	**Run No.:**	LB132470

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID LB132470BS								
Hexavalent Chromium	mg/L	0.5	0.50		100	1	90-111	09/17/2024

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Laboratory Control Sample Summary

Client:	Chemtech Consulting Group	**SDG No.:**	P3848
Project:	NJ Waste Water PT	**Run No.:**	LB132485

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID LB132485BS								
Chloride	mg/L	500	490		98	1	90-110	09/18/2024

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Laboratory Control Sample Summary

Client:	Chemtech Consulting Group	**SDG No.:**	P3848
Project:	NJ Waste Water PT	**Run No.:**	LB132487

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID LB132487BSW								
Alkalinity	mg/L	50	43.5		87	1	80-120	09/19/2024

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Laboratory Control Sample Summary

Client:	Chemtech Consulting Group	**SDG No.:**	P3848
Project:	NJ Waste Water PT	**Run No.:**	LB132492

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID **LB132492BSW**								
Bromide	mg/L	10	10.4		104	1	90-110	09/17/2024
Chloride	mg/L	3	3.10		103	1	90-110	09/17/2024
Fluoride	mg/L	2	2.10		105	1	90-110	09/17/2024
Nitrite	mg/L	3	3.10		103	1	90-110	09/17/2024
Nitrate	mg/L	2.5	2.60		104	1	90-110	09/17/2024
Sulfate	mg/L	15	15.4		103	1	90-110	09/17/2024
Orthophosphate as P	mg/L	5	5.30		106	1	90-110	09/17/2024

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Laboratory Control Sample Summary

Client:	Chemtech Consulting Group	**SDG No.:**	P3848
Project:	NJ Waste Water PT	**Run No.:**	LB132508

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID LB132508BS								
COD	mg/L	50	48.2		96	1	90-110	09/19/2024

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Laboratory Control Sample Summary

Client:	Chemtech Consulting Group	**SDG No.:**	P3848
Project:	NJ Waste Water PT	**Run No.:**	LB132528

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID **LB132528BS**								
Sulfate	mg/L	20	19.4		97	1	90-110	09/20/2024

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Laboratory Control Sample Summary

Client:	Chemtech Consulting Group	**SDG No.:**	P3848
Project:	NJ Waste Water PT	**Run No.:**	LB132529

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID LB132529BS								
Sulfate	mg/L	20	18.9		94	1	90-110	09/20/2024

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Laboratory Control Sample Summary

Client:	Chemtech Consulting Group	**SDG No.:**	P3848
Project:	NJ Waste Water PT	**Run No.:**	LB132534

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID LB132534BS								
Orthophosphate as P	mg/L	0.5	0.50		99	1	90-110	09/20/2024

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Laboratory Control Sample Summary

Client:	Chemtech Consulting Group	**SDG No.:**	P3848
Project:	NJ Waste Water PT	**Run No.:**	LB132576

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID LB132576BS								
Hexavalent Chromium	mg/L	0.5	0.50		100	1	90-111	09/24/2024

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Laboratory Control Sample Summary

Client:	Chemtech Consulting Group	**SDG No.:**	P3848
Project:	NJ Waste Water PT	**Run No.:**	LB132606

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID **LB132606BSW**								
TOC	mg/L	10	9.80		98	1	90-110	09/26/2024

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Laboratory Control Sample Summary

Client:	Chemtech Consulting Group	**SDG No.:**	P3848
Project:	NJ Waste Water PT	**Run No.:**	LB132610

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID LB132610BS								
Oil and Grease	mg/L	20.0	16.7		84	1	78-114	09/26/2024

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Laboratory Control Sample Summary

Client:	Chemtech Consulting Group	**SDG No.:**	P3848
Project:	NJ Waste Water PT	**Run No.:**	LB132611

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID LB132611BS								
TPH	mg/L	20.0	16.8		84	1	78-114	09/26/2024

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Laboratory Control Sample Summary

Client:	Chemtech Consulting Group	**SDG No.:**	P3848
Project:	NJ Waste Water PT	**Run No.:**	LB132611

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID LB132611BSD								
TPH	mg/L	20.0	17.1		86	1	78-114	09/26/2024

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Laboratory Control Sample Summary

Client:	Chemtech Consulting Group	**SDG No.:**	P3848
Project:	NJ Waste Water PT	**Run No.:**	LB132641

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID LB132641BSW								
TOC	mg/L	10	9.70		97	1	90-110	09/26/2024

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Laboratory Control Sample Summary

Client:	Chemtech Consulting Group	**SDG No.:**	P3848
Project:	NJ Waste Water PT	**Run No.:**	LB132691

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID LB132691BS								
TDS	mg/L	100	95.0		95	1	90-110	10/01/2024

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Laboratory Control Sample Summary

Client:	Chemtech Consulting Group	**SDG No.:**	P3848
Project:	NJ Waste Water PT	**Run No.:**	LB132725

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID LB132725BS								
TSS	mg/L	550	532		97	1	90-110	10/03/2024

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Laboratory Control Sample Summary

Client:	Chemtech Consulting Group	**SDG No.:**	P3848
Project:	NJ Waste Water PT	**Run No.:**	LB132412

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID PB163343BS								
Phosphorus, Total	**mg/L**	**0.50**	**0.49**		**98**	**1**	**90-110**	**09/12/2024**

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Laboratory Control Sample Summary

Client:	Chemtech Consulting Group	**SDG No.:**	P3848
Project:	NJ Waste Water PT	**Run No.:**	LB132507

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID **PB163389BS**								
TKN	mg/L	5	5.00		100	1	90-110	09/18/2024

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Laboratory Control Sample Summary

Client:	Chemtech Consulting Group	**SDG No.:**	P3848
Project:	NJ Waste Water PT	**Run No.:**	LB132513

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID PB163449BS								
Phenolics	mg/L	1	1.00		100	1	80-120	09/19/2024

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Laboratory Control Sample Summary

Client:	Chemtech Consulting Group	**SDG No.:**	P3848
Project:	NJ Waste Water PT	**Run No.:**	LB132515

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID **PB163450BS**								
Phenolics	**mg/L**	**1**	**1.00**		**100**	**1**	**80-120**	**09/19/2024**

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Laboratory Control Sample Summary

Client:	Chemtech Consulting Group	**SDG No.:**	P3848
Project:	NJ Waste Water PT	**Run No.:**	LB132486

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID PB163477BS								
Ammonia as N	mg/L	1	0.95		95	1	90-110	09/18/2024

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Laboratory Control Sample Summary

Client:	Chemtech Consulting Group	**SDG No.:**	P3848
Project:	NJ Waste Water PT	**Run No.:**	LB132590

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID PB163628BS								
Cyanide	mg/L	0.1	0.097		97	1	85-115	09/25/2024

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Laboratory Control Sample Summary

Client:	Chemtech Consulting Group	**SDG No.:**	P3848
Project:	NJ Waste Water PT	**Run No.:**	LB132583

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID PB163632BS								
Cyanide	mg/L	0.1	0.098		98	1	85-115	09/24/2024

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Laboratory Control Sample Summary

Client:	Chemtech Consulting Group	**SDG No.:**	P3848
Project:	NJ Waste Water PT	**Run No.:**	LB132591

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID PB163640BS								
Cyanide	mg/L	0.1	0.097		97	1	85-115	09/25/2024

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Laboratory Control Sample Summary

Client:	Chemtech Consulting Group	**SDG No.:**	P3848
Project:	NJ Waste Water PT	**Run No.:**	LB132667

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID PB163761BS								
Sulfide	mg/L	25	21.1		84	1	80-120	09/30/2024

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Laboratory Control Sample Summary

Client:	Chemtech Consulting Group	**SDG No.:**	P3848
Project:	NJ Waste Water PT	**Run No.:**	LB132668

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID PB163762BS								
Sulfide	mg/L	25	21.1		84	1	80-120	09/30/2024

RAW DATA

Reviewed By:Iwona
On:9/17/2024 9:43:06 AM
Inst Id :SPECTROPHOTOME

Analytical Summary Report

Analysis Method: SM4500 Cl G
ANALYST: Niha
Parameter: Residual Chlorine
SUPERVISOR REVIEW BY: Iwona
Run Number: LB132300

Reagent/Standard	Lot/Log #
Residual chlorine ICV-LCS, 0.4PPM	WP109735
Chlorine Calibration std, 0.1ppm	WP109730
Chlorine Calibration std, 0.2ppm	WP109731
Chlorine Calibration std, 0.8ppm	WP109732
Chlorine Calibration std, 0.0ppm	WP109729
Chlorine Calibration std, 1.6ppm	WP109733
Residual Chlorine Calibration and CCV std, 0	WP109734
Total Chlorine Powder Pillows	W2815

Intercept: -0.0057 **Slope:** 0.9982 **Regression:** 0.999854

Seq	Lab ID	True Val (mg/l)	DF	Initial Reading	Final Reading	Difference	Result (mg/l)	%D	AnalDate	Anal Time
1	CAL1	0	1	0.000	0.000	0.000	0.01		09/16/2024	16:00
2	CAL2	0.1	1	0.000	0.100	0.100	0.11	6	09/16/2024	16:03
3	CAL3	0.2	1	0.000	0.200	0.200	0.21	3	09/16/2024	16:06
4	CAL4	0.4	1	0.000	0.380	0.380	0.39	-3.5	09/16/2024	16:09
5	CAL5	0.8	1	0.000	0.780	0.780	0.79	-1.6	09/16/2024	16:12
6	CAL6	1.6	1	0.000	1.600	1.600	1.61	0.6	09/16/2024	16:15

Reviewed By:Iwona
On:9/17/2024 9:43:06 AM
Inst Id :SPECTROPHOTOME

CHEMTECH

Analytical Summary Report

Analysis Method: SM4500 Cl G
ANALYST: Niha
Parameter: Residual Chlorine
SUPERVISOR REVIEW BY: Iwona
Run Number: LB132300

Seq	Lab ID	Initial Weight	Final Vol	True Value (mg/L)	DF	Initial Reading	Final Reading	Diff.	Result (mg/L)	Anal Date	Anal Time
1	ICV			0.4	1	0.0000	0.4000	0.4000	0.4060	09/16/2024	16:18
2	ICB				1	0.0000	0.0000	0.0000	0.0060	09/16/2024	16:21
3	CCV1			0.4	1	0.0000	0.3900	0.3900	0.3960	09/16/2024	16:24
4	CCB1				1	0.0000	0.0000	0.0000	0.0060	09/16/2024	16:27
5	LB132300BL	50	50		1	0.0000	0.0000	0.0000	0.0060	09/16/2024	16:30
6	LB132300BS	50	50	0.4	1	0.0000	0.4000	0.4000	0.4060	09/16/2024	16:33
7	P3848-19	50	50		1	0.0000	1.3000	1.3000	1.3080	09/16/2024	16:36
8	CCV2			0.4	1	0.0000	0.3800	0.3800	0.3860	09/16/2024	16:39
9	CCB2				1	0.0000	0.0000	0.0000	0.0060	09/16/2024	16:42

LB132300

WORKLIST(Hardcopy Internal Chain)

WorkList Name : RESIDUAL CHLORINE-0 **WorkList ID :** 183536 **Department :** Wet-Chemistry **Date :** 09-16-2024 14:52:13

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P3848-19	PT-CL-WP	Water	Residual Chlorine	Cool 4 deg C	CHEM02	QA Of	09/03/2024	SM4500 Cl G

Date/Time 09-16-2024 15:00

Raw Sample Received by: NF(WC)

Raw Sample Relinquished by: SJ (QAO)

Date/Time NA

Raw Sample Received by: "

Raw Sample Relinquished by: "

Reviewed By:Iwona
On:9/17/2024 9:43:06 AM
Inst Id :SPECTROPHOTOME

Reviewed By:Iwona
On:9/23/2024 3:33:32 PM
Inst Id :DO METER
LB :LB132394

CBOD5 LOG

ANALYST: rubir
SUPERVISOR: Iwona

QC BATCH ID: LB132394
Analysis Date: 09/12/2024
BOD Water: WP109680
MANGANOUS SULFATE SOLUTION: W3103
Starch: W2977
Alkaline Iodide Azide: W3109
Sulfuric acid, 1N: WP108475
Sodium Thiosulfate, 0.025N: W3105
POLYSEED: WP109682
NaOH, 1N: WP108662
GGA: WP109681
IncubatorID: INCUBATOR #3
Chlorine Strips: W2965
GuageID: 0511064
pH Strips: W3121
Zero DO: WP109433
Nitrification Inhibitor: W3064

Lab SampleID	Client ID	Bottle No.	VOL. ML	Initial Reading(ML)	Final Reading(ML)	Difference	Average
WINKLER 1	WINKLER 1	1	300	0.0	9.4	9.4	9.4
WINKLER 2	WINKLER 2	2	300	9.5	18.9	9.4	9.4

Meter Calibration1: 8.90 Zero DO Reading1: 0.12 mg/L (<=0.2 Criteria)

Barometric Pressure1: 771 mmHg DO Meter BOD fluid reading for winkler comparison: 9.49

After Incubation

Meter Calibration2: 9.24 Zero DO Reading2: 0.14 mg/L (<=0.2 Criteria)

Barometric Pressure2: 771 mmHg

Reviewed By:Iwona
On:9/23/2024 3:33:32 PM
Inst Id :DO METER
LB :LB132394

CHEMTECH

QC BATCH ID: LB132394

INCUBATOR TEMP IN(C): 20.2

INCUBATOR TEMP OUT(C): 20.1

TIME IN: 17:10

TIME OUT: 12:00

DATE IN: 09/12/2024

DATE OUT: 09/17/2024

Lab SampleID	Bottle No.	Check CL	Initial PH	Final PH	Temp °C	Sam Vol. (mL)	D.O.1 Initial	D.O.2 Final	Depletion	BOD Result (mg/L)	Avg Result (mg/L)	Comment
LB132394BL	1	No	6.78	N/A	20.70	300	9.48	9.46	0.02	0.02	0.02	
POLYSEED	1					10	9.43	6.31	3.12	0.62	0.58	
POLYSEED	2					15	9.40	5.42	3.98	0.53		
POLYSEED	3					20	9.36	3.60	5.76	0.58		
GGA	1					6	9.44	5.22	4.22	182	187.67	
GGA	2					6	9.42	5.00	4.42	192		
GGA	3					6	9.34	4.98	4.36	189		
P3848-03	1	No	2.71	6.67	20.40	1	9.40	7.98	-	0	86.78	pH Adjuste
P3848-03	2					5	9.29	6.96	2.33	105		
P3848-03	3					20	9.24	1.14	8.1	112.8		
P3848-03	4					50	8.94	1.27	7.67	42.54		
P3848-03	5					100	8.90	0.40	-	0		
P3848-03DUP	1	No	2.71	6.67	20.40	1	9.39	7.94	-	0	85.24	pH Adjuste
P3848-03DUP	2					5	9.26	7.05	2.21	97.8		
P3848-03DUP	3					20	9.24	1.06	8.18	114		
P3848-03DUP	4					50	8.90	1.00	7.9	43.92		
P3848-03DUP	5					100	8.91	0.45	-	0		
P3940-01	1	No	7.33	N/A	20.00	5	9.47	8.49	-	0		
P3940-01	2					20	9.46	8.35	-	0		
P3940-01	3					50	9.45	7.98	-	0		
P3940-01	4					150	9.44	7.60	-	0		

NOTE: 2ml POLYSEED added to GGA and all the Samples, but not in Blank.

NOTE (For, CBOD5): 0.16 g Nitrification Inhibitor added to GGA and all the Samples, but not in Blank.

WORKLIST(Hardcopy Internal Chain)

LB132394

WorkList Name : cbod5-9-12 **WorkList ID :** 183422 **Department :** Wet-Chemistry **Date :** 09-12-2024 09:52:58

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P3848-03	PT-DEM-WP	Water	CBOD5	Cool 4 deg C	CHEM02	QA Of	09/03/2024	SM5210 B
P3940-01	AST-2024-4036-PRIM	Water	CBOD5	Cool 4 deg C	WIND03	H53	08/29/2024	SM5210 B

Date/Time 09/12/2024 15.30
Raw Sample Received by: RM (WC)
Raw Sample Relinquished by: [illegible] (WC)

Date/Time 09/12/2024 16.45
Raw Sample Received by: [illegible] (WC)
Raw Sample Relinquished by: RM (WC)

Reviewed By:Iwona
On:9/23/2024 3:33:32 PM
Inst Id :DO METER
LB :LB132394

Reviewed By:Iwona
On:9/23/2024 3:38:33 PM
Inst Id :DO METER
LB :LB132404

BOD5 LOG

ANALYST: rubir
SUPERVISOR: Iwona

QC BATCH ID: LB132404
Analysis Date: 09/12/2024
BOD Water: WP109680
MANGANOUS SULFATE SOLUTION: W3103
Starch: W2977
Alkaline Iodide Azide: W3109
Sulfuric acid, 1N: WP108475
Sodium Thiosulfate, 0.025N: W3105
POLYSEED: WP109682
NaOH, 1N: WP108662
GGA: WP109681
IncubatorID: INCUBATOR #3
Chlorine Strips: W2965
GuageID: 0511064
pH Strips: W3121
Zero DO: WP109433

Lab SampleID	Client ID	Bottle No.	VOL. ML	Initial Reading(ML)	Final Reading(ML)	Difference	Average
WINKLER 1	WINKLER 1	1	300	0.0	9.4	9.4	9.4
WINKLER 2	WINKLER 2	2	300	9.5	18.9	9.4	9.4

Meter Calibration1: 8.90 Zero DO Reading1: 0.12 mg/L (<=0.2 Criteria)

Barometric Pressure1: 771 mmHg DO Meter BOD fluid reading for winkler comparison: 9.49

After Incubation

Meter Calibration2: 9.24 Zero DO Reading2: 0.14 mg/L (<=0.2 Criteria)

Barometric Pressure2: 771 mmHg

Reviewed By:Iwona
On:9/23/2024 3:38:33 PM
Inst Id :DO METER
LB :LB132404

CHEMTECH

QC BATCH ID: LB132404

INCUBATOR TEMP IN(C): 20.2 **INCUBATOR TEMP OUT(C):** 20.1

TIME IN: 17:10 **TIME OUT:** 12:00

DATE IN: 09/12/2024 **DATE OUT:** 09/17/2024

Lab SampleID	Bottle No.	Check CL	Initial PH	Final PH	Temp °C	Sam Vol. (mL)	D.O.1 Initial	D.O.2 Final	Depletion	BOD Result (mg/L)	Avg Result (mg/L)	Comment
LB132404BL	1	No	6.78	N/A	20.70	300	9.48	9.46	0.02	0.02	0.02	
POLYSEED	1					10	9.43	6.34	3.09	0.62	0.58	
POLYSEED	2					15	9.39	5.30	4.09	0.55		
POLYSEED	3					20	9.32	3.54	5.78	0.58		
GGA	1					6	9.45	5.27	4.18	180	188.67	
GGA	2					6	9.45	5.04	4.41	191.5		
GGA	3					6	9.41	4.94	4.47	194.5		
P3848-03	1	No	2.71	6.67	20.40	1	9.46	8.56	-	0	89.4	pH Adjuste
P3848-03	2					5	9.45	7.98	-	0		
P3848-03	3					20	9.40	2.86	6.54	89.4		
P3848-03	4					50	9.20	0.50	-	0		
P3848-03	5					100	9.18	0.27	-	0		
P3937-02	1	No	9.36	7.42	20.00	0.5	9.45	7.08	2.37	1074	673.88	pH Adjuste
P3937-02	2					1	9.42	7.00	2.42	552		
P3937-02	3					2	9.34	5.35	3.99	511.5		
P3937-02	4					3	9.30	3.14	6.16	558		
P3937-02DUP	1	No	9.36	7.42	20.00	0.5	9.44	7.28	2.16	948	666.13	pH Adjuste
P3937-02DUP	2					1	9.42	6.78	2.64	618		
P3937-02DUP	3					2	9.31	5.20	4.11	529.5		
P3937-02DUP	4					3	9.28	3.01	6.27	569		
P3977-01	1	No	7.33	N/A	20.30	0.05	9.39	8.41	-	0	3104	
P3977-01	2					0.1	9.29	7.25	2.04	4380		
P3977-01	3					0.2	9.26	7.16	2.1	2280		
P3977-01	4					0.5	9.16	4.16	5	2652		
P3977-01	5					1	8.71	0.24	-	0		

NOTE: 2ml POLYSEED added to GGA and all the Samples, but not in Blank.

NOTE (For, CBOD5): 0.16 g Nitrification Inhibitor added to GGA and all the Samples, but not in Blank.

WORKLIST(Hardcopy Internal Chain)

LB132404

WorkList Name : bod-9-12 **WorkList ID :** 183406 **Department :** Wet-Chemistry **Date :** 09-12-2024 08:27:36

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P3848-03	PT-DEM-WP	Water	BOD5	Cool 4 deg C	CHEM02	QA Of	09/03/2024	SM5210 B
P3937-02	COMP	Water	BOD5	Cool 4 deg C	ARAM01	I51	09/11/2024	SM5210 B
P3977-01	DRAIN-WATER-TANK-1	Water	BOD5	Cool 4 deg C	MAJO01	H53	09/12/2024	SM5210 B

Date/Time 09/12/2024 15:30

Raw Sample Received by: RM (WC)

Raw Sample Relinquished by: (WC)

Date/Time 09/12/2024 16:45

Raw Sample Received by: (WC)

Raw Sample Relinquished by: RM (WC)

Reviewed By:Iwona
On:9/23/2024 3:38:33 PM
Inst Id :DO METER
LB :LB132404

Reviewed By:Iwona
On:9/13/2024 10:19:51 AM
Inst Id :SPECTROPHOTOME

Analytical Summary Report

Analysis Method: 365.3

Parameter: Phosphorus-Total

Run Number: LB132412

ANALYST: Niha

SUPERVISOR REVIEW BY: Iwona

Reagent/Standard	Lot/Log #
calibration std. phosphate 1 ppm	WP109586
calibration std. phosphate 0.5 ppm	WP109585
calibration std. phosphate 0.3 ppm	WP109584
calibration std. phosphate 0.1 ppm	WP109583
calibration std. phosphate 0.05 ppm	WP109582
calibration std. 0 ppm	WP109581
phosphate CCV std.	WP109588
Combined reagent	WP109669
Phenolphthalein indicator	WP108727
Sodium hydroxide, 1N	WP108662
Phosphate ICV-LCS Std	WP109587

Intercept: -0.0048 **Slope:** 0.6691 **Regression:** 0.999647

Seq	Lab ID	True Value (mg/L)	DF	Initial Volume (mL)	Final Volume (mL)	Absorbance Reading at 880nm	Result (mg/L)	%D	AnalDate	AnalTime
1	CAL1	0.00	1	50	50	0.000	0.007		09/12/2024	16:00
2	CAL2	0.05	1	50	50	0.032	0.055	10	09/12/2024	16:00
3	CAL3	0.10	1	50	50	0.065	0.104	4	09/12/2024	16:01
4	CAL4	0.30	1	50	50	0.185	0.284	-5.3	09/12/2024	16:01
5	CAL5	0.50	1	50	50	0.324	0.491	-1.8	09/12/2024	16:02
6	CAL6	1.00	1	50	50	0.670	1.009	0.9	09/12/2024	16:02

Reviewed By:Iwona
On:9/13/2024 10:19:51 AM
Inst Id :SPECTROPHOTOME

CHEMTECH

Analytical Summary Report

Analysis Method: 365.3 ANALYST: Niha

Parameter: Phosphorus-Total SUPERVISOR REVIEW BY: Iwona

Run Number: LB132412

Seq	Lab ID	True Value (mg/l)	DF	Initial Volume (mL)	Final Volume (mL)	Absorbance Reading at 880nm	Result (mg/L)	AnalDate	AnalTime
1	ICV	0.50	1	50	50	0.324	0.491	09/12/2024	16:03
2	ICB		1	50	50	0.000	0.007	09/12/2024	16:03
3	CCV1	0.50	1	50	50	0.324	0.491	09/12/2024	16:04
4	CCB1		1	50	50	0.000	0.007	09/12/2024	16:04
5	RL Check	0.01	1	50	50	0.032	0.055	09/12/2024	16:05
6	PB163343BL		1	50	50	0.000	0.007	09/12/2024	16:05
7	PB163343BS	0.50	1	50	50	0.324	0.491	09/12/2024	16:06
8	P3848-13		1	50	50	0.750	1.128	09/12/2024	16:06
9	P3901-01		1	50	50	0.077	0.122	09/12/2024	16:07
10	P3940-01		1	50	50	0.057	0.092	09/12/2024	16:07
11	P3940-01DUP		1	50	50	0.057	0.092	09/12/2024	16:08
12	P3940-01MS	0.50	1	50	50	0.365	0.553	09/12/2024	16:08
13	P3940-01MSD	0.50	1	50	50	0.365	0.553	09/12/2024	16:08
14	P3848-13		5	50	50	0.287	0.436	09/12/2024	16:09
15	CCV2	0.50	1	50	50	0.324	0.491	09/12/2024	16:09
16	CCB2		1	50	50	0.000	0.007	09/12/2024	16:10

Alliance TECHNICAL GROUP

Analytical Summary Report

Analysis Method: SM2540 F
Parameter: Settleable Solids
Run Number: LB132417

ANALYST: Niha
SUPERVISOR REVIEW BY: Iwona

Seq	Lab ID	Dilution	Result (ml/L)	Anal Date	Anal Time
1	P3848-30	1	6.50	09/13/2024	13:15

LB132417

WORKLIST(Hardcopy Internal Chain)

WorkList Name : SETTLEABLE SOLID-09 **WorkList ID :** 183484 **Department :** Wet-Chemistry **Date :** 09-13-2024 10:19:04

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P3848-30	PT-SSOL-WP	Water	Settleable Solids	Cool 4 deg C	CHEM02	QA Of	09/03/2024	SM2540 F

Date/Time 09·13·2024 , 10:30

Raw Sample Received by: NF(WC)

Raw Sample Relinquished by: SI (QAO)

Date/Time NA

Raw Sample Received by: "

Raw Sample Relinquished by: "

Reviewed By:lwona
On:9/13/2024 1:51:07 PM
Inst Id :lmhoff Cone
LB :LB132417

Reviewed By:Iwona
On:9/13/2024 1:50:53 PM
Inst Id :WC CONDUCTANCE

Analytical Summary Report

Analysis Method: 9050A
Parameter: Conductance
Run Number: LB132418

ANALYST: Niha
SUPERVISOR REVIEW BY: Iwona
Meter ID: WC CONDUCTANCE METER-1
Thermometer ID: WC PH METER-1

Reagent/Standard	Lot/Log #
conductivity standard	WP107551

Seq	Lab ID	True Value (mg/L)	Dilution	Temperature °C	Reading (umho/cm)	Result (umho/cm)	Anal Date	Anal Time
1	LB132418BL		1	23.0	0.92	0.96	09/13/2024	12:30
2	LB132418BS	1413	1	23.0	1372.00	1426.49	09/13/2024	12:35
3	P3848-09		1	23.5	753.00	775.21	09/13/2024	12:40

Note : Conductivity result is corrected to 25°C

$$\text{Result} = \frac{\text{(Reading)}}{1 + 0.0191\ (\text{Temperature} - 25)}$$

LB132418

WORKLIST(Hardcopy Internal Chain)

WorkList Name : CONDUCTANCE-091324 **WorkList ID :** 183482 **Department :** Wet-Chemistry **Date :** 09-13-2024 11:16:25

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P3848-08	PT-COND-WP	Water	Conductance	Cool 4 deg C	CHEM02	QA Of	09/03/2024	120.1

Date/Time 09.13.2024 , 11:30

Raw Sample Received by: NF(WC)

Raw Sample Relinquished by: SJ (QAO)

Date/Time NA

Raw Sample Received by:

Raw Sample Relinquished by:

Reviewed By:iwona
On:9/13/2024 1:50:53 PM
Inst Id :WC
CONDUCTANCE

Reviewed By:Iwona
On:9/13/2024 1:50:26 PM
Inst Id :WC CONDUCTANCE

Analytical Summary Report

Analysis Method: 120.1
Parameter: Conductance
Run Number: LB132419

ANALYST: Niha
SUPERVISOR REVIEW BY: Iwona
Meter ID: WC CONDUCTANCE METER-1
Thermometer ID: WC PH METER-1

Reagent/Standard	Lot/Log #
conductivity standard	WP107551

Seq	Lab ID	True Value (mg/L)	Dilution	Temperature °C	Reading (umho/cm)	Result (umho/cm)	Anal Date	Anal Time
1	LB132419BL		1	23.0	0.92	0.96	09/13/2024	12:30
2	LB132419BS	1413	1	23.0	1372.00	1426.49	09/13/2024	12:35
3	P3848-08		1	23.5	753.00	775.21	09/13/2024	12:40

Note : Conductivity result is corrected to 25°C

$$\text{Result} = \frac{\text{(Reading)}}{1 + 0.0191\ (\text{Temperature} - 25)}$$

LB132419

WORKLIST(Hardcopy Internal Chain)

WorkList Name : CONDUCTANCE - 09132 **WorkList ID :** 183483 **Department :** Wet-Chemistry **Date :** 09-13-2024 11:16:37

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P3848-09	PT-COND-WP	Water	Conductance	Cool 4 deg C	CHEM02	QA Of	09/03/2024	9050A

Date/Time 09.13.2024, 11:30

Raw Sample Received by: NF (WC)

Raw Sample Relinquished by: SJ (QAO)

Date/Time NA

Raw Sample Received by:

Raw Sample Relinquished by:

Reviewed By:Iwona
On:9/13/2024 1:50:26 PM
Inst Id :WC
CONDUCTANCE

Alliance TECHNICAL GROUP

Analytical Summary Report

Analysis Method: SM2510 B
Parameter: Conductance
Run Number: LB132420

ANALYST: Niha
SUPERVISOR REVIEW BY: Iwona
Meter ID: WC CONDUCTANCE METER-1
Thermometer ID: WC PH METER-1

Reagent/Standard	Lot/Log #
conductivity standard	WP107551

Seq	Lab ID	True Value (mg/L)	Dilution	Temperature °C	Reading (umho/cm)	Result (umho/cm)	Anal Date	Anal Time
1	LB132420BL		1	23.0	0.92	0.96	09/13/2024	12:30
2	LB132420BS	1413	1	23.0	1372.00	1426.49	09/13/2024	12:35
3	P3848-07		1	23.5	753.00	775.21	09/13/2024	12:40

Note : Conductivity result is corrected to 25°C

$$\text{Result} = \frac{\text{(Reading)}}{1 + 0.0191\ (\text{Temperature} - 25)}$$

LB 132420

WORKLIST(Hardcopy Internal Chain)

WorkList Name : CONDUCTANCE-091320 **WorkList ID :** 183481 **Department :** Wet-Chemistry **Date :** 09-13-2024 11:16:13

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P3848-07	PT-COND-WP	Water	Conductance	Cool 4 deg C	CHEM02	QA Of	09/03/2024	SM2510 B

Date/Time 09.13.2024 , 11:30

Raw Sample Received by: NF (WC)

Raw Sample Relinquished by: SJ (QAO)

Date/Time NA

Raw Sample Received by: "

Raw Sample Relinquished by: "

Reviewed By:iwona
On:9/13/2024 1:50:04 PM
Inst Id :WC
CONDUCTANCE

Reviewed By:Iwona
On:9/13/2024 4:04:26 PM
Inst Id :Nessler Tubes
LB :LB132434

Analytical Summary Report

Analysis Method: SM2120 B
Parameter: Color
Run Number: LB132434
Reviewed By: Niha
Supervisor Review By: Iwona
pH Meter ID: PH METER-1

Reagent/Standard	Lot/Log #
Calibration std, 0 color unit	WP109700
Calibration std, 5 color unit	WP109701
Calibration std, 10 color unit	WP109702
Calibration std, 15 color unit	WP109704
Calibration std, 20 color unit	WP109715
Calibration std, 25 color unit	WP109705
Calibration std, 30 color unit	WP109706
Calibration std, 40 color unit	WP109707
Calibration std, 50 color unit	WP109708
Calibration std, 60 color unit	WP109709
Calibration std, 70 color unit	WP109710
Calibration std, 100 color unit	WP109712

Seq	LabID	ClientID	DL	pH Reading	pH Adjustment	Result (cu)	Anal Date	Anal Time
1	LB132434BL	LB132434BL	1	5.04	N/A	0.00	09/13/2024	15:00
2	P3848-27	PT-COL-WP	1	1.54	N/A	40.00	09/13/2024	15:05

WORKLIST(Hardcopy Internal Chain)

LB132434

WorkList Name : COLOR PT-09132024 **WorkList ID :** 183490 **Department :** Wet-Chemistry **Date :** 09-13-2024 13:48:02

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P3848-27	PT-COL-WP	Water	Color	Cool 4 deg C	CHEM02	QA Of	09/03/2024	SM2120 B

Date/Time 09.13.2024 , 14:00

Raw Sample Received by: NF(WC)

Raw Sample Relinquished by: SJ (QAO)

Date/Time NA

Raw Sample Received by: "

Raw Sample Relinquished by: "

Reviewed By:Iwona
On:9/13/2024 4:04:26 PM
Inst Id :Nessler Tubes
LB :LB132434

Clear table

Instrument ID: IC-2 Analyst : IZ Method: 300.0 / 9056A

ident	concentration F-	concentration CL-	concentration NO2	concentration BR-	concentration NO3	concentration HPO4	concentration SO4	file name	date time	Initial wt/ Final Vol	Analyst
STD1	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	IC1-091624	2024-09-16 11:39:2	10	NF/IZ
STD2	0.424	0.637	0.645	2.133	0.536	1.071	3.306	IC1-091624	2024-09-16 12:00:4	10	NF/IZ
STD3	0.802	1.202	1.205	4.008	1.002	2.024	6.041	IC1-091624	2024-09-16 12:22:0	10	NF/IZ
STD4	1.007	1.523	1.517	5.064	1.267	2.521	7.591	IC1-091624	2024-09-16 12:43:3	10	NF/IZ
STD5	1.964	2.936	2.928	9.781	2.445	4.86	14.552	IC1-091624	2024-09-16 13:05:0	10	NF/IZ
STD6	3.962	5.921	5.921	19.755	4.924	9.91	29.354	IC1-091624	2024-09-16 13:26:2	10	NF/IZ
STD7	5.041	7.581	7.584	25.259	6.326	12.614	37.655	IC1-091624	2024-09-16 13:47:5	10	NF/IZ

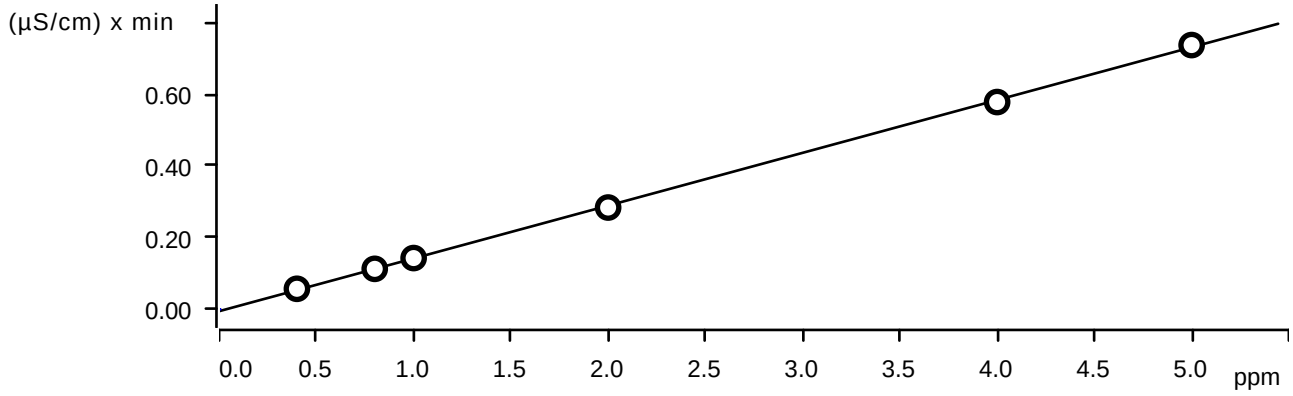
ident	True Value F-	True Value CL-	True Value NO2	True Value BR-	True Value NO3	True Value HPO4	True Value SO4
STD1	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
STD2	0.4000	0.6000	0.6000	2.0000	0.5000	1.0000	3.0000
STD3	0.8000	1.2000	1.2000	4.0000	1.0000	2.0000	6.0000
STD4	1.0000	1.5000	1.5000	5.0000	1.2500	2.5000	7.5000
STD5	2.0000	3.0000	3.0000	10.0000	2.5000	5.0000	15.0000
STD6	4.0000	6.0000	6.0000	20.0000	5.0000	10.0000	30.0000
STD7	5.0000	7.5000	7.5000	25.0000	6.2500	12.5000	37.0000

ident	Relative Error F-	Relative Error CL-	Relative Error NO2	Relative Error BR-	Relative Error NO3	Relative Error HPO4	Relative Error SO4
STD1							
STD2	6.0000	6.1667	7.5000	6.6500	7.2000	7.1000	10.2000
STD3	0.2500	0.1667	0.4167	0.2000	0.2000	1.2000	0.6833
STD4	0.7000	1.5333	1.1333	1.2800	1.3600	0.8400	1.2133
STD5	-1.8000	-2.1333	-2.4000	-2.1900	-2.2000	-2.8000	-2.9867
STD6	-0.9500	-1.3167	-1.3167	-1.2250	-1.5200	-0.9000	-2.1533
STD7	0.8200	1.0800	1.1200	1.0360	1.2160	0.9120	1.7703

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Fluoride (Anions)



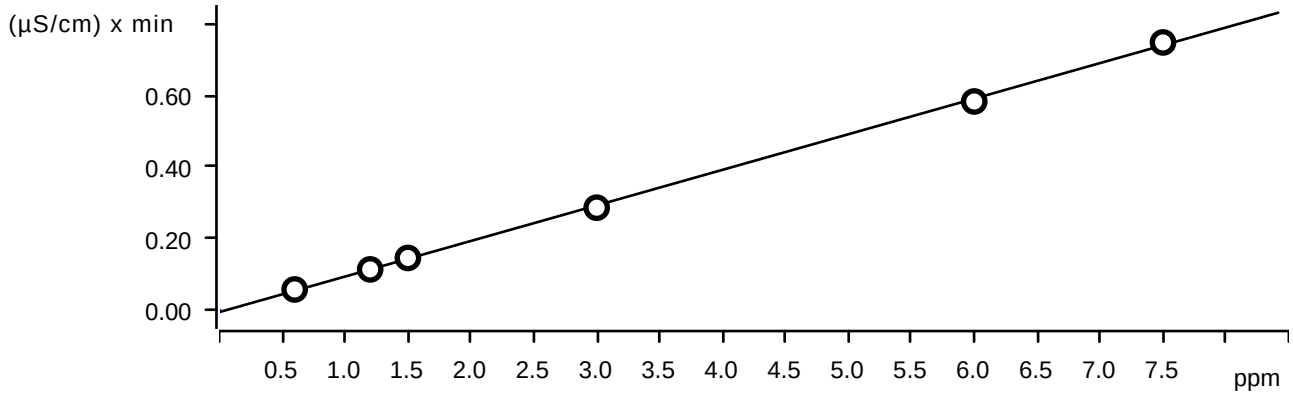
Function: . . . . . *A = - 5.20226E-3 + 0.0147183× Q*

Relative standard deviation . . . . . *1.655264 %*

Correlation coefficient *0.999855*

Sample type	Index	Conc.	Volume	Dilution	Sample amount	Area	Ident	Date	Used
Standard 1	1	0.000	10.0	1.0	1.0	n. d.	STD1	2024-09-16 11:39:22 UTC-4	used
Standard 2	1	0.400	10.0	1.0	1.0	0.057	STD2	2024-09-16 12:00:45 UTC-4	used
Standard 3	1	0.800	10.0	1.0	1.0	0.113	STD3	2024-09-16 12:22:09 UTC-4	used
Standard 4	1	1.000	10.0	1.0	1.0	0.143	STD4	2024-09-16 12:43:34 UTC-4	used
Standard 5	1	2.000	10.0	1.0	1.0	0.284	STD5	2024-09-16 13:05:00 UTC-4	used
Standard 6	1	4.000	10.0	1.0	1.0	0.578	STD6	2024-09-16 13:26:26 UTC-4	used
Standard 7	1	5.000	10.0	1.0	1.0	0.737	STD7	2024-09-16 13:47:53 UTC-4	used

Chloride (Anions)



Function: . . . . . *A = - 4.73518E-3 + 9.92061E-3× Q*

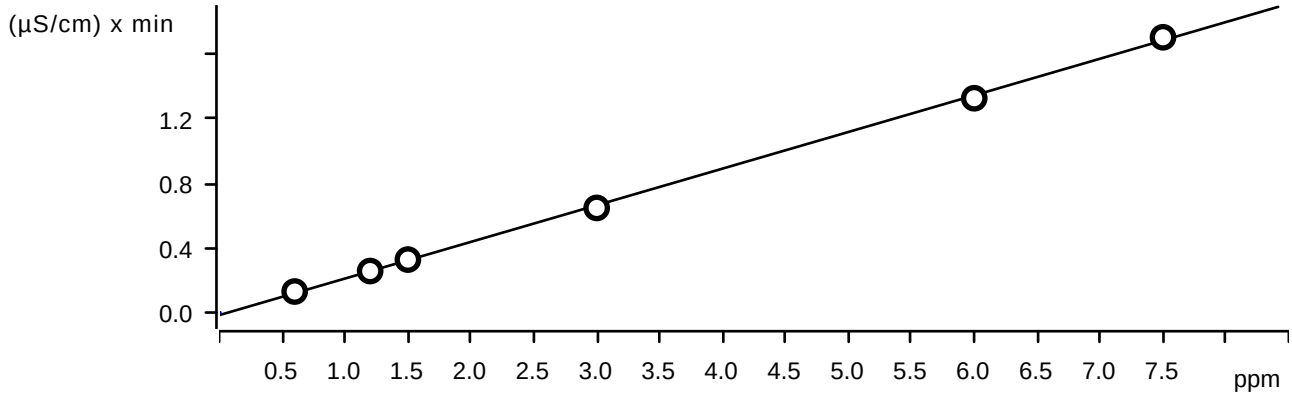
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Relative standard deviation . . . . . *2.104599 %*

Correlation coefficient *0.999766*

Sample type	Index	Conc.	Volume	Dilution	Sample amount	Area	Ident	Date	Used
Standard 1	1	0.000	10.0	1.0	1.0	n. d.	STD1	2024-09-16 11:39:22 UTC-4	used
Standard 2	1	0.600	10.0	1.0	1.0	0.058	STD2	2024-09-16 12:00:45 UTC-4	used
Standard 3	1	1.200	10.0	1.0	1.0	0.114	STD3	2024-09-16 12:22:09 UTC-4	used
Standard 4	1	1.500	10.0	1.0	1.0	0.146	STD4	2024-09-16 12:43:34 UTC-4	used
Standard 5	1	3.000	10.0	1.0	1.0	0.287	STD5	2024-09-16 13:05:00 UTC-4	used
Standard 6	1	6.000	10.0	1.0	1.0	0.583	STD6	2024-09-16 13:26:26 UTC-4	used
Standard 7	1	7.500	10.0	1.0	1.0	0.747	STD7	2024-09-16 13:47:53 UTC-4	used

Nitrite (Anions)



Function: . . . . . *A = - 0.0172576 + 0.0227000× Q*

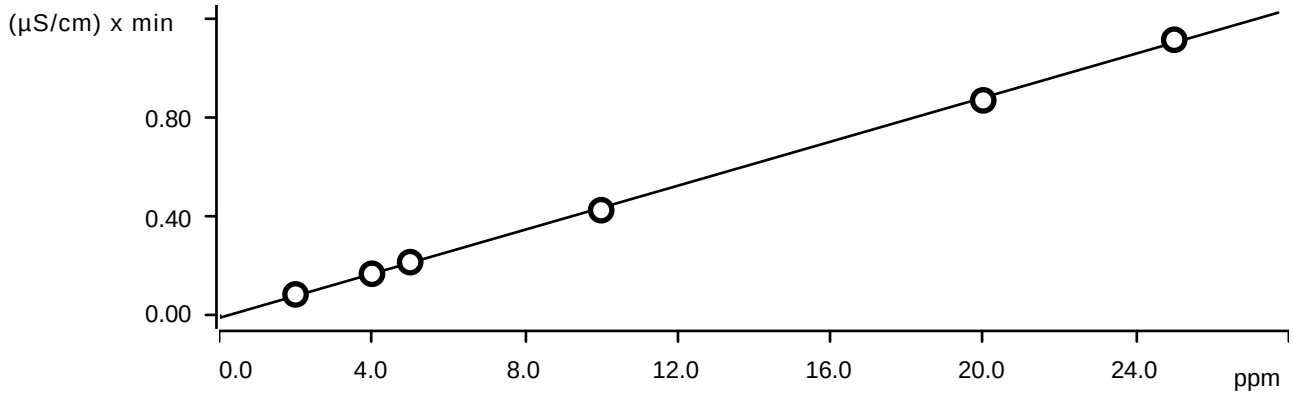
Relative standard deviation . . . . . *2.245267 %*

Correlation coefficient *0.999738*

Sample type	Index	Conc.	Volume	Dilution	Sample amount	Area	Ident	Date	Used
Standard 1	1	0.000	10.0	1.0	1.0	n. d.	STD1	2024-09-16 11:39:22 UTC-4	used
Standard 2	1	0.600	10.0	1.0	1.0	0.129	STD2	2024-09-16 12:00:45 UTC-4	used
Standard 3	1	1.200	10.0	1.0	1.0	0.256	STD3	2024-09-16 12:22:09 UTC-4	used
Standard 4	1	1.500	10.0	1.0	1.0	0.327	STD4	2024-09-16 12:43:34 UTC-4	used
Standard 5	1	3.000	10.0	1.0	1.0	0.647	STD5	2024-09-16 13:05:00 UTC-4	used
Standard 6	1	6.000	10.0	1.0	1.0	1.327	STD6	2024-09-16 13:26:26 UTC-4	used
Standard 7	1	7.500	10.0	1.0	1.0	1.704	STD7	2024-09-16 13:47:53 UTC-4	used

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Bromide (Anions)



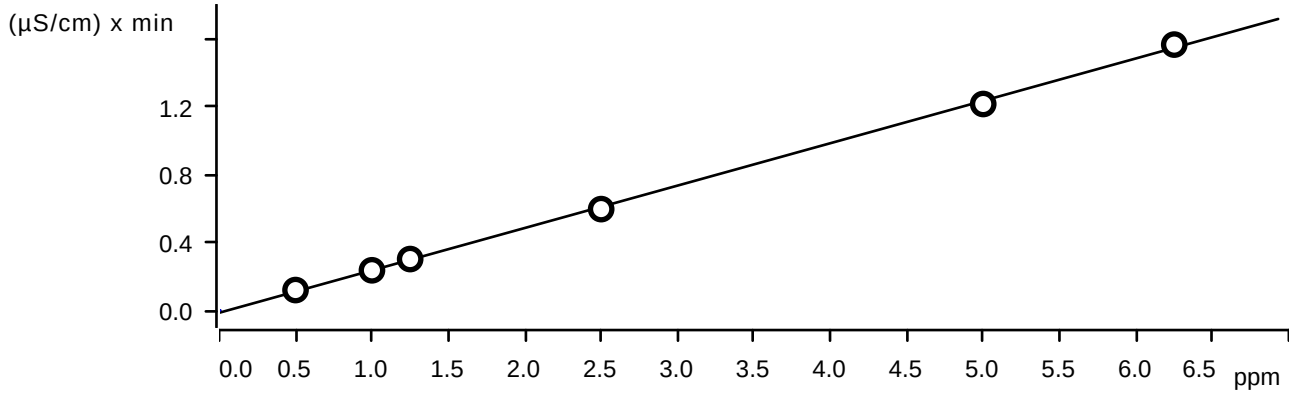
Function: . . . . . *A = - 8.29886E-3 + 4.43473E-3× Q*

Relative standard deviation . . . . . *2.051807 %*

Correlation coefficient *0.999778*

Sample type	Index	Conc.	Volume	Dilution	Sample amount	Area	Ident	Date	Used
Standard 1	1	0.000	10.0	1.0	1.0	n. d.	STD1	2024-09-16 11:39:22 UTC-4	used
Standard 2	1	2.000	10.0	1.0	1.0	0.086	STD2	2024-09-16 12:00:45 UTC-4	used
Standard 3	1	4.000	10.0	1.0	1.0	0.169	STD3	2024-09-16 12:22:09 UTC-4	used
Standard 4	1	5.000	10.0	1.0	1.0	0.216	STD4	2024-09-16 12:43:34 UTC-4	used
Standard 5	1	10.000	10.0	1.0	1.0	0.425	STD5	2024-09-16 13:05:00 UTC-4	used
Standard 6	1	20.000	10.0	1.0	1.0	0.868	STD6	2024-09-16 13:26:26 UTC-4	used
Standard 7	1	25.000	10.0	1.0	1.0	1.112	STD7	2024-09-16 13:47:53 UTC-4	used

Nitrate (Anions)



Function: . . . . . *A = - 0.0140308 + 0.0249539× Q*

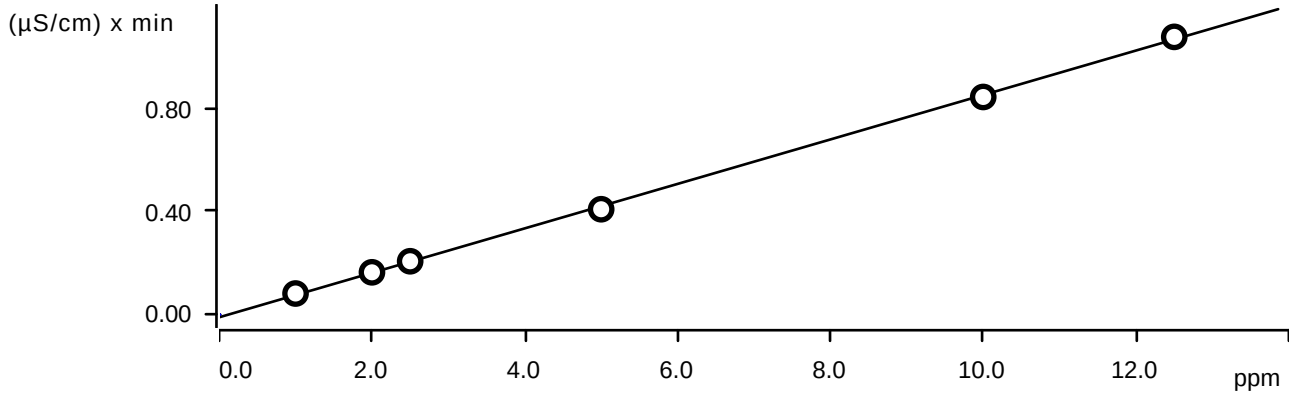
Relative standard deviation . . . . . *2.352995 %*

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Correlation coefficient *0.999711*

Sample type	Index	Conc.	Volume	Dilution	Sample amount	Area	Ident	Date	Used
Standard 1	1	0.000	10.0	1.0	1.0	n. d.	STD1	2024-09-16 11:39:22 UTC-4	used
Standard 2	1	0.500	10.0	1.0	1.0	0.120	STD2	2024-09-16 12:00:45 UTC-4	used
Standard 3	1	1.000	10.0	1.0	1.0	0.236	STD3	2024-09-16 12:22:09 UTC-4	used
Standard 4	1	1.250	10.0	1.0	1.0	0.302	STD4	2024-09-16 12:43:34 UTC-4	used
Standard 5	1	2.500	10.0	1.0	1.0	0.596	STD5	2024-09-16 13:05:00 UTC-4	used
Standard 6	1	5.000	10.0	1.0	1.0	1.215	STD6	2024-09-16 13:26:26 UTC-4	used
Standard 7	1	6.250	10.0	1.0	1.0	1.565	STD7	2024-09-16 13:47:53 UTC-4	used

Phosphate (Anions)



Function: . . . . . *A = - 0.0104137 + 8.60889E-3× Q*

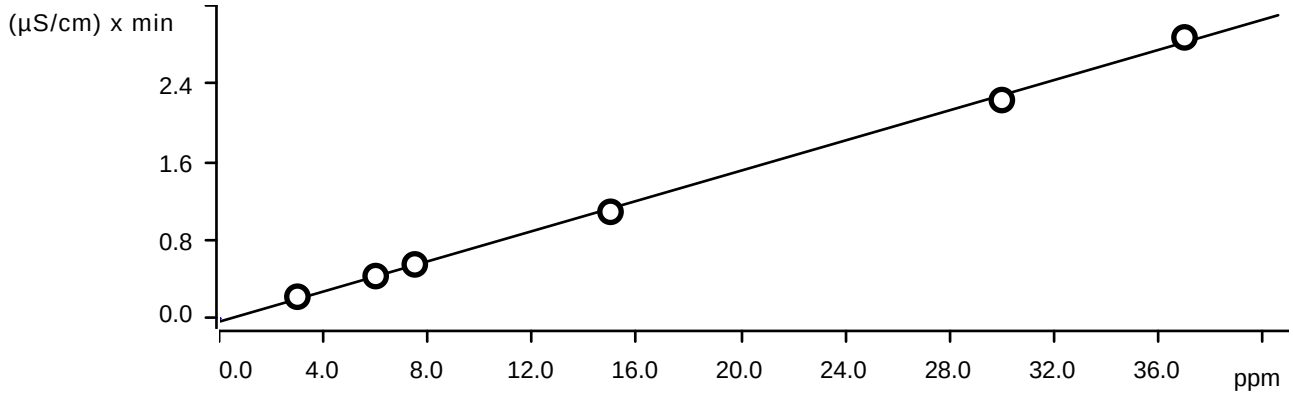
Relative standard deviation . . . . . *2.003622 %*

Correlation coefficient *0.999791*

Sample type	Index	Conc.	Volume	Dilution	Sample amount	Area	Ident	Date	Used
Standard 1	1	0.000	10.0	1.0	1.0	n. d.	STD1	2024-09-16 11:39:22 UTC-4	used
Standard 2	1	1.000	10.0	1.0	1.0	0.082	STD2	2024-09-16 12:00:45 UTC-4	used
Standard 3	1	2.000	10.0	1.0	1.0	0.164	STD3	2024-09-16 12:22:09 UTC-4	used
Standard 4	1	2.500	10.0	1.0	1.0	0.207	STD4	2024-09-16 12:43:34 UTC-4	used
Standard 5	1	5.000	10.0	1.0	1.0	0.408	STD5	2024-09-16 13:05:00 UTC-4	used
Standard 6	1	10.000	10.0	1.0	1.0	0.843	STD6	2024-09-16 13:26:26 UTC-4	used
Standard 7	1	12.500	10.0	1.0	1.0	1.075	STD7	2024-09-16 13:47:53 UTC-4	used

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Sulfate (Anions)



Function: . . . . . *A = - 0.0328706 + 7.71866E-3× Q*

Relative standard deviation . . . . . *3.353471 %*

Correlation coefficient *0.999413*

Sample type	Index	Conc.	Volume	Dilution	Sample amount	Area	Ident	Date	Used
Standard 1	1	0.000	10.0	1.0	1.0	n. d.	STD1	2024-09-16 11:39:22 UTC-4	used
Standard 2	1	3.000	10.0	1.0	1.0	0.222	STD2	2024-09-16 12:00:45 UTC-4	used
Standard 3	1	6.000	10.0	1.0	1.0	0.433	STD3	2024-09-16 12:22:09 UTC-4	used
Standard 4	1	7.500	10.0	1.0	1.0	0.553	STD4	2024-09-16 12:43:34 UTC-4	used
Standard 5	1	15.000	10.0	1.0	1.0	1.090	STD5	2024-09-16 13:05:00 UTC-4	used
Standard 6	1	30.000	10.0	1.0	1.0	2.233	STD6	2024-09-16 13:26:26 UTC-4	used
Standard 7	1	37.000	10.0	1.0	1.0	2.874	STD7	2024-09-16 13:47:53 UTC-4	used

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LB :LB132464

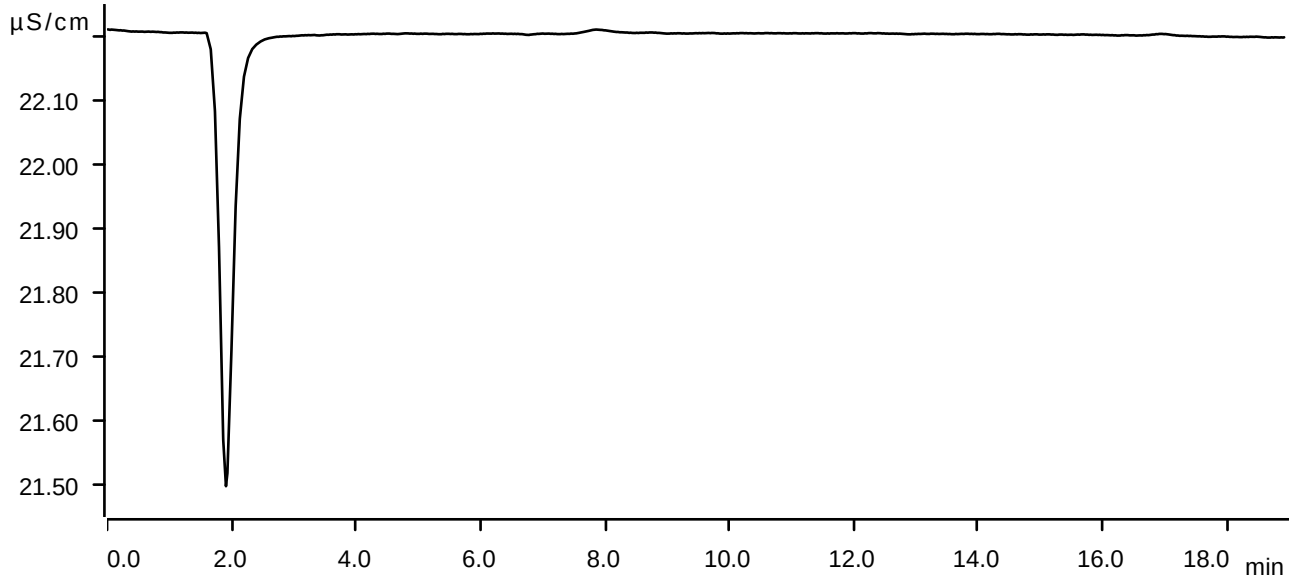
Sample data

Ident	STD1
Sample type	Standard 1
Determination start	2024-09-16 11:39:22 UTC-4
Method	IC1-091624
Operator	

Anions

Data source	Conductivity detector 1 (Eco IC 1)	
Channel	Conductivity	
Recording time	19.0	min
Integration	Automatically	
Column type	Metrosep A Supp 19 - 150/4.0	
Eluent composition	not defined	
Flow	0.700	mL/min
Maximum flow monitored	yes	
Pressure	12.39	MPa
Maximum pressure monitored	yes	
Temperature	-----	°C

Anions



Reviewed By:Iwon
On:9/19/2024 9:54 AM
Inst Id :IC-2
LB :LB132464

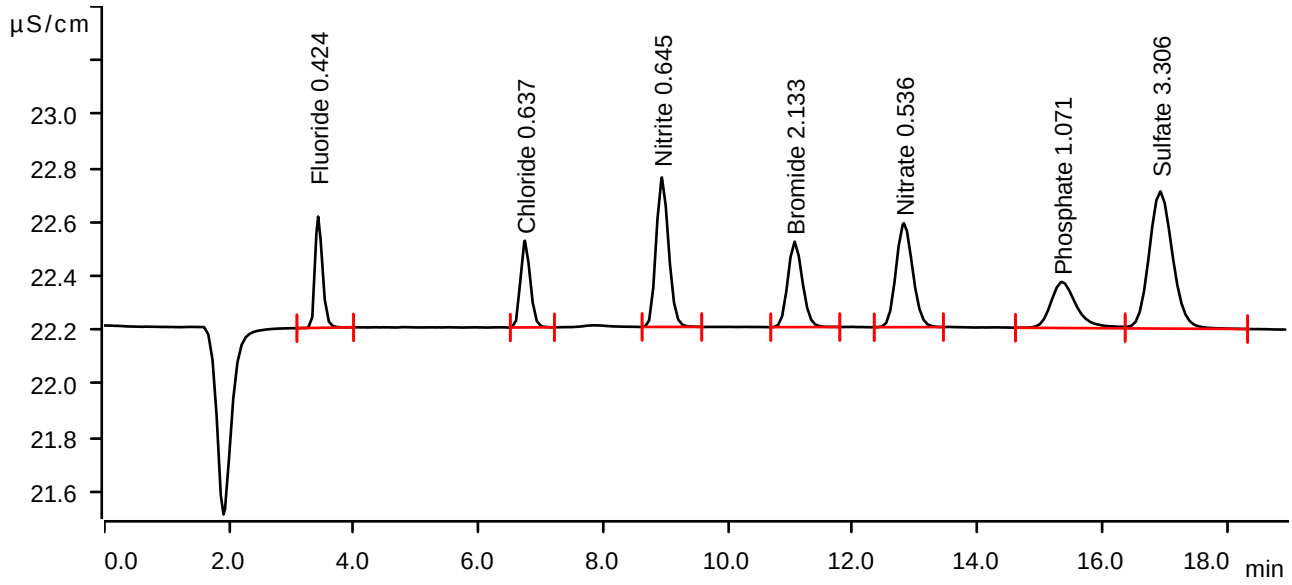
Sample data

Ident	STD2
Sample type	Standard 2
Determination start	2024-09-16 12:00:45 UTC-4
Method	IC1-091624
Operator	

Anions

Data source	Conductivity detector 1 (Eco IC 1)	
Channel	Conductivity	
Recording time	19.0	min
Integration	Automatically	
Column type	Metrosep A Supp 19 - 150/4.0	
Eluent composition	not defined	
Flow	0.700	mL/min
Maximum flow monitored	yes	
Pressure	12.33	MPa
Maximum pressure monitored	yes	
Temperature	-----	°C

Anions



Peak number	Retention time min	Area (µS/cm) x min	Height µS/cm	Concentration ppm	Component name
1	3.428	0.0572	0.413	0.424	Fluoride
2	6.743	0.0585	0.322	0.637	Chloride
3	8.940	0.1292	0.555	0.645	Nitrite
4	11.067	0.0863	0.317	2.133	Bromide
5	12.818	0.1197	0.385	0.536	Nitrate
6	15.352	0.0818	0.171	1.071	Phosphate
7	16.930	0.2223	0.508	3.306	Sulfate

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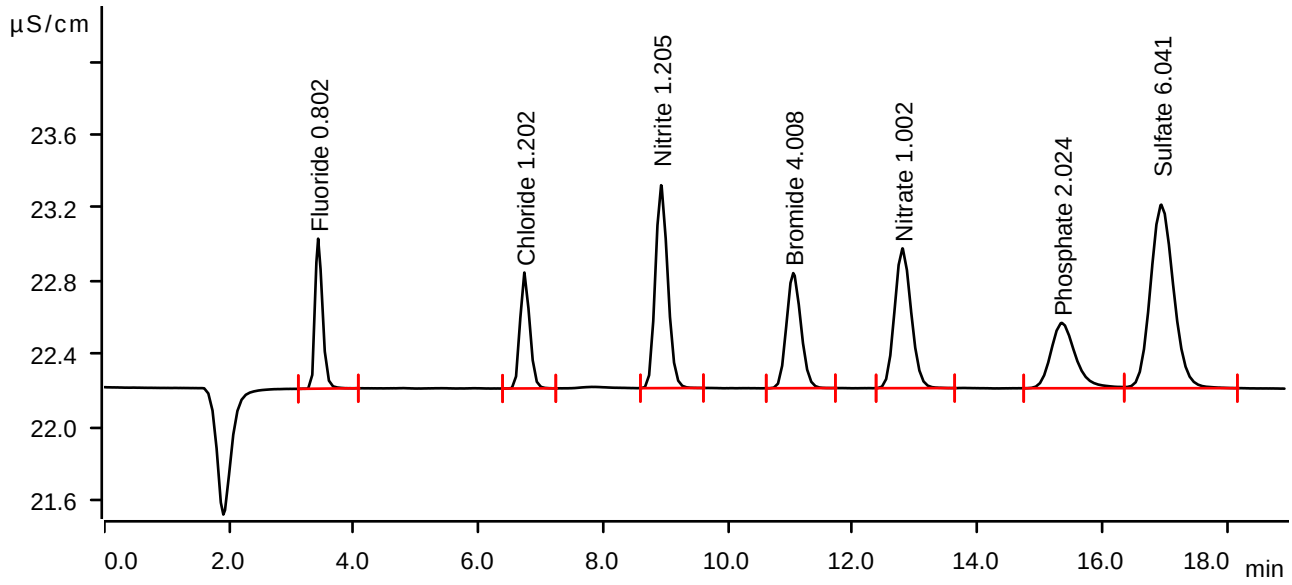
Sample data

Ident	STD3
Sample type	Standard 3
Determination start	2024-09-16 12:22:09 UTC-4
Method	IC1-091624
Operator	

Anions

Data source	Conductivity detector 1 (Eco IC 1)	
Channel	Conductivity	
Recording time	19.0	min
Integration	Automatically	
Column type	Metrosep A Supp 19 - 150/4.0	
Eluent composition	not defined	
Flow	0.700	mL/min
Maximum flow monitored	yes	
Pressure	12.22	MPa
Maximum pressure monitored	yes	
Temperature	-----	°C

Anions



Peak number	Retention time min	Area (µS/cm) x min	Height µS/cm	Concentration ppm	Component name
1	3.428	0.1129	0.820	0.802	Fluoride
2	6.735	0.1145	0.634	1.202	Chloride
3	8.927	0.2562	1.109	1.205	Nitrite
4	11.045	0.1695	0.629	4.008	Bromide
5	12.795	0.2360	0.764	1.002	Nitrate
6	15.353	0.1638	0.357	2.024	Phosphate
7	16.947	0.4334	1.003	6.041	Sulfate

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LB :LB132464

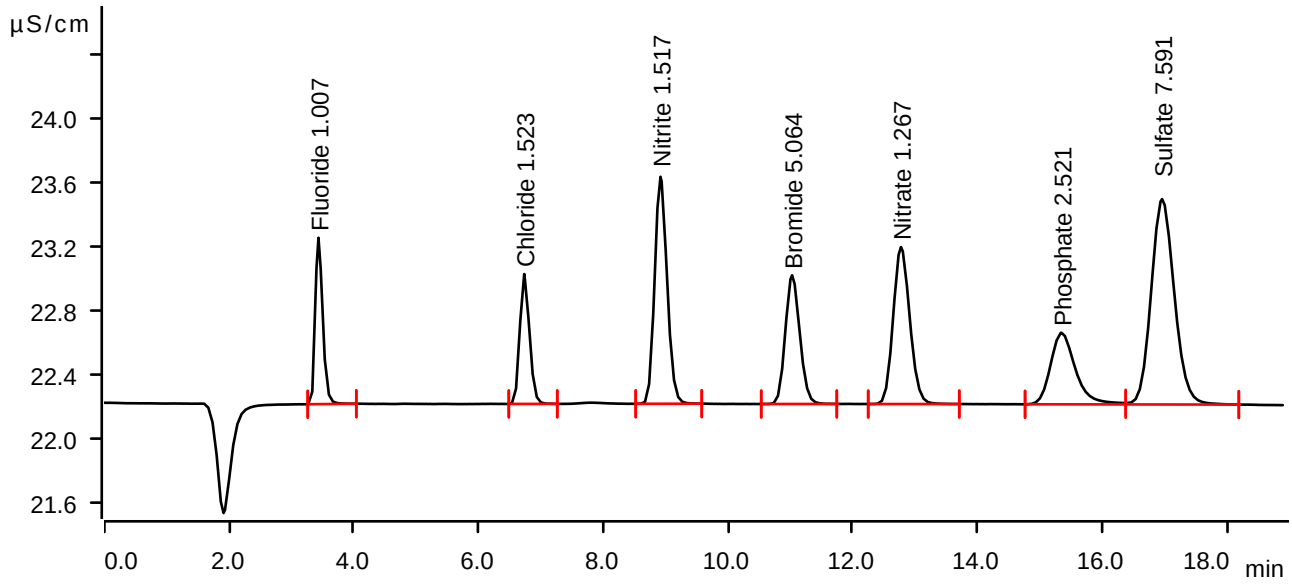
Sample data

Ident	STD4
Sample type	Standard 4
Determination start	2024-09-16 12:43:34 UTC-4
Method	IC1-091624
Operator	

Anions

Data source	Conductivity detector 1 (Eco IC 1)	
Channel	Conductivity	
Recording time	19.0	min
Integration	Automatically	
Column type	Metrosep A Supp 19 - 150/4.0	
Eluent composition	not defined	
Flow	0.700	mL/min
Maximum flow monitored	yes	
Pressure	12.11	MPa
Maximum pressure monitored	yes	
Temperature	-----	°C

Anions



Peak number	Retention time min	Area (µS/cm) x min	Height µS/cm	Concentration ppm	Component name
1	3.433	0.1429	1.040	1.007	Fluoride
2	6.732	0.1464	0.811	1.523	Chloride
3	8.917	0.3271	1.418	1.517	Nitrite
4	11.027	0.2163	0.804	5.064	Bromide
5	12.772	0.3021	0.981	1.267	Nitrate
6	15.345	0.2066	0.448	2.521	Phosphate
7	16.958	0.5530	1.283	7.591	Sulfate

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Inst Id :IC-2
LB :LB132464

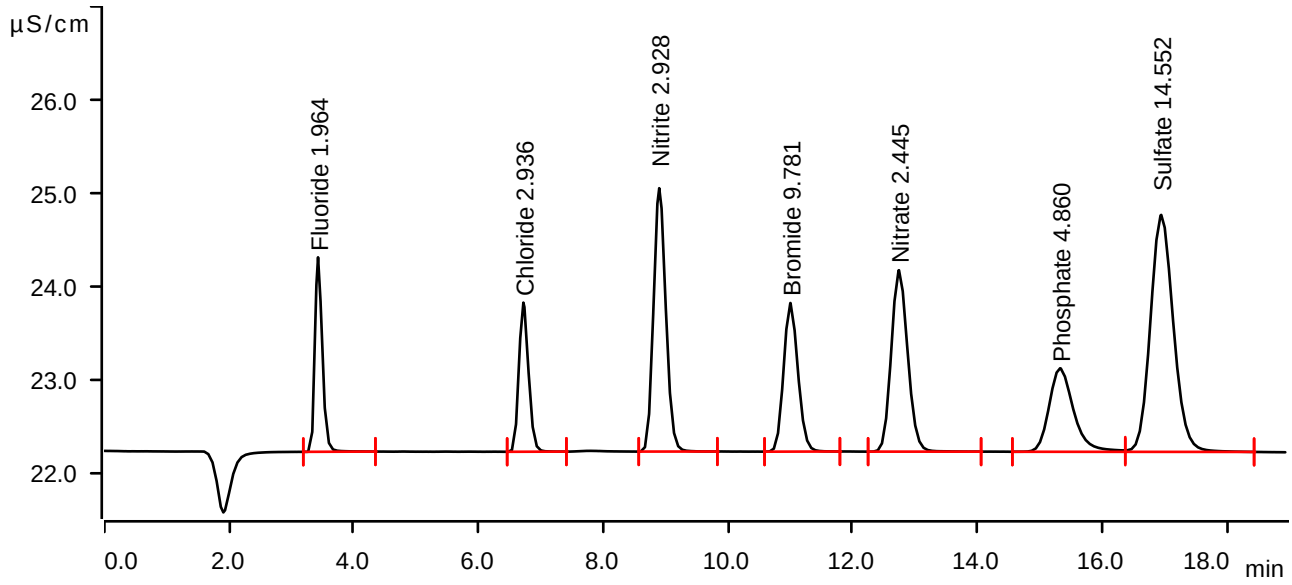
Sample data

Ident	STD5
Sample type	Standard 5
Determination start	2024-09-16 13:05:00 UTC-4
Method	IC1-091624
Operator	

Anions

Data source	Conductivity detector 1 (Eco IC 1)	
Channel	Conductivity	
Recording time	19.0	min
Integration	Automatically	
Column type	Metrosep A Supp 19 - 150/4.0	
Eluent composition	not defined	
Flow	0.700	mL/min
Maximum flow monitored	yes	
Pressure	12.05	MPa
Maximum pressure monitored	yes	
Temperature	-----	°C

Anions



Peak number	Retention time min	Area (µS/cm) x min	Height µS/cm	Concentration ppm	Component name
1	3.427	0.2838	2.088	1.964	Fluoride
2	6.718	0.2865	1.601	2.936	Chloride
3	8.897	0.6473	2.828	2.928	Nitrite
4	10.998	0.4255	1.596	9.781	Bromide
5	12.740	0.5961	1.949	2.445	Nitrate
6	15.323	0.4080	0.897	4.860	Phosphate
7	16.945	1.0904	2.544	14.552	Sulfate

Reviewed By:Iwon
On:9/19/2024 9:54
AM
Inst Id :IC-2
LB :LB132464

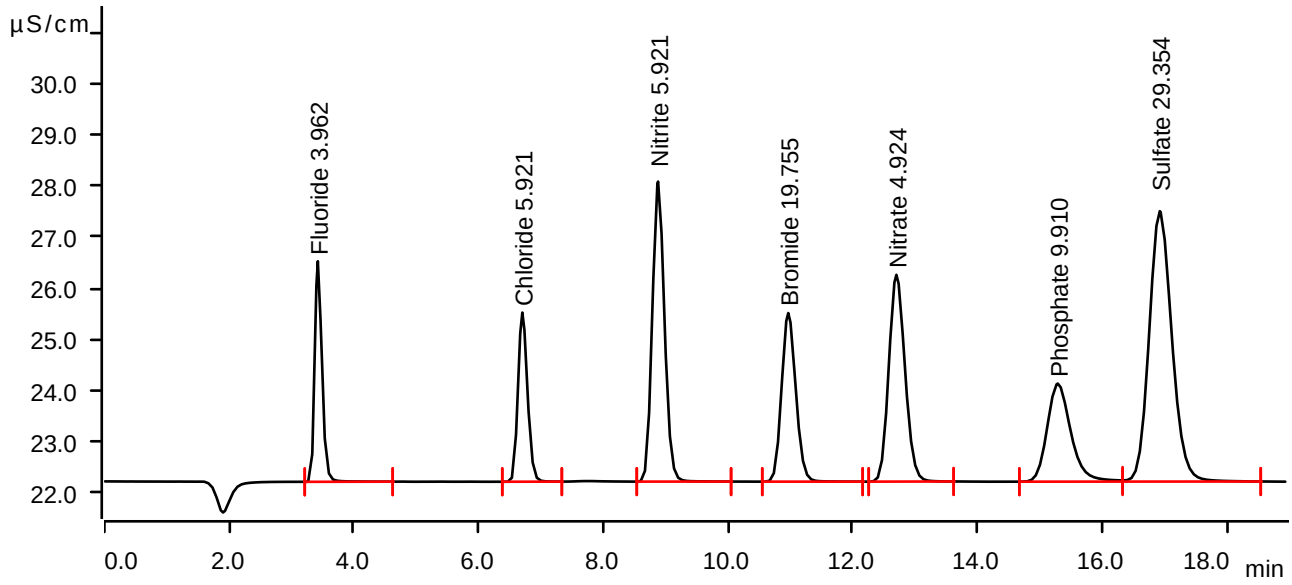
Sample data

Ident	STD6
Sample type	Standard 6
Determination start	2024-09-16 13:26:26 UTC-4
Method	IC1-091624
Operator	

Anions

Data source	Conductivity detector 1 (Eco IC 1)	
Channel	Conductivity	
Recording time	19.0	min
Integration	Automatically	
Column type	Metrosep A Supp 19 - 150/4.0	
Eluent composition	not defined	
Flow	0.700	mL/min
Maximum flow monitored	yes	
Pressure	12.22	MPa
Maximum pressure monitored	yes	
Temperature	-----	°C

Anions



Peak number	Retention time min	Area (µS/cm) x min	Height µS/cm	Concentration ppm	Component name
1	3.423	0.5779	4.306	3.962	Fluoride
2	6.702	0.5827	3.302	5.921	Chloride
3	8.878	1.3268	5.858	5.921	Nitrite
4	10.965	0.8678	3.292	19.755	Bromide
5	12.698	1.2148	4.037	4.924	Nitrate
6	15.287	0.8428	1.914	9.910	Phosphate
7	16.922	2.2329	5.279	29.354	Sulfate

Reviewed By:Iwon
On:9/19/2024 9:54 AM
Inst Id :IC-2
LB :LB132464

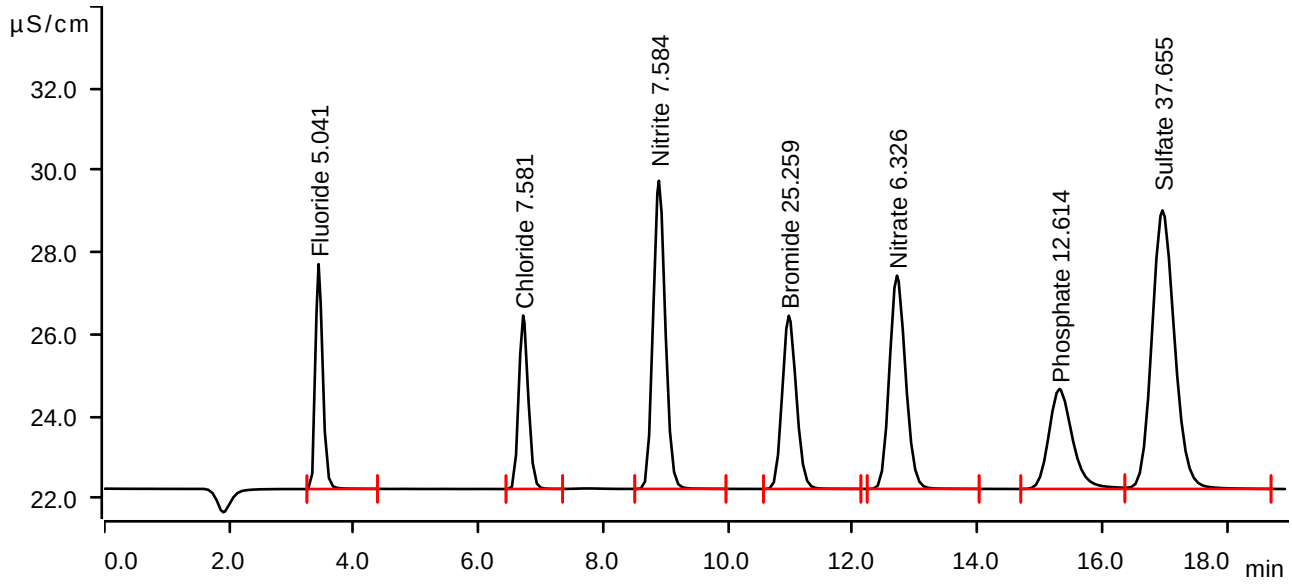
Sample data

Ident	STD7
Sample type	Standard 7
Determination start	2024-09-16 13:47:53 UTC-4
Method	IC1-091624
Operator	

Anions

Data source	Conductivity detector 1 (Eco IC 1)	
Channel	Conductivity	
Recording time	19.0	min
Integration	Automatically	
Column type	Metrosep A Supp 19 - 150/4.0	
Eluent composition	not defined	
Flow	0.700	mL/min
Maximum flow monitored	yes	
Pressure	12.16	MPa
Maximum pressure monitored	yes	
Temperature	-----	°C

Anions



Peak number	Retention time min	Area (µS/cm) x min	Height µS/cm	Concentration ppm	Component name
1	3.435	0.7368	5.489	5.041	Fluoride
2	6.715	0.7473	4.234	7.581	Chloride
3	8.892	1.7044	7.521	7.584	Nitrite
4	10.973	1.1119	4.227	25.259	Bromide
5	12.708	1.5645	5.205	6.326	Nitrate
6	15.313	1.0755	2.439	12.614	Phosphate
7	16.965	2.8736	6.798	37.655	Sulfate

Reviewed By:Iwon
On:9/19/2024 9:54 AM
Inst Id :IC-2
LB :LB132464

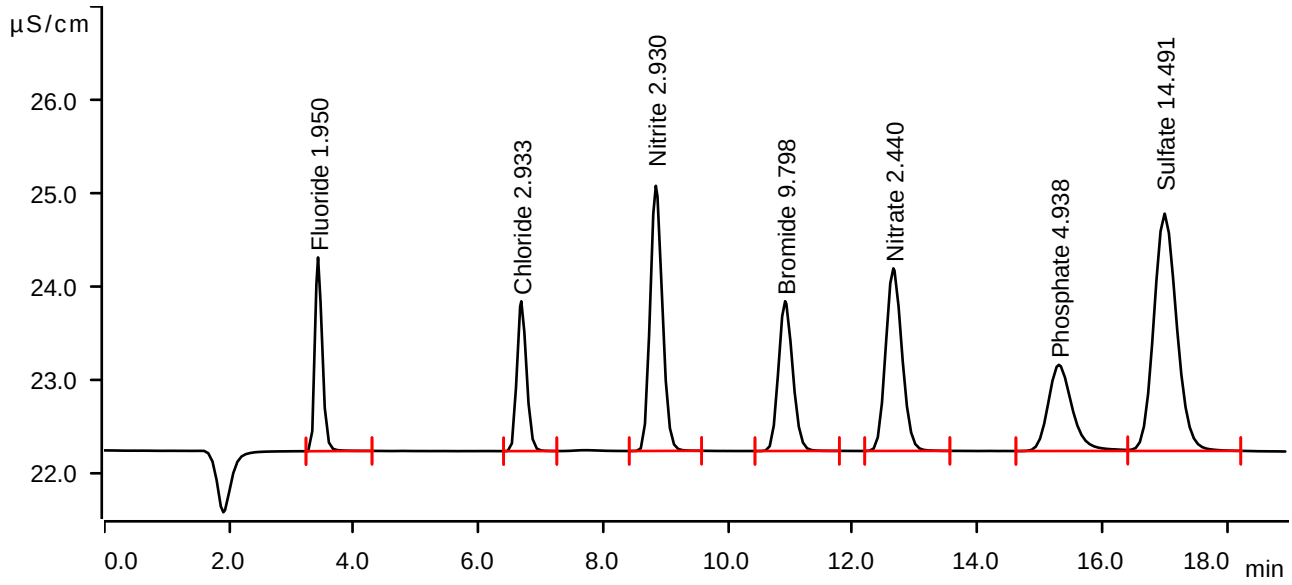
Sample data

Ident	ICV
Sample type	Check standard 1
Determination start	2024-09-16 15:00:21 UTC-4
Method	IC1-091624
Operator	

Anions

Data source	Conductivity detector 1 (Eco IC 1)	
Channel	Conductivity	
Recording time	19.0	min
Integration	Automatically	
Column type	Metrosep A Supp 19 - 150/4.0	
Eluent composition	not defined	
Flow	0.700	mL/min
Maximum flow monitored	yes	
Pressure	11.88	MPa
Maximum pressure monitored	yes	
Temperature	-----	°C

Anions



Peak number	Retention time min	Area (µS/cm) x min	Height µS/cm	Concentration ppm	Component name
1	3.427	0.2818	2.081	1.950	Fluoride
2	6.685	0.2862	1.608	2.933	Chloride
3	8.842	0.6478	2.847	2.930	Nitrite
4	10.915	0.4262	1.608	9.798	Bromide
5	12.650	0.5947	1.960	2.440	Nitrate
6	15.303	0.4147	0.925	4.938	Phosphate
7	16.998	1.0857	2.548	14.491	Sulfate

Reviewed By:Iwon
On:9/19/2024 9:54
AM
Inst Id :IC-2
LB :LB132464

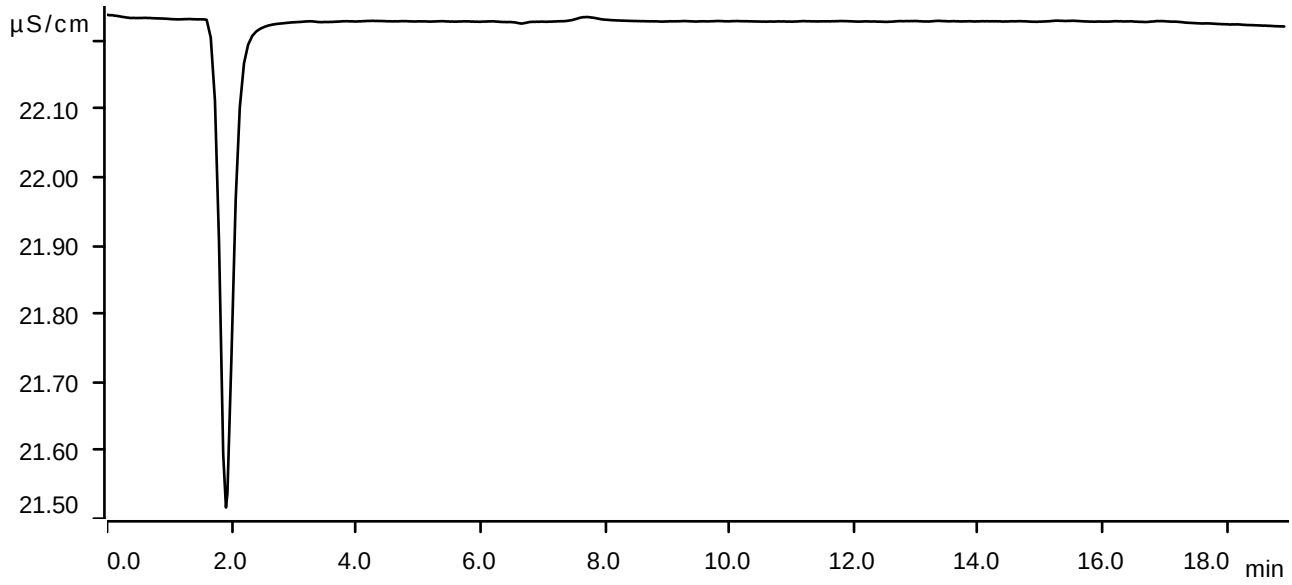
Sample data

Ident	ICB
Sample type	Sample
Determination start	2024-09-16 15:21:50 UTC-4
Method	IC1-091624
Operator	

Anions

Data source	Conductivity detector 1 (Eco IC 1)	
Channel	Conductivity	
Recording time	19.0	min
Integration	Automatically	
Column type	Metrosep A Supp 19 - 150/4.0	
Eluent composition	not defined	
Flow	0.700	mL/min
Maximum flow monitored	yes	
Pressure	12.22	MPa
Maximum pressure monitored	yes	
Temperature	-----	°C

Anions



Reviewed By:Iwon
On:9/19/2024 9:54
AM
Inst Id :IC-2
LB :LB132464

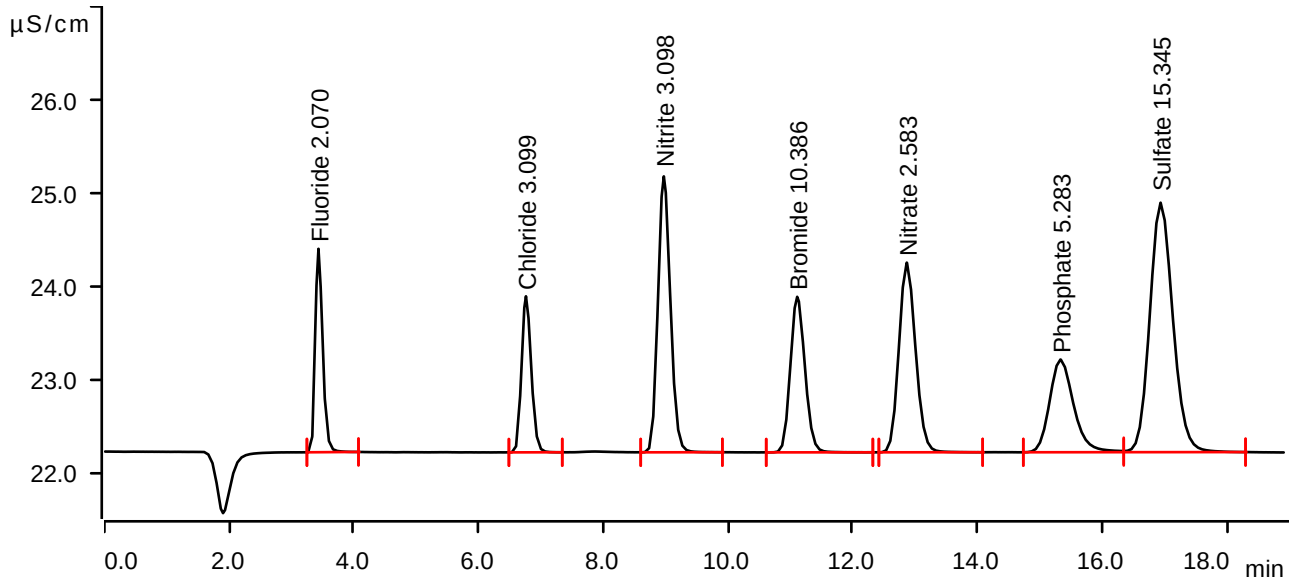
Sample data

Ident	CCV
Sample type	Check standard 1
Determination start	2024-09-17 10:31:07 UTC-4
Method	IC1-091624
Operator	

Anions

Data source	Conductivity detector 1 (Eco IC 1)	
Channel	Conductivity	
Recording time	19.0	min
Integration	Automatically	
Column type	Metrosep A Supp 19 - 150/4.0	
Eluent composition	not defined	
Flow	0.700	mL/min
Maximum flow monitored	yes	
Pressure	12.56	MPa
Maximum pressure monitored	yes	
Temperature	-----	°C

Anions



Peak number	Retention time min	Area (µS/cm) x min	Height µS/cm	Concentration ppm	Component name
1	3.433	0.2995	2.184	2.070	Fluoride
2	6.760	0.3027	1.676	3.099	Chloride
3	8.970	0.6861	2.963	3.098	Nitrite
4	11.108	0.4523	1.670	10.386	Bromide
5	12.863	0.6306	2.037	2.583	Nitrate
6	15.328	0.4444	0.995	5.283	Phosphate
7	16.935	1.1515	2.678	15.345	Sulfate

Reviewed By:Iwon
On:9/19/2024 9:54
AM
Inst Id :IC-2
LB :LB132464

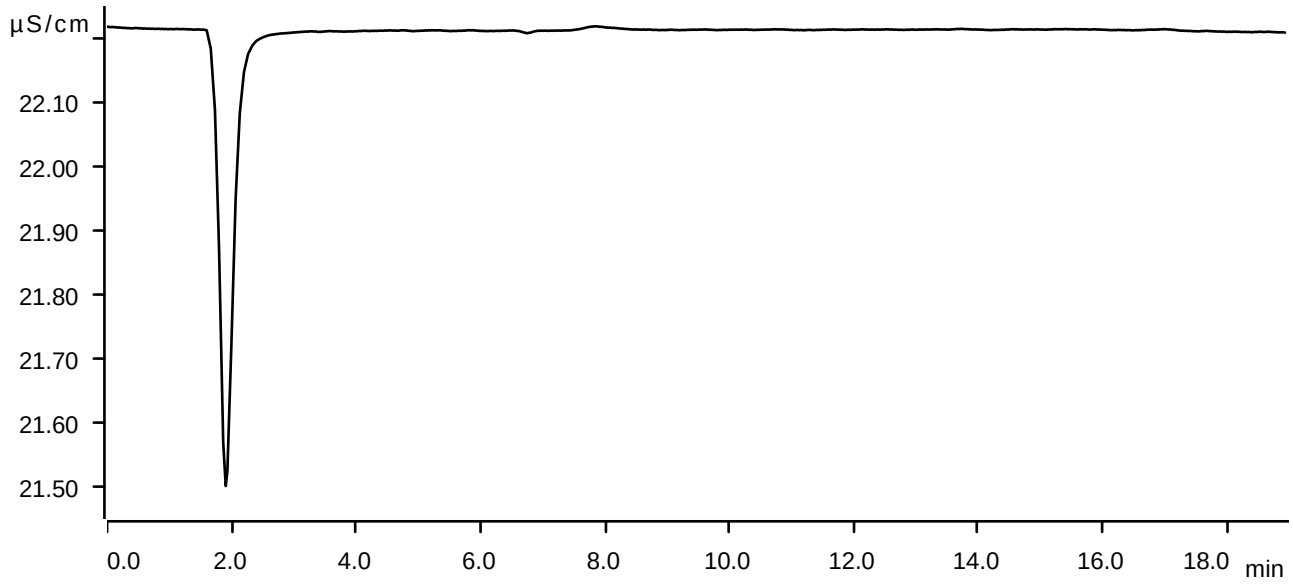
Sample data

Ident	CCB
Sample type	Sample
Determination start	2024-09-17 10:52:37 UTC-4
Method	IC1-091624
Operator	

Anions

Data source	Conductivity detector 1 (Eco IC 1)	
Channel	Conductivity	
Recording time	19.0	min
Integration	Automatically	
Column type	Metrosep A Supp 19 - 150/4.0	
Eluent composition	not defined	
Flow	0.700	mL/min
Maximum flow monitored	yes	
Pressure	12.27	MPa
Maximum pressure monitored	yes	
Temperature	-----	°C

Anions



Reviewed By:Iwon
On:9/19/2024 9:54
AM
Inst Id :IC-2
LB :LB132464

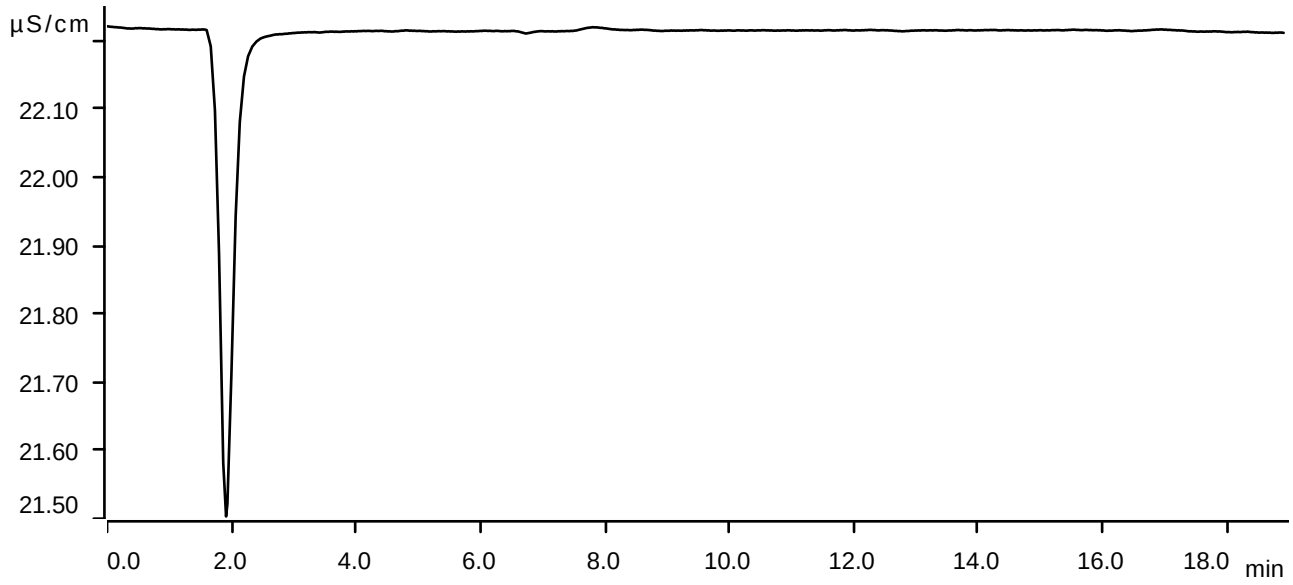
Sample data

Ident	LB132464BLW
Sample type	Sample
Determination start	2024-09-17 11:14:06 UTC-4
Method	IC1-091624
Operator	

Anions

Data source	Conductivity detector 1 (Eco IC 1)	
Channel	Conductivity	
Recording time	19.0	min
Integration	Automatically	
Column type	Metrosep A Supp 19 - 150/4.0	
Eluent composition	not defined	
Flow	0.700	mL/min
Maximum flow monitored	yes	
Pressure	12.22	MPa
Maximum pressure monitored	yes	
Temperature	-----	°C

Anions



Reviewed By:Iwon
On:9/19/2024 9:54
AM
Inst Id :IC-2
LB :LB132464

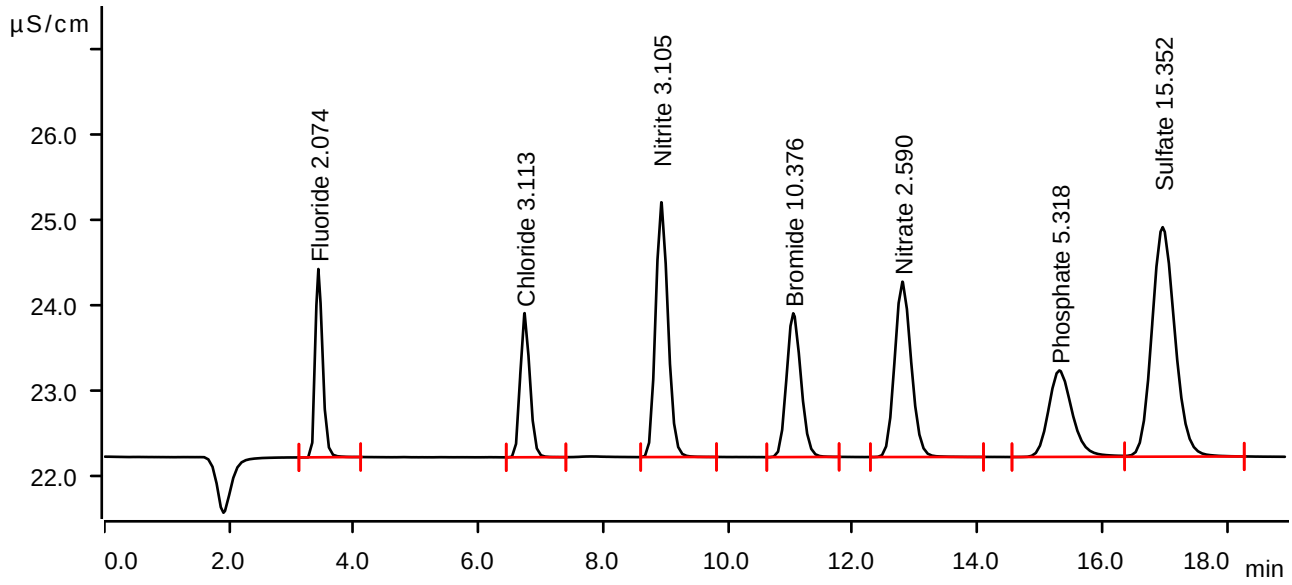
Sample data

Ident	LB132464BSW
Sample type	Check standard 1
Determination start	2024-09-17 11:35:37 UTC-4
Method	IC1-091624
Operator	

Anions

Data source	Conductivity detector 1 (Eco IC 1)	
Channel	Conductivity	
Recording time	19.0	min
Integration	Automatically	
Column type	Metrosep A Supp 19 - 150/4.0	
Eluent composition	not defined	
Flow	0.700	mL/min
Maximum flow monitored	yes	
Pressure	12.11	MPa
Maximum pressure monitored	yes	
Temperature	-----	°C

Anions



Peak number	Retention time min	Area (µS/cm) x min	Height µS/cm	Concentration ppm	Component name
1	3.432	0.3001	2.206	2.074	Fluoride
2	6.738	0.3041	1.688	3.113	Chloride
3	8.930	0.6876	2.984	3.105	Nitrite
4	11.045	0.4518	1.684	10.376	Bromide
5	12.795	0.6322	2.054	2.590	Nitrate
6	15.312	0.4474	1.013	5.318	Phosphate
7	16.968	1.1521	2.688	15.352	Sulfate

Reviewed By:Iwon
On:9/19/2024 9:54
AM
Inst Id :IC-2
LB :LB132464

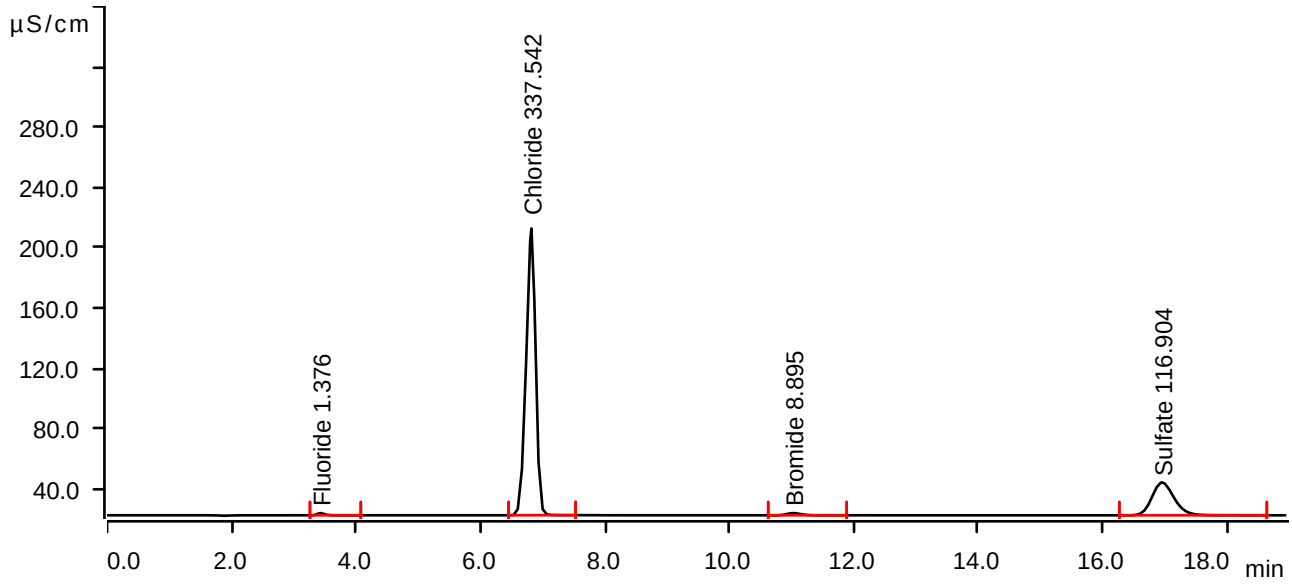
Sample data

Ident	P3848-05
Sample type	Sample
Determination start	2024-09-17 12:03:42 UTC-4
Method	IC1-091624
Operator	

Anions

Data source	Conductivity detector 1 (Eco IC 1)	
Channel	Conductivity	
Recording time	19.0	min
Integration	Automatically	
Column type	Metrosep A Supp 19 - 150/4.0	
Eluent composition	not defined	
Flow	0.700	mL/min
Maximum flow monitored	yes	
Pressure	11.99	MPa
Maximum pressure monitored	yes	
Temperature	-----	°C

Anions



Peak number	Retention time min	Area (µS/cm) x min	Height µS/cm	Concentration ppm	Component name
1	3.428	0.1974	1.457	1.376	Fluoride
2	6.820	33.4815	190.328	337.542	Chloride
3	11.027	0.3862	1.446	8.895	Bromide
4	16.953	8.9905	21.856	116.904	Sulfate

Reviewed By:Iwon
On:9/19/2024 9:54
AM
Inst Id :IC-2
LB :LB132464

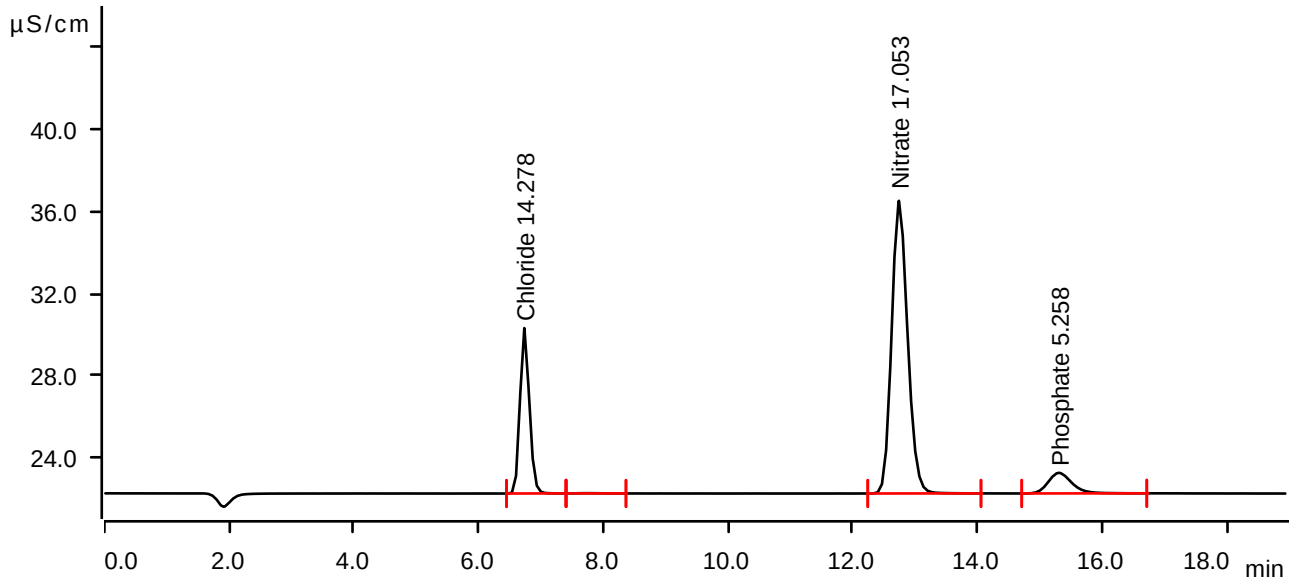
Sample data

Ident	P3848-11
Sample type	Sample
Determination start	2024-09-17 12:25:14 UTC-4
Method	IC1-091624
Operator	

Anions

Data source	Conductivity detector 1 (Eco IC 1)	
Channel	Conductivity	
Recording time	19.0	min
Integration	Automatically	
Column type	Metrosep A Supp 19 - 150/4.0	
Eluent composition	not defined	
Flow	0.700	mL/min
Maximum flow monitored	yes	
Pressure	12.05	MPa
Maximum pressure monitored	yes	
Temperature	-----	°C

Anions



Peak number	Retention time min	Area (µS/cm) x min	Height µS/cm	Concentration ppm	Component name
1	6.733	1.4117	8.072	14.278	Chloride
2	7.730	0.0051	0.012	invalid	
3	12.740	4.2413	14.285	17.053	Nitrate
4	15.303	0.4423	1.004	5.258	Phosphate

Reviewed By:Iwon
On:9/19/2024 9:54
AM
Inst Id :IC-2
LB :LB132464

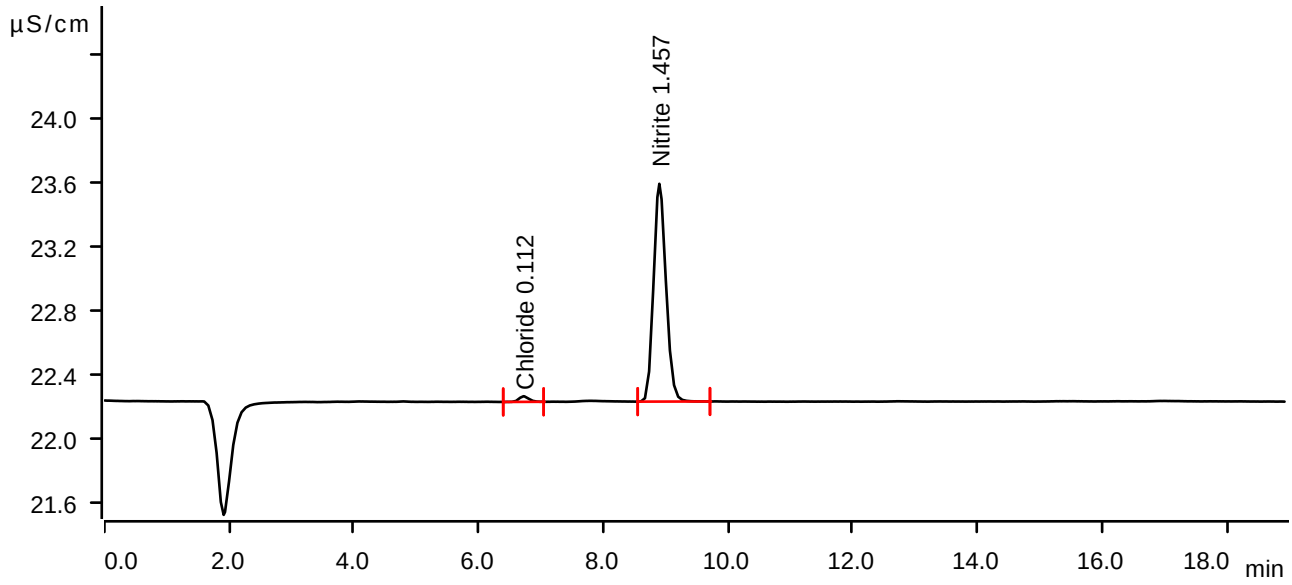
Sample data

Ident	P3848-15
Sample type	Sample
Determination start	2024-09-17 12:46:48 UTC-4
Method	IC1-091624
Operator	

Anions

Data source	Conductivity detector 1 (Eco IC 1)	
Channel	Conductivity	
Recording time	19.0	min
Integration	Automatically	
Column type	Metrosep A Supp 19 - 150/4.0	
Eluent composition	not defined	
Flow	0.700	mL/min
Maximum flow monitored	yes	
Pressure	12.05	MPa
Maximum pressure monitored	yes	
Temperature	-----	°C

Anions



Peak number	Retention time min	Area (µS/cm) x min	Height µS/cm	Concentration ppm	Component name
1	6.720	0.0064	0.035	0.112	Chloride
2	8.898	0.3135	1.361	1.457	Nitrite

Reviewed By:Iwon
On:9/19/2024 9:54
AM
Inst Id :IC-2
LB :LB132464

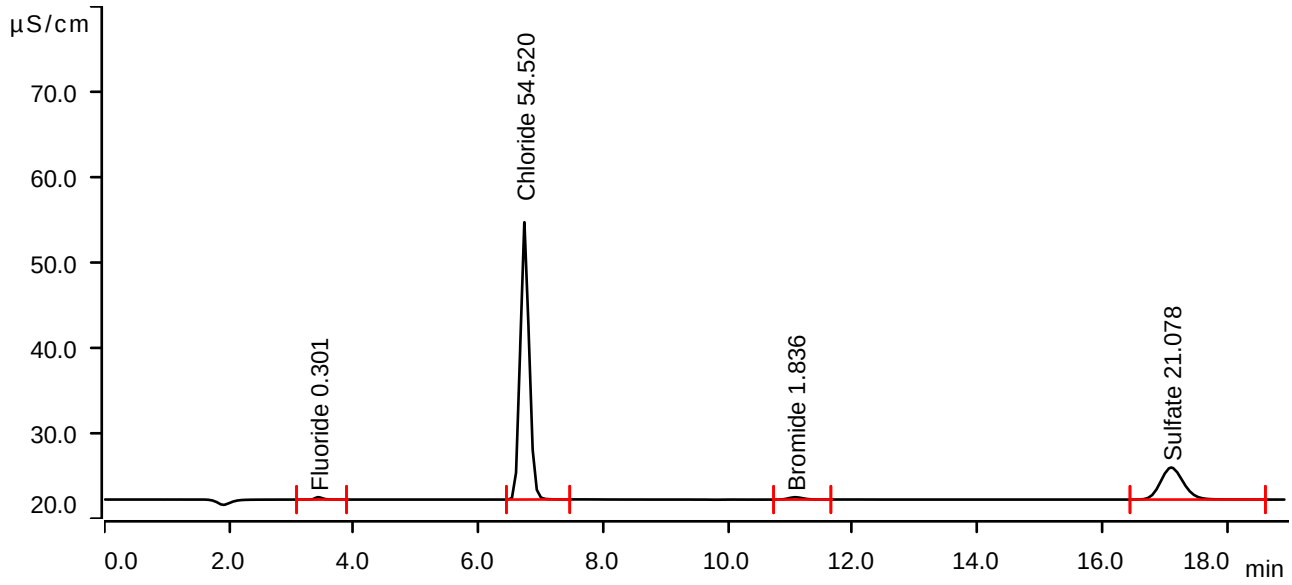
Sample data

Ident	P3848-05DLX5
Sample type	Sample
Determination start	2024-09-17 13:08:21 UTC-4
Method	IC1-091624
Operator	

Anions

Data source	Conductivity detector 1 (Eco IC 1)	
Channel	Conductivity	
Recording time	19.0	min
Integration	Automatically	
Column type	Metrosep A Supp 19 - 150/4.0	
Eluent composition	not defined	
Flow	0.700	mL/min
Maximum flow monitored	yes	
Pressure	11.88	MPa
Maximum pressure monitored	yes	
Temperature	-----	°C

Anions



Peak number	Retention time min	Area (µS/cm) x min	Height µS/cm	Concentration ppm	Component name
1	3.430	0.0391	0.285	0.301	Fluoride
2	6.735	5.4040	32.487	54.520	Chloride
3	11.077	0.0731	0.275	1.836	Bromide
4	17.105	1.5941	3.754	21.078	Sulfate

Reviewed By:Iwon
On:9/19/2024 9:54
AM
Inst Id :IC-2
LB :LB132464

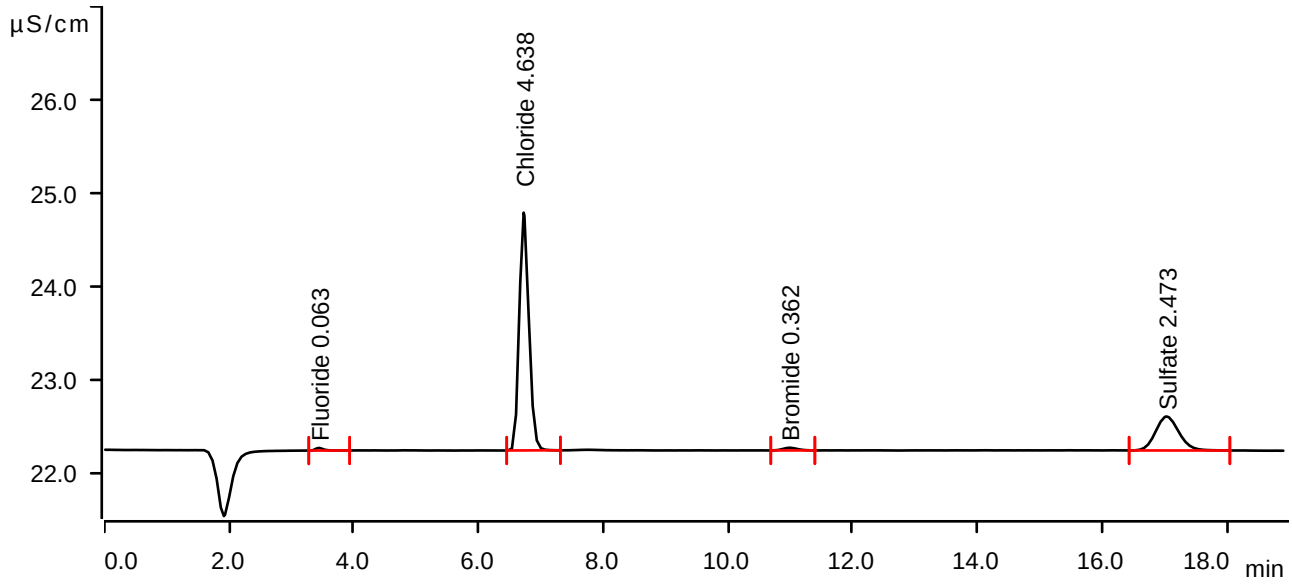
Sample data

Ident	P3848-05DL2X50
Sample type	Sample
Determination start	2024-09-17 13:29:54 UTC-4
Method	IC1-091624
Operator	

Anions

Data source	Conductivity detector 1 (Eco IC 1)	
Channel	Conductivity	
Recording time	19.0	min
Integration	Automatically	
Column type	Metrosep A Supp 19 - 150/4.0	
Eluent composition	not defined	
Flow	0.700	mL/min
Maximum flow monitored	yes	
Pressure	11.88	MPa
Maximum pressure monitored	yes	
Temperature	-----	°C

Anions



Peak number	Retention time min	Area (µS/cm) x min	Height µS/cm	Concentration ppm	Component name
1	3.440	0.0040	0.028	0.063	Fluoride
2	6.723	0.4554	2.553	4.638	Chloride
3	10.978	0.0078	0.029	0.362	Bromide
4	17.028	0.1580	0.365	2.473	Sulfate

Reviewed By:Iwon
On:9/19/2024 9:54 AM
Inst Id :IC-2
LB :LB132464

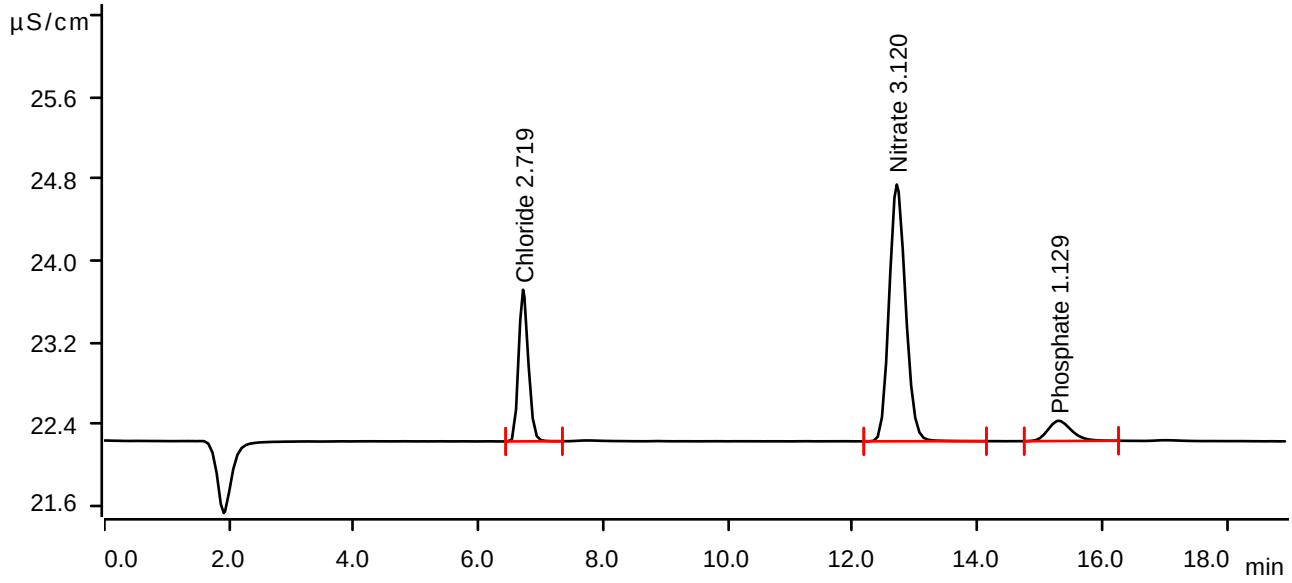
Sample data

Ident	P3848-11DLX5
Sample type	Sample
Determination start	2024-09-17 13:51:27 UTC-4
Method	IC1-091624
Operator	

Anions

Data source	Conductivity detector 1 (Eco IC 1)	
Channel	Conductivity	
Recording time	19.0	min
Integration	Automatically	
Column type	Metrosep A Supp 19 - 150/4.0	
Eluent composition	not defined	
Flow	0.700	mL/min
Maximum flow monitored	yes	
Pressure	11.88	MPa
Maximum pressure monitored	yes	
Temperature	-----	°C

Anions



Peak number	Retention time min	Area (µS/cm) x min	Height µS/cm	Concentration ppm	Component name
1	6.713	0.2650	1.480	2.719	Chloride
2	12.705	0.7645	2.507	3.120	Nitrate
3	15.297	0.0867	0.198	1.129	Phosphate

Reviewed By:Iwon
On:9/19/2024 9:54 AM
Inst Id :IC-2
LB :LB132464

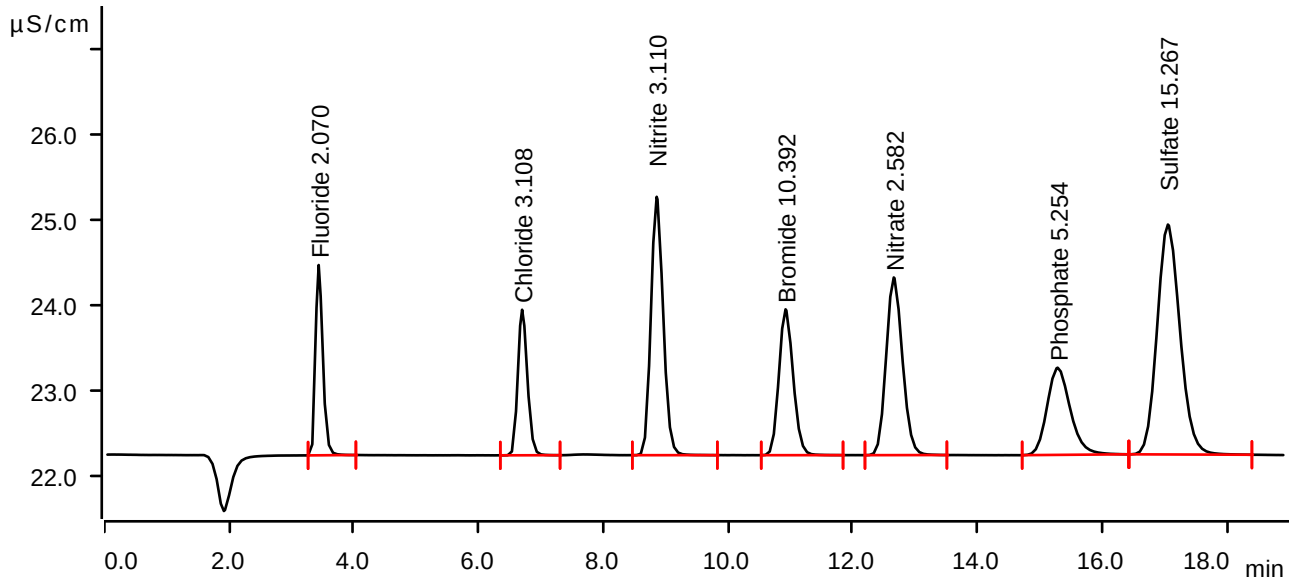
Sample data

Ident	CCV
Sample type	Check standard 1
Determination start	2024-09-17 14:56:07 UTC-4
Method	IC1-091624
Operator	

Anions

Data source	Conductivity detector 1 (Eco IC 1)	
Channel	Conductivity	
Recording time	19.0	min
Integration	Automatically	
Column type	Metrosep A Supp 19 - 150/4.0	
Eluent composition	not defined	
Flow	0.700	mL/min
Maximum flow monitored	yes	
Pressure	11.77	MPa
Maximum pressure monitored	yes	
Temperature	-----	°C

Anions



Peak number	Retention time min	Area (µS/cm) x min	Height µS/cm	Concentration ppm	Component name
1	3.437	0.2994	2.229	2.070	Fluoride
2	6.698	0.3036	1.705	3.108	Chloride
3	8.855	0.6888	3.026	3.110	Nitrite
4	10.922	0.4526	1.708	10.392	Bromide
5	12.657	0.6303	2.081	2.582	Nitrate
6	15.285	0.4419	1.021	5.254	Phosphate
7	17.052	1.1455	2.693	15.267	Sulfate

Reviewed By:Iwon
On:9/19/2024 9:54
AM
Inst Id :IC-2
LB :LB132464

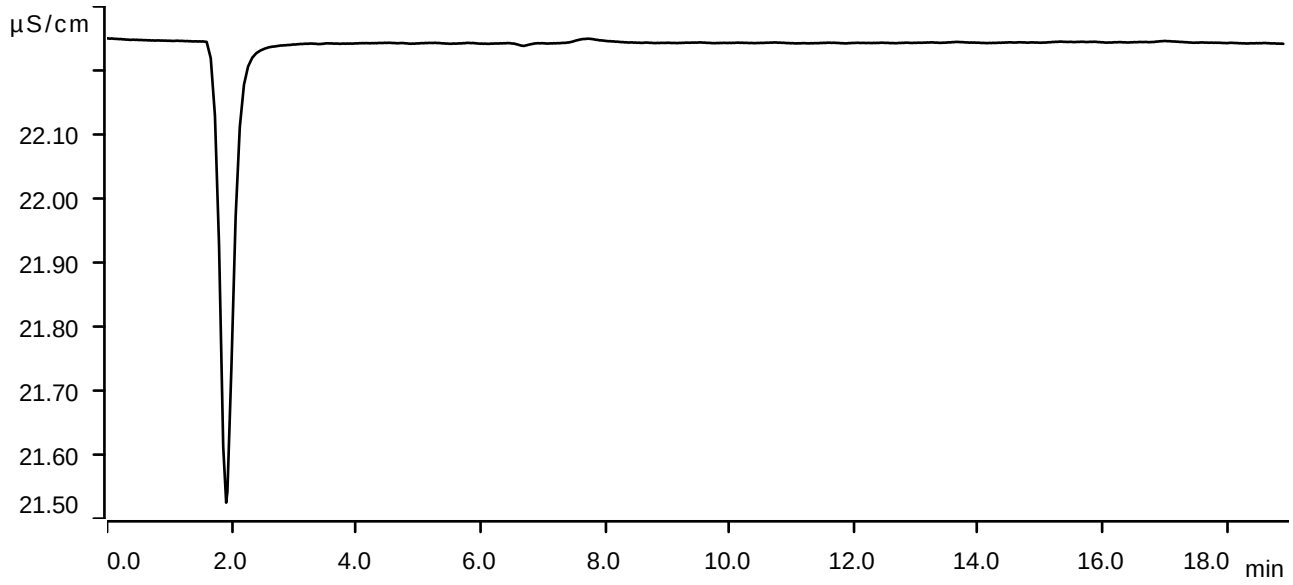
Sample data

Ident	CCB
Sample type	Sample
Determination start	2024-09-17 15:17:22 UTC-4
Method	IC1-091624
Operator	

Anions

Data source	Conductivity detector 1 (Eco IC 1)	
Channel	Conductivity	
Recording time	19.0	min
Integration	Automatically	
Column type	Metrosep A Supp 19 - 150/4.0	
Eluent composition	not defined	
Flow	0.700	mL/min
Maximum flow monitored	yes	
Pressure	11.77	MPa
Maximum pressure monitored	yes	
Temperature	-----	°C

Anions



Reviewed By:Iwon
On:9/19/2024 9:54
AM
Inst Id :IC-2
LB :LB132464

Sample data

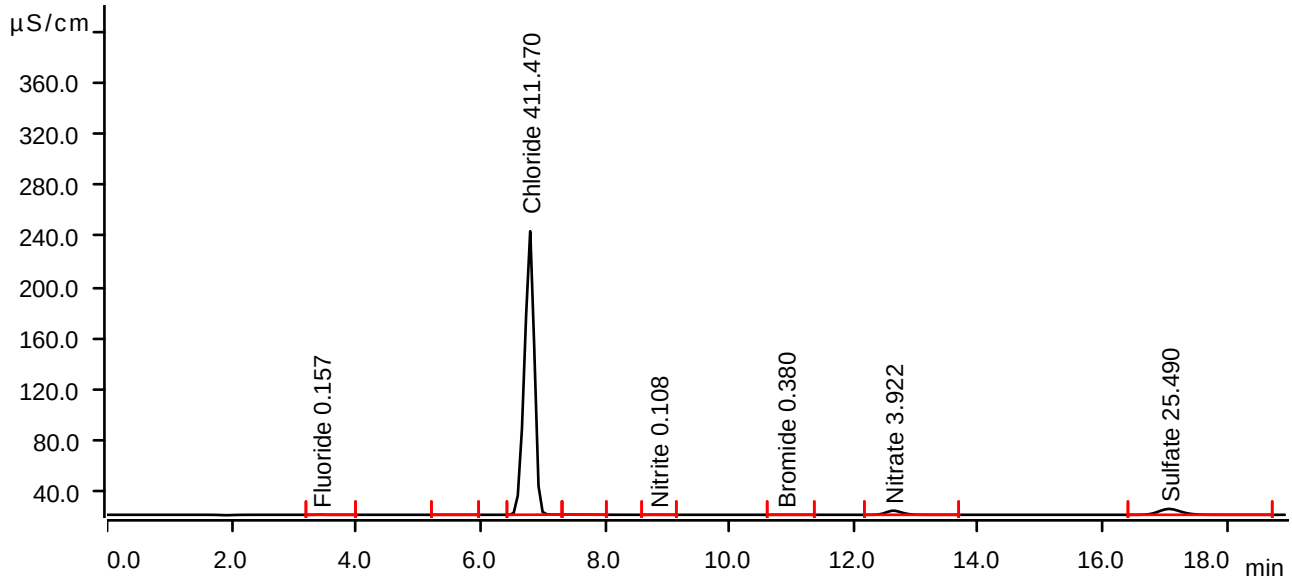
Ident	P4085-05	
Sample type	Sample	
Determination start	2024-09-17 15:38:52 UTC-4	
Method	IC1-091624	
Operator		

Anions

Data source	Conductivity detector 1 (Eco IC 1)	
Channel	Conductivity	
Recording time	19.0	min
Integration	Automatically	
Column type	Metrosep A Supp 19 - 150/4.0	
Eluent composition	not defined	
Flow	0.700	mL/min
Maximum flow monitored	yes	
Pressure	11.71	MPa
Maximum pressure monitored	yes	
Temperature	-----	°C

Reviewed By:Iwon
On:9/19/2024 9:54
AM
Inst Id :IC-2
LB :LB132464

Anions



Peak number	Retention time min	Area (µS/cm) x min	Height µS/cm	Concentration ppm	Component name
1	3.435	0.0179	0.121	0.157	Fluoride
2	5.535	0.0041	0.016	invalid	
3	6.802	40.8156	221.375	411.470	Chloride
4	7.500	0.0189	0.053	invalid	
5	8.857	0.0073	0.033	0.108	Nitrite
6	10.902	0.0086	0.032	0.380	Bromide
7	12.635	0.9647	3.220	3.922	Nitrate
8	17.065	1.9346	4.581	25.490	Sulfate

Reviewed By:Iwon
On:9/19/2024 9:54
AM
Inst Id :IC-2
LB :LB132464

Sample data

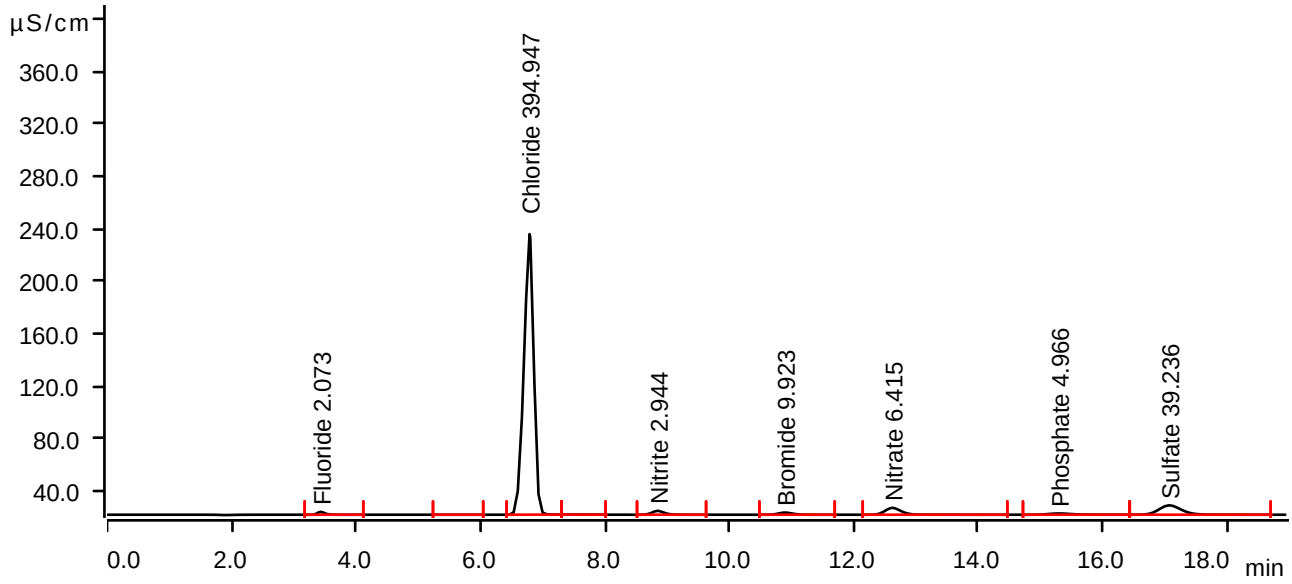
Ident	P4085-05MS	
Sample type	Sample	
Determination start	2024-09-17 16:00:23 UTC-4	
Method	IC1-091624	
Operator		

Anions

Data source	Conductivity detector 1 (Eco IC 1)	
Channel	Conductivity	
Recording time	19.0	min
Integration	Automatically	
Column type	Metrosep A Supp 19 - 150/4.0	
Eluent composition	not defined	
Flow	0.700	mL/min
Maximum flow monitored	yes	
Pressure	11.71	MPa
Maximum pressure monitored	yes	
Temperature	-----	°C

Reviewed By:Iwon
On:9/19/2024 9:54
AM
Inst Id :IC-2
LB :LB132464

Anions



Peak number	Retention time min	Area (µS/cm) x min	Height µS/cm	Concentration ppm	Component name
1	3.433	0.2999	2.204	2.073	Fluoride
2	5.528	0.0045	0.016	invalid	
3	6.790	39.1764	213.627	394.947	Chloride
4	7.495	0.0186	0.051	invalid	
5	8.848	0.6511	2.916	2.944	Nitrite
6	10.893	0.4317	1.645	9.923	Bromide
7	12.620	1.5869	5.235	6.415	Nitrate
8	15.297	0.4171	0.939	4.966	Phosphate
9	17.070	2.9956	7.163	39.236	Sulfate

Reviewed By:Iwon
On:9/19/2024 9:54 AM
Inst Id :IC-2
LB :LB132464

Sample data

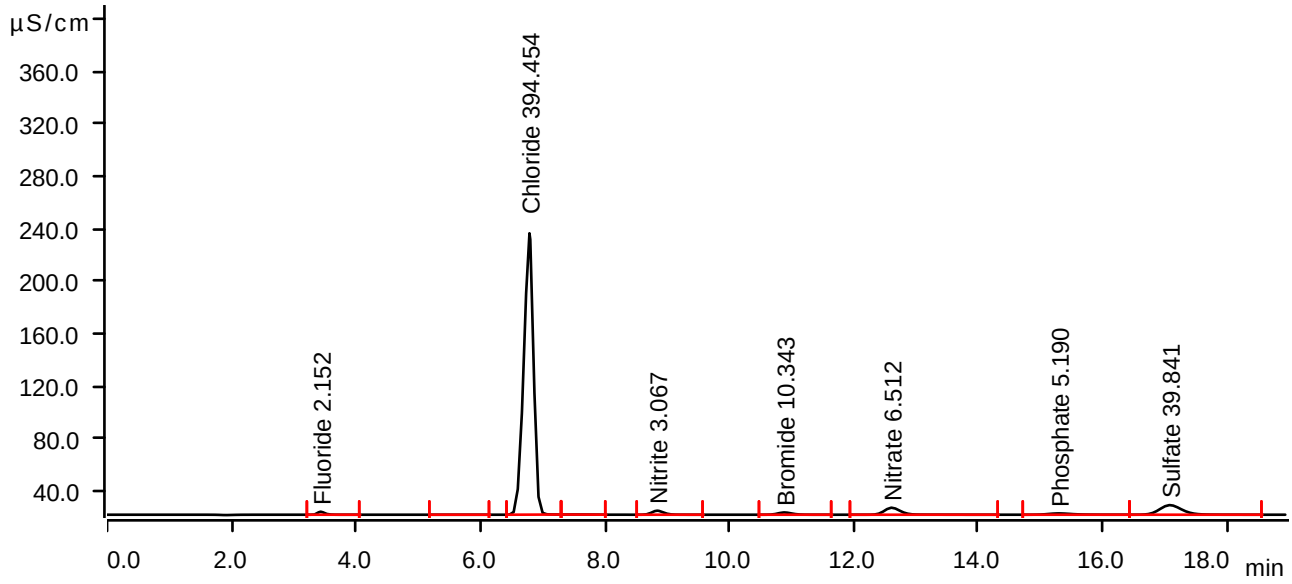
Ident	P4085-05MSD	
Sample type	Sample	
Determination start	2024-09-17 16:21:53 UTC-4	
Method	IC1-091624	
Operator		

Anions

Data source	Conductivity detector 1 (Eco IC 1)	
Channel	Conductivity	
Recording time	19.0	min
Integration	Automatically	
Column type	Metrosep A Supp 19 - 150/4.0	
Eluent composition	not defined	
Flow	0.700	mL/min
Maximum flow monitored	yes	
Pressure	11.66	MPa
Maximum pressure monitored	yes	
Temperature	-----	°C

Reviewed By:Iwon
On:9/19/2024 9:54
AM
Inst Id :IC-2
LB :LB132464

Anions



Peak number	Retention time min	Area (µS/cm) x min	Height µS/cm	Concentration ppm	Component name
1	3.433	0.3115	2.304	2.152	Fluoride
2	5.550	0.0044	0.015	invalid	
3	6.788	39.1275	214.246	394.454	Chloride
4	7.485	0.0188	0.052	invalid	
5	8.842	0.6789	3.054	3.067	Nitrite
6	10.885	0.4504	1.722	10.343	Bromide
7	12.608	1.6110	5.334	6.512	Nitrate
8	15.295	0.4364	0.986	5.190	Phosphate
9	17.080	3.0423	7.293	39.841	Sulfate

Reviewed By:Iwon
On:9/19/2024 9:54
AM
Inst Id :IC-2
LB :LB132464

Sample data

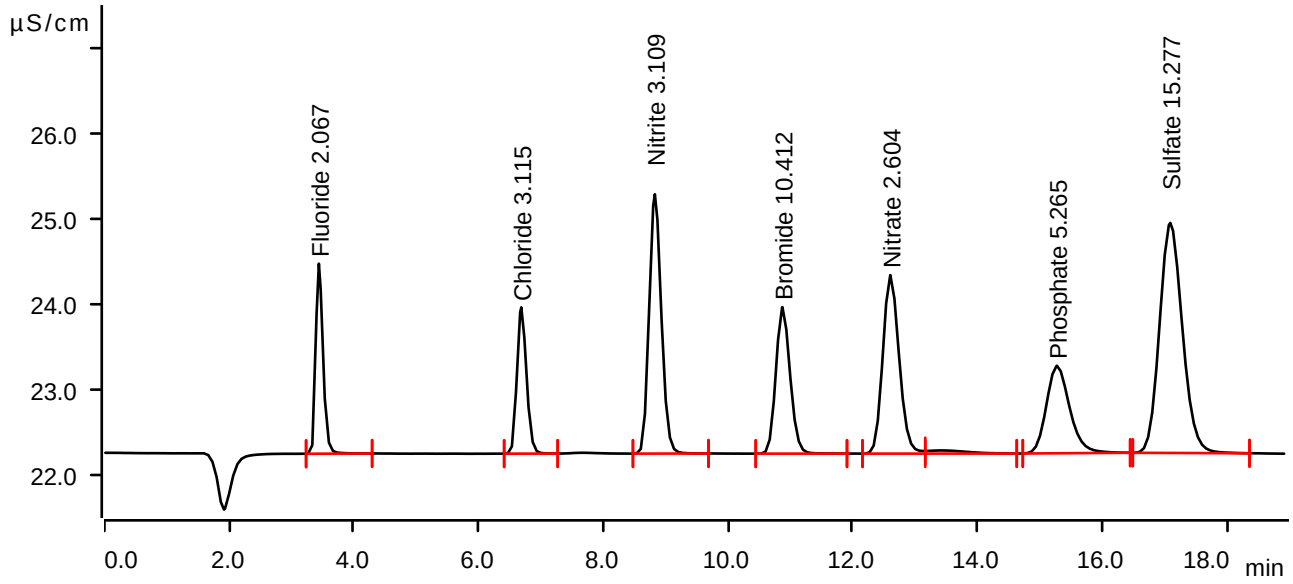
Ident	CCV	
Sample type	Check standard 1	
Determination start	2024-09-17 16:43:23 UTC-4	
Method	IC1-091624	
Operator		

Anions

Data source	Conductivity detector 1 (Eco IC 1)	
Channel	Conductivity	
Recording time	19.0	min
Integration	Automatically	
Column type	Metrosep A Supp 19 - 150/4.0	
Eluent composition	not defined	
Flow	0.700	mL/min
Maximum flow monitored	yes	
Pressure	11.77	MPa
Maximum pressure monitored	yes	
Temperature	-----	°C

Reviewed By:Iwon
On:9/19/2024 9:54
AM
Inst Id :IC-2
LB :LB132464

Anions



Peak number	Retention time min	Area (µS/cm) x min	Height µS/cm	Concentration ppm	Component name
1	3.440	0.2990	2.226	2.067	Fluoride
2	6.685	0.3043	1.713	3.115	Chloride
3	8.827	0.6885	3.038	3.109	Nitrite
4	10.872	0.4534	1.717	10.412	Bromide
5	12.602	0.6357	2.091	2.604	Nitrate
6	13.437	0.0261	0.037	invalid	
7	15.273	0.4428	1.025	5.265	Phosphate
8	17.090	1.1463	2.694	15.277	Sulfate

Reviewed By:Iwon
On:9/19/2024 9:54 AM
Inst Id :IC-2
LB :LB132464

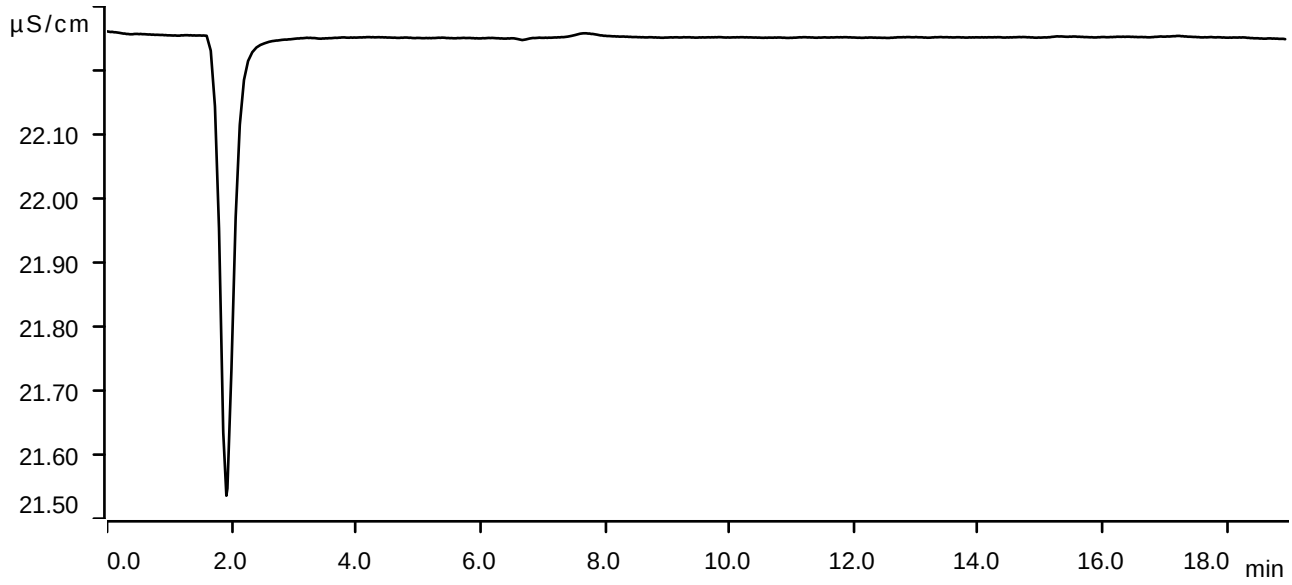
Sample data

Ident	CCB	
Sample type	Sample	
Determination start	2024-09-17 17:04:39 UTC-4	
Method	IC1-091624	
Operator		

Anions

Data source	Conductivity detector 1 (Eco IC 1)	
Channel	Conductivity	
Recording time	19.0	min
Integration	Automatically	
Column type	Metrosep A Supp 19 - 150/4.0	
Eluent composition	not defined	
Flow	0.700	mL/min
Maximum flow monitored	yes	
Pressure	11.54	MPa
Maximum pressure monitored	yes	
Temperature	-----	°C

Anions



LB13 2464

WORKLIST(Hardcopy Internal Chain)

WorkList Name : ANIONS-09172024 **WorkList ID :** 183561 **Department :** Wet-Chemistry **Date :** 09-17-2024 09:43:49

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P3848-05	PT-MIN1-WP	Water	Anions Group1	Cool 4 deg C	CHEM02	QA Of	09/03/2024	300.0
P3848-11	PT-NUT1-WP	Water	Anions Group2	Cool 4 deg C	CHEM02	QA Of	09/03/2024	300.0
P3848-15	PT-NUT3-WP	Water	Anions Group4	Cool 4 deg C	CHEM02	QA Of	09/03/2024	300.0

Date/Time 09. 17. 2024 , 09:55

Raw Sample Received by: NF (WC)

Raw Sample Relinquished by: SJ (QAO)

Date/Time NA

Raw Sample Received by: "

Raw Sample Relinquished by: "

Reviewed By:Iwona
On:9/19/2024 9:54:24 AM
Inst Id :IC-2
LB :LB132464

LB132464

WORKLIST(Hardcopy Internal Chain)

WorkList Name : ANIONS - 09172024 **WorkList ID :** 183618 **Department :** Wet-Chemistry **Date :** 09-17-2024 14:03:04

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P4085-05	PURGE-WATER	Water	Anions Group1	Cool 4 deg C	PSEG03	H53	09/17/2024	300.0

Date/Time 09.17.2024, 15:00
Raw Sample Received by: NF(WC)
Raw Sample Relinquished by: [signature]

Date/Time 09.17.2024, 16:00
Raw Sample Received by: [signature]
Raw Sample Relinquished by: NF(WC)

Reviewed By:lwona
On:9/19/2024 9:54:24 AM
Inst Id :IC-2
LB :LB132464

Reviewed By:Iwona
On:9/19/2024 9:53:22 AM
Inst Id :Konelab 20
LB :LB132468

Test results | Aquakem 7.2AQ1 | Page: 1

CHEMTECH CONSULTING GROUP INC
284 Sheffield Street, Mountainside, NJ 07092

Reviewed by : NF

9/17/2024 16:12 | Instrument ID : Konelab

Test: Nitrite

Sample Id	Result	Dil. 1 +	Response	Errors
ICV1	0.300	0.0	0.801	
ICB1	-0.000	0.0	0.006	
CCV1	0.305	0.0	0.814	
CCB1	0.000	0.0	0.007	
RL CHECK	0.012	0.0	0.038	
LB132468BLW	-0.000	0.0	0.006	
LB132468BSW	0.296	0.0	0.789	
P3848-14	1.382	0.0	3.663	Test limit high
P3848-14DLX5	0.285	0.0	0.760	
CCV2	0.297	0.0	0.792	
CCB2	-0.001	0.0	0.005	

N	11
Mean	0.261
SD	0.3998
CV%	152.94

Reviewed By:Iwona
On:9/19/2024 9:53:22 AM
Inst Id :Konelab 20
LB :LB132468

Aquakem v. 7.2AQ1
Results from time period:
Tue Sep 17 15:17:11 2024
Tue Sep 17 16:05:25 2024

Sample Id	Sam/Ctr/cA	Test short r	Test type	Result	Result unit	Result date and time	Stat
0.0000PPM	A	Nitrite	P	0.0006	mg/l	9/17/2024 15:17:11	
0.012PPM	A	Nitrite	P	0.0114	mg/l	9/17/2024 15:17:12	
0.024PPM	A	Nitrite	P	0.0235	mg/l	9/17/2024 15:17:13	
0.060PPM	A	Nitrite	P	0.0592	mg/l	9/17/2024 15:17:14	
0.12PPM	A	Nitrite	P	0.1222	mg/l	9/17/2024 15:17:15	
0.30PPM	A	Nitrite	P	0.2988	mg/l	9/17/2024 15:17:16	
0.60PPM	A	Nitrite	P	0.6002	mg/l	9/17/2024 15:17:17	
ICV1	S	Nitrite	P	0.3001	mg/l	9/17/2024 16:00:58	
ICB1	S	Nitrite	P	-0.0001	mg/l	9/17/2024 16:01:00	
CCV1	S	Nitrite	P	0.3053	mg/l	9/17/2024 16:01:02	
CCB1	S	Nitrite	P	0	mg/l	9/17/2024 16:01:04	
RL CHECK	S	Nitrite	P	0.0118	mg/l	9/17/2024 16:01:06	
LB132468BLW	S	Nitrite	P	-0.0002	mg/l	9/17/2024 16:01:08	
LB132468BSW	S	Nitrite	P	0.2956	mg/l	9/17/2024 16:04:22	
P3848-14	S	Nitrite	P	1.3821	mg/l	9/17/2024 16:04:24	
P3848-14DLX5	S	Nitrite	P	0.2848	mg/l	9/17/2024 16:04:25	
CCV2	S	Nitrite	P	0.2969	mg/l	9/17/2024 16:04:32	
CCB2	S	Nitrite	P	-0.0007	mg/l	9/17/2024 16:05:25	

Reviewed By:Iwona
On:9/19/2024 9:53:22 AM
Inst Id :Konelab 20
LB :LB132468

Calibration results Aquakem 7.2AQ1 Page: 1

CHEMTECH CONSULTING GROUP INC
284 Sheffield Street, Mountainside, NJ 07092

Reviewed by : NF Instrument ID : Konelab

9/17/2024 15:33

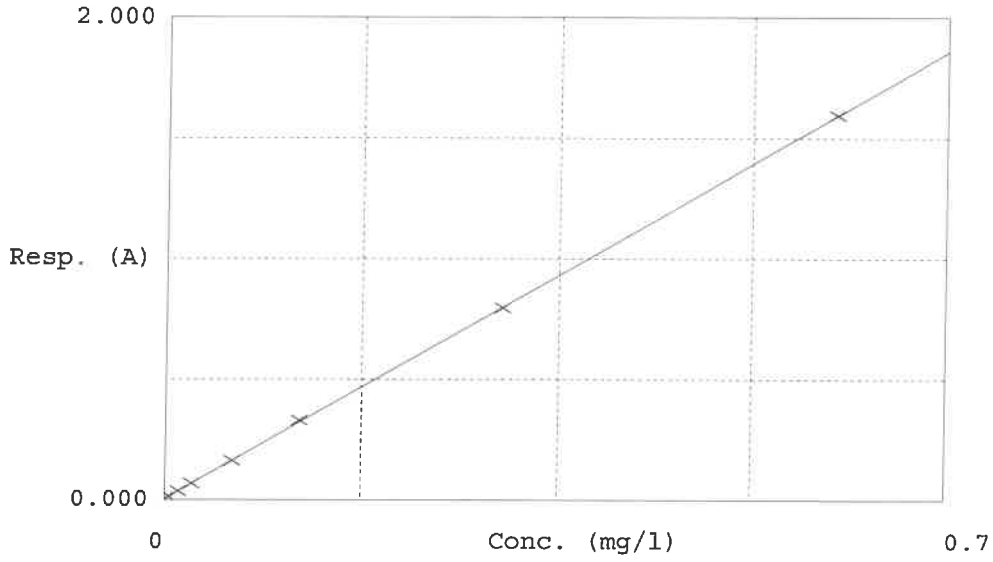
Test Nitrite

Accepted 9/17/2024 15:33

Factor 0.378
Bias 0.007

Coeff. of det. 0.999973

Errors



	Calibrator	Response	Calc. con.	Conc.	Errors
1	0.00PPM	0.008	0.0006	0.0000	
2	NITRITE0.6	0.037	0.0114	0.0120	-5.0
3	NITRITE0.6	0.069	0.0235	0.0240	-2.1
4	NITRITE0.6	0.163	0.0592	0.0600	-1.3
5	NITRITE0.6	0.330	0.1222	0.1200	1.8
6	NITRITE0.6	0.797	0.2988	0.3000	-0.4
7	NITRITE0.6	1.595	0.6002	0.6000	0.0

Re

NF
09.17.2024

Reviewed By:Iwona
On:9/18/2024 12:32:09 PM
Inst Id :SPECTROPHOTOME

Analytical Summary Report

Analysis Method: ~~7196A~~

Parameter: ~~Hexavalent Chromium~~

Run Number: ~~LB132470~~

ANALYST: rubina

SUPERVISOR REVIEW BY: Iwona

pH Meter ID: WC pH Meter-1

Reagent/Standard	Lot/Log #
Calibration Std. hexchrome 0.1 ppm	WP109752
Calibration Std. hexchrome 0.05 ppm	WP109751
calibration std. hexchrome 0.01 ppm	WP109749
calibration std. hexchrome 0 ppm	WP109748
hexavalent chromium color reagent	WP109756
5N sulfuric acid	WP107791
Calibration Std Hexachrome 0.025 ppm	WP109750
Hexavalent Chromium ICV-LCS Std	WP109755
Calibration and CCV std HexChrome 0.5PPM	WP109753
Calibration std HexChrome 1.0PPM	WP109754

Intercept: 0.0004 **Slope:** 0.7828 **Regression:** 0.999986

Seq	Lab ID	True Value (mg/l)	DF	Initial Vol (ml)	Final Vol (ml)	pH HN03	pH H2SO4	Absorb.at 540nm		Absorbance Difference	Result (mg/L)	%D	Anal Date	Anal Time
								Backgrnd	Color					
1	CAL1	0	1	100	100		1.79	0.000	0.000	0.000	-0.00		09/17/2024	16:40
2	CAL2	0.01	1	100	100		1.87	0.000	0.007	0.007	0.008	-20	09/17/2024	16:41
3	CAL3	0.025	1	100	100		1.88	0.000	0.019	0.019	0.023	-8	09/17/2024	16:42
4	CAL4	0.05	1	100	100		1.85	0.000	0.039	0.039	0.049	-2	09/17/2024	16:43
5	CAL5	0.1	1	100	100		1.88	0.000	0.081	0.081	0.102	2	09/17/2024	16:44
6	CAL6	0.5	1	100	100		1.86	0.000	0.394	0.394	0.502	0.4	09/17/2024	16:45
7	CAL7	1	1	100	100		1.90	0.000	0.782	0.782	0.998	-0.2	09/17/2024	16:46

Reviewed By:Iwona
On:9/18/2024 12:32:09 PM
Inst Id :SPECTROPHOTOME

CHEMTECH

Analytical Summary Report

Analysis Method: 7196A
ANALYST: rubina
Parameter: Hexavalent Chromium
SUPERVISOR REVIEW BY: Iwona
Run Number: LB132470
pH Meter ID: WC pH Meter-1

Seq	Lab ID	True Value	DF	Initial Vol (ml/gm)	Final Vol (ml)	pH HN03	pH H2SO4	Absorb.at540nm		Absorbance Difference	Intermediate Result (mg/L)	Anal Date	Anal Time
								Backgrnd	Color				
1	ICV	0.5	1	100	100		1.90	0.000	0.390	0.390	0.498	09/17/2024	16:47
2	ICB		1	100	100		1.80	0.000	0.000	0.000	-0.001	09/17/2024	16:48
3	CCV1	0.5	1	100	100		1.94	0.000	0.393	0.393	0.502	09/17/2024	16:49
4	CCB1		1	100	100		1.76	0.000	0.001	0.001	0.001	09/17/2024	16:50
5	RL Check	0.01	1	100	100		1.90	0.000	0.008	0.008	0.010	09/17/2024	16:51
6	LB132470BL		1	100	100		1.79	0.000	0.001	0.001	0.001	09/17/2024	16:52
7	LB132470BS	0.5	1	100	100		1.92	0.000	0.393	0.393	0.502	09/17/2024	16:53
8	P3848-01		1	100	100		2.02	0.000	0.444	0.444	0.567	09/17/2024	16:54
9	P4085-05		1	100	100		2.06	0.001	0.001	0.000	-0.001	09/17/2024	16:55
10	P4085-05DU		1	100	100		2.10	0.001	0.001	0.000	-0.001	09/17/2024	16:56
11	P4085-05MS	1	2	100	100		2.06	0.000	0.390	0.390	0.498	09/17/2024	16:57
12	P4085-05MS	1	2	100	100		2.10	0.000	0.392	0.392	0.500	09/17/2024	16:58
13	CCV2	0.5	1	100	100		1.94	0.000	0.391	0.391	0.499	09/17/2024	16:59
14	CCB2		1	100	100		1.74	0.000	0.001	0.001	0.001	09/17/2024	17:00

WORKLIST(Hardcopy Internal Chain)

L6132470

WorkList Name : hex w-9-17 **WorkList ID :** 183572 **Department :** Wet-Chemistry **Date :** 09-17-2024 13:12:47

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P3848-01	PT-CR6-WP	Water	Hexavalent Chromium	Cool 4 deg C	CHEM02	QA Of	09/03/2024	7196A
P4085-05	PURGE-WATER	Water	Hexavalent Chromium	Ammonium sulfate buffer	PSEG03	H53	09/17/2024	7196A

Date/Time 09/17/2024 13.30
Raw Sample Received by: RM (WC)
Raw Sample Relinquished by:

Date/Time 09/17/2024 14.15
Raw Sample Received by:
Raw Sample Relinquished by: RM (WC)

Reviewed By:lwona
On:9/18/2024 12:32:09 PM
Inst Id :SPECTROPHOTOME

CHEMTECH

Analytical Summary Report

Analysis Method: SM4500-CL C
ANALYST: Niha
Parameter: Chloride
SUPERVISOR REVIEW BY: Iwona
Run Number: LB132485
Constant: 35450
Normality1: 0.1410

Reagent/Standard	Lot/Log #
HNO3 0.1N for Chloride	WP109766
Chloride LCS Std - 500ppm	WP109767
Mixed indicator reagent for Chloride more than 100ppm	WP109326
Mercuric Nitrate, 0.141 N, 500ml	W3095

Seq	Lab ID	True Value (mg/L)	Dilution	Sample Volume (mL)	Titrant Initial (ml)	Titrant Final (ml)	Titrant Diff. (ml)	Result (mg/L)	Anal Date	Anal Time
1	LB132485BL		1	50	0.00	0.02	0.02	0.00	09/18/2024	13:15
2	LB132485BS	500	1	20	0.00	1.98	1.98	489.85	09/18/2024	13:18
3	P3848-05		1	50	0.00	2.26	2.26	223.93	09/18/2024	13:21

Titrant Diff = TitrantFinal - TitrantInitial

Result = (Titrant Diff - Row Blank Value * Normality)) * Constant / Sa

LB132485

WORKLIST(Hardcopy Internal Chain)

WorkList Name : CHLORIDE PT-0918202 **WorkList ID :** 183602 **Department :** Wet-Chemistry **Date :** 09-18-2024 11:23:04

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P3848-05	PT-MIN1-WP	Water	Chloride	Cool 4 deg C	CHEM02	QA Of	09/03/2024	SM4500-CL C

Date/Time 09.18.2024, 11:30

Raw Sample Received by: NF (WC)

Raw Sample Relinquished by: SJ (QAO)

Date/Time NA

Raw Sample Received by: "

Raw Sample Relinquished by: "

Reviewed By:Iwona
On:9/18/2024 1:51:18 PM
Inst Id :Titrametric
LB :LB132485

Reviewed By:Iwona
On:9/19/2024 11:58:07 AM
Inst Id :Konelab 20
LB :LB132486

Lb132486

Test results | Aquakem 7.2AQ1 | Page: 1

CHEMTECH CONSULTING GROUP INC
284 Sheffield Street, Mountainside, NJ 07092

9/18/2024 12:26 | Reviewed by : RM | Instrument ID : Konelab

Test: Ammonia-N

Sample Id	Result	Dil. 1 +	Response	Errors
ICV1	0.973	0.0	0.138	
ICB1	0.019	0.0	0.018	
CCV1	0.935	0.0	0.133	
CCB1	0.020	0.0	0.018	
RL CHECK	0.095	0.0	0.028	
PB163477BL	0.022	0.0	0.018	
PB163477BS	0.953	0.0	0.136	
P3848-11	5.363	0.0	0.691	Test limit high
P4085-05	0.104	0.0	0.029	
P4085-05DUP	0.100	0.0	0.028	
P4085-05MS	1.021	0.0	0.144	
P4085-05MSD	0.969	0.0	0.137	
CCV2	0.971	0.0	0.138	
CCB2	0.028	0.0	0.019	
P3848-11DLX5	1.066	0.0	0.150	
CCV3	0.908	0.0	0.130	
CCB3	0.020	0.0	0.018	

95% (50-150) 09/18/2024 RM

N	17
Mean	0.798
SD	1.2644
CV%	158.42

Reviewed By:Iwona
On:9/19/2024 11:58:07 AM
Inst Id :Konelab 20
LB :LB132486

Aquakem v. 7.2AQ1
Results from time period:
Wed Sep 18 10:17:22 2024
Wed Sep 18 12:07:29 2024

Sample Id	Sam/Ctr/cA	Test short r	Test type	Result	Result unit	Result date and time	Stat
0.0PPM	A	Ammonia-N	P	0.0258	mg/l	9/18/2024 10:17:22	
0.1PPM	A	Ammonia-N	P	0.1137	mg/l	9/18/2024 10:17:23	
0.2PPM	A	Ammonia-N	P	0.2107	mg/l	9/18/2024 10:17:24	
0.4PPM	A	Ammonia-N	P	0.3844	mg/l	9/18/2024 10:17:25	
1.0PPM	A	Ammonia-N	P	0.9538	mg/l	9/18/2024 10:17:26	
1.3PPM	A	Ammonia-N	P	1.2947	mg/l	9/18/2024 10:17:27	
2.0PPM	A	Ammonia-N	P	2.0502	mg/l	9/18/2024 10:17:28	
ICV1	S	Ammonia-N	P	0.9726	mg/l	9/18/2024 11:09:00	
ICB1	S	Ammonia-N	P	0.0194	mg/l	9/18/2024 11:09:02	
CCV1	S	Ammonia-N	P	0.9354	mg/l	9/18/2024 11:09:03	
CCB1	S	Ammonia-N	P	0.02	mg/l	9/18/2024 11:09:06	
RL CHECK	S	Ammonia-N	P	0.0953	mg/l	9/18/2024 11:09:08	
PB163477BL	S	Ammonia-N	P	0.0218	mg/l	9/18/2024 11:09:10	
PB163477BS	S	Ammonia-N	P	0.9532	mg/l	9/18/2024 11:19:43	
P3848-11	S	Ammonia-N	P	5.3629	mg/l	9/18/2024 11:19:46	
P4085-05	S	Ammonia-N	P	0.1045	mg/l	9/18/2024 11:30:27	
P4085-05DUP	S	Ammonia-N	P	0.0995	mg/l	9/18/2024 11:30:28	
P4085-05MS	S	Ammonia-N	P	1.0212	mg/l	9/18/2024 11:30:30	
P4085-05MSD	S	Ammonia-N	P	0.9687	mg/l	9/18/2024 11:30:31	
CCV2	S	Ammonia-N	P	0.9715	mg/l	9/18/2024 11:39:29	
CCB2	S	Ammonia-N	P	0.0282	mg/l	9/18/2024 11:39:31	
P3848-11DLX5	S	Ammonia-N	P	1.0663	mg/l	9/18/2024 12:07:25	
CCV3	S	Ammonia-N	P	0.9077	mg/l	9/18/2024 12:07:28	
CCB3	S	Ammonia-N	P	0.0203	mg/l	9/18/2024 12:07:29	

Reviewed By:Iwona
On:9/19/2024 11:58:07 AM
Inst Id :Konelab 20
LB :LB132486

Calibration results Aquakem 7.2AQ1 Page:

CHEMTECH CONSULTING GROUP INC
284 Sheffield Street, Mountainside, NJ 07092

Reviewed by : RM Instrument ID : Konelab

9/18/2024 10:29

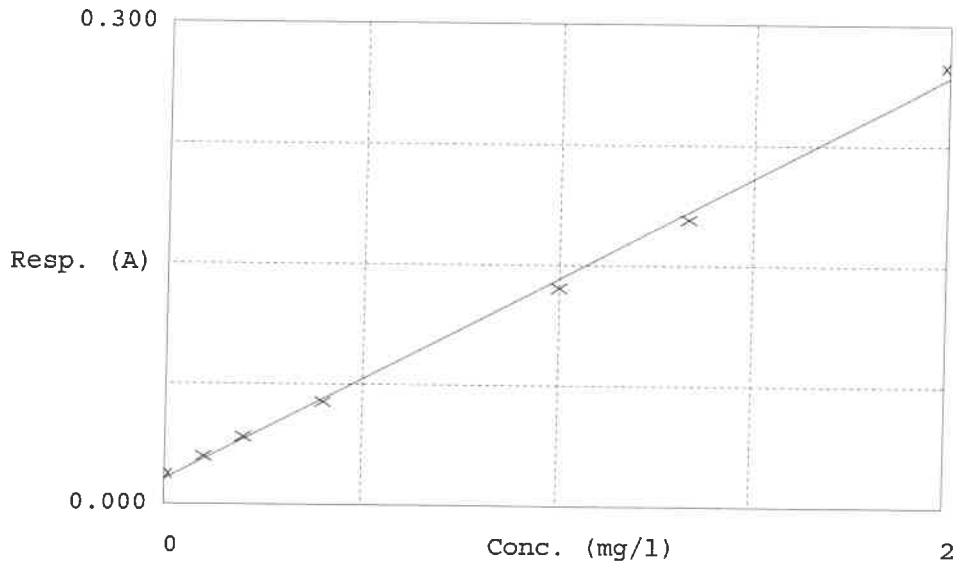
Test Ammonia-N

Accepted 9/18/2024 10:29

Factor 7.942
Bias 0.016

Coeff. of det. 0.997821

Errors



	Calibrator	Response	Calc. con.	Conc.	Errors
1	0.00PPM	0.019	0.0258	0.0000	-
2	NH3-2PPM	0.030	0.1137	0.1000	13.7
3	NH3-2PPM	0.042	0.2107	0.2000	5.3
4	NH3-2PPM	0.064	0.3844	0.4000	-3.9
5	NH3-2PPM	0.136	0.9538	1.0000	-4.6
6	NH3-2PPM	0.179	1.2947	1.3333	-2.9
7	NH3-2PPM	0.274	2.0502	2.0000	2.5

09/18/2024
RM

Reviewed By:Iwona
On:9/20/2024 10:13:39 AM
Inst Id :Titroline Alpha Titrator

TitriSoft Report

Ident	Amount	DateTime	Alkalinity	Final pH (sample)	Initial pH (sample)	slope	offset
LB132487BLW	100	~~19/09/2024~~ 10:36	0.00	3.87	3.91	102.5	6.86
LB132487BSW	100	19/09/2024 10:41	43.52	4.38	8.68	102.5	6.86
P3848-05	50	~~19/09/2024~~ 10:48	73.28	4.26	7.50	102.5	6.86

09/19/2024

09/19/24
12

Date: 9/19/24 11:14:27 AM

Page: 1

LB132487

WORKLIST(Hardcopy Internal Chain)

WorkList Name : ALKALINITY PT-091720 **WorkList ID :** 183562 **Department :** Wet-Chemistry **Date :** 09-17-2024 09:43:58

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P3848-05	PT-MIN1-WP	Water	Alkalinity	Cool 4 deg C	CHEM02	QA Of	09/03/2024	SM2320 B

Date/Time 09.19.2024, 10:00
Raw Sample Received by: NF(WC)
Raw Sample Relinquished by: SJ (QAO)

Date/Time NA
Raw Sample Received by: u
Raw Sample Relinquished by:

Reviewed By:Iwona
On:9/20/2024 10:13:39 AM
Inst Id :Titroline Alpha Titrator

Clear table

Instrument ID: IC-2 Analyst : IZ Method: 300.0 / 9056A

ident	concentration F-	concentration CL-	concentration NO2	concentration BR-	concentration NO3	concentration HPO4	concentration SO4	file name	date time	Initial wt/ Final Vol	Analyst
STD1	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	IC1-091624	2024-09-16 11:39:2	10	NF/IZ
STD2	0.424	0.637	0.645	2.133	0.536	1.071	3.306	IC1-091624	2024-09-16 12:00:4	10	NF/IZ
STD3	0.802	1.202	1.205	4.008	1.002	2.024	6.041	IC1-091624	2024-09-16 12:22:0	10	NF/IZ
STD4	1.007	1.523	1.517	5.064	1.267	2.521	7.591	IC1-091624	2024-09-16 12:43:3	10	NF/IZ
STD5	1.964	2.936	2.928	9.781	2.445	4.86	14.552	IC1-091624	2024-09-16 13:05:0	10	NF/IZ
STD6	3.962	5.921	5.921	19.755	4.924	9.91	29.354	IC1-091624	2024-09-16 13:26:2	10	NF/IZ
STD7	5.041	7.581	7.584	25.259	6.326	12.614	37.655	IC1-091624	2024-09-16 13:47:5	10	NF/IZ

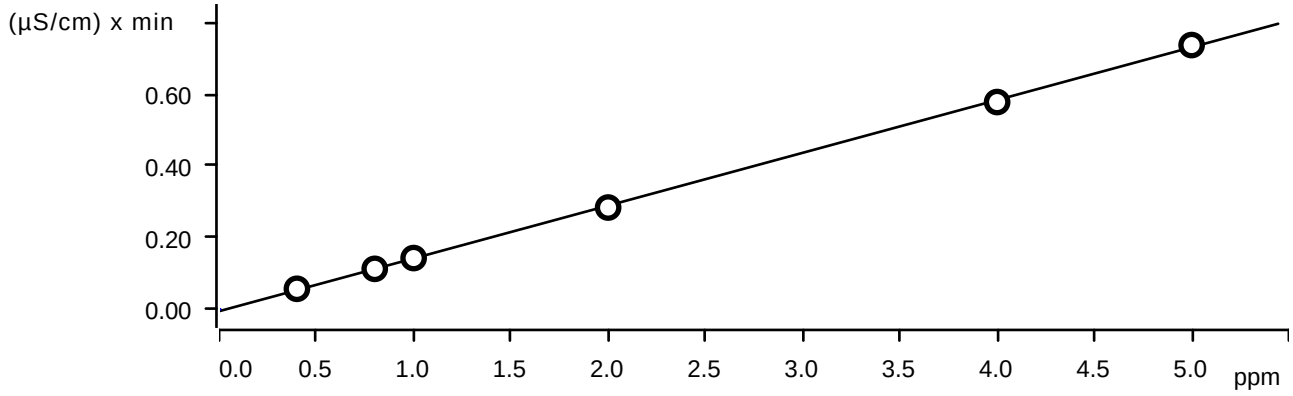
ident	True Value F-	True Value CL-	True Value NO2	True Value BR-	True Value NO3	True Value HPO4	True Value SO4
STD1	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
STD2	0.4000	0.6000	0.6000	2.0000	0.5000	1.0000	3.0000
STD3	0.8000	1.2000	1.2000	4.0000	1.0000	2.0000	6.0000
STD4	1.0000	1.5000	1.5000	5.0000	1.2500	2.5000	7.5000
STD5	2.0000	3.0000	3.0000	10.0000	2.5000	5.0000	15.0000
STD6	4.0000	6.0000	6.0000	20.0000	5.0000	10.0000	30.0000
STD7	5.0000	7.5000	7.5000	25.0000	6.2500	12.5000	37.0000

ident	Relative Error F-	Relative Error CL-	Relative Error NO2	Relative Error BR-	Relative Error NO3	Relative Error HPO4	Relative Error SO4
STD1							
STD2	6.0000	6.1667	7.5000	6.6500	7.2000	7.1000	10.2000
STD3	0.2500	0.1667	0.4167	0.2000	0.2000	1.2000	0.6833
STD4	0.7000	1.5333	1.1333	1.2800	1.3600	0.8400	1.2133
STD5	-1.8000	-2.1333	-2.4000	-2.1900	-2.2000	-2.8000	-2.9867
STD6	-0.9500	-1.3167	-1.3167	-1.2250	-1.5200	-0.9000	-2.1533
STD7	0.8200	1.0800	1.1200	1.0360	1.2160	0.9120	1.7703

Reviewed By:Iwona
On:9/19/2024 9:53:48 AM
Inst Id :IC-2
LB :LB132492

Reviewed By:Iwon
On:9/19/2024 9:53
AM
Inst Id :IC-2
LB :LB132492

Fluoride (Anions)



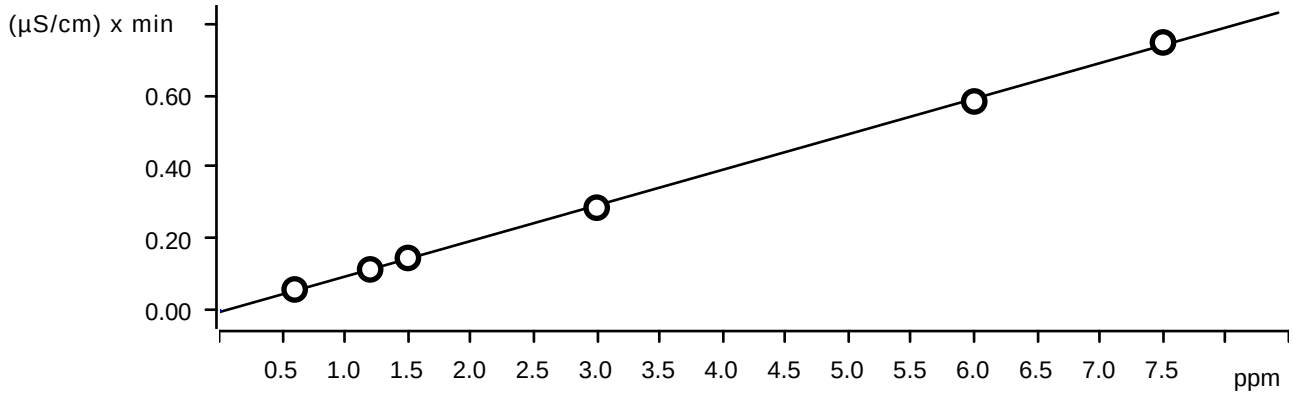
Function: . . . . . *A = - 5.20226E-3 + 0.0147183× Q*

Relative standard deviation . . . . . *1.655264 %*

Correlation coefficient *0.999855*

Sample type	Index	Conc.	Volume	Dilution	Sample amount	Area	Ident	Date	Used
Standard 1	1	0.000	10.0	1.0	1.0	n. d.	STD1	2024-09-16 11:39:22 UTC-4	used
Standard 2	1	0.400	10.0	1.0	1.0	0.057	STD2	2024-09-16 12:00:45 UTC-4	used
Standard 3	1	0.800	10.0	1.0	1.0	0.113	STD3	2024-09-16 12:22:09 UTC-4	used
Standard 4	1	1.000	10.0	1.0	1.0	0.143	STD4	2024-09-16 12:43:34 UTC-4	used
Standard 5	1	2.000	10.0	1.0	1.0	0.284	STD5	2024-09-16 13:05:00 UTC-4	used
Standard 6	1	4.000	10.0	1.0	1.0	0.578	STD6	2024-09-16 13:26:26 UTC-4	used
Standard 7	1	5.000	10.0	1.0	1.0	0.737	STD7	2024-09-16 13:47:53 UTC-4	used

Chloride (Anions)



Function: . . . . . *A = - 4.73518E-3 + 9.92061E-3× Q*

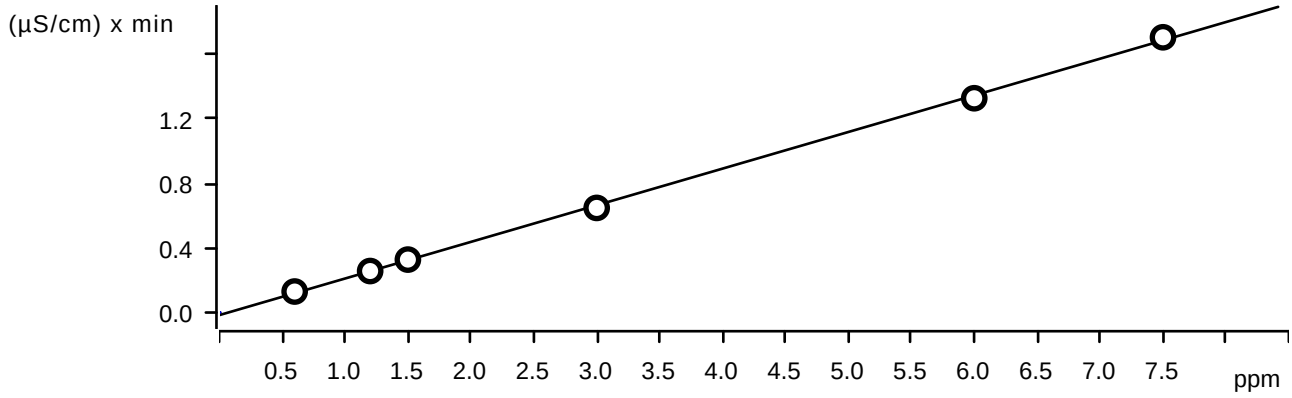
Reviewed By:Iwon
On:9/19/2024 9:53 AM
Inst Id :IC-2
LB :LB132492

Relative standard deviation . . . . . *2.104599 %*

Correlation coefficient *0.999766*

Sample type	Index	Conc.	Volume	Dilution	Sample amount	Area	Ident	Date	Used
Standard 1	1	0.000	10.0	1.0	1.0	n. d.	STD1	2024-09-16 11:39:22 UTC-4	used
Standard 2	1	0.600	10.0	1.0	1.0	0.058	STD2	2024-09-16 12:00:45 UTC-4	used
Standard 3	1	1.200	10.0	1.0	1.0	0.114	STD3	2024-09-16 12:22:09 UTC-4	used
Standard 4	1	1.500	10.0	1.0	1.0	0.146	STD4	2024-09-16 12:43:34 UTC-4	used
Standard 5	1	3.000	10.0	1.0	1.0	0.287	STD5	2024-09-16 13:05:00 UTC-4	used
Standard 6	1	6.000	10.0	1.0	1.0	0.583	STD6	2024-09-16 13:26:26 UTC-4	used
Standard 7	1	7.500	10.0	1.0	1.0	0.747	STD7	2024-09-16 13:47:53 UTC-4	used

Nitrite (Anions)



Function: . . . . . *A = - 0.0172576 + 0.0227000× Q*

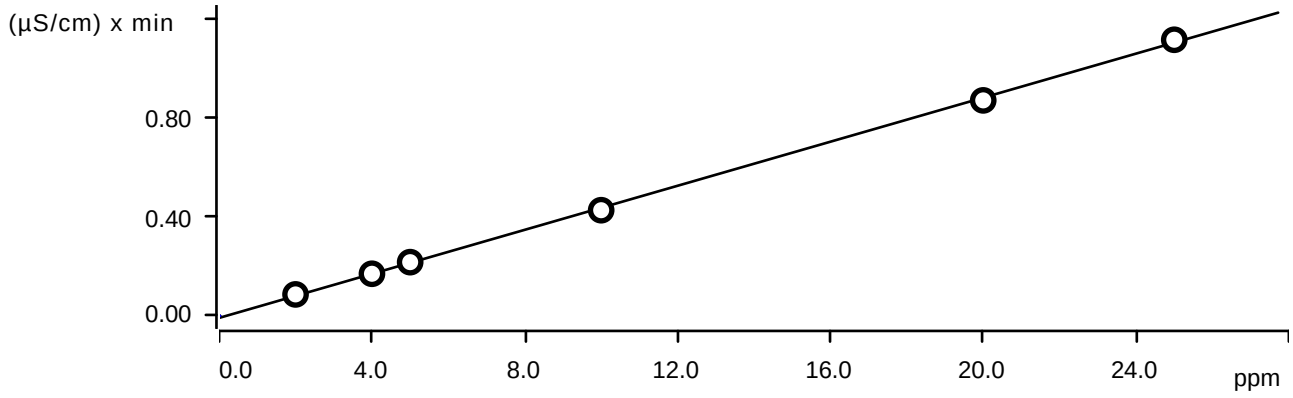
Relative standard deviation . . . . . *2.245267 %*

Correlation coefficient *0.999738*

Sample type	Index	Conc.	Volume	Dilution	Sample amount	Area	Ident	Date	Used
Standard 1	1	0.000	10.0	1.0	1.0	n. d.	STD1	2024-09-16 11:39:22 UTC-4	used
Standard 2	1	0.600	10.0	1.0	1.0	0.129	STD2	2024-09-16 12:00:45 UTC-4	used
Standard 3	1	1.200	10.0	1.0	1.0	0.256	STD3	2024-09-16 12:22:09 UTC-4	used
Standard 4	1	1.500	10.0	1.0	1.0	0.327	STD4	2024-09-16 12:43:34 UTC-4	used
Standard 5	1	3.000	10.0	1.0	1.0	0.647	STD5	2024-09-16 13:05:00 UTC-4	used
Standard 6	1	6.000	10.0	1.0	1.0	1.327	STD6	2024-09-16 13:26:26 UTC-4	used
Standard 7	1	7.500	10.0	1.0	1.0	1.704	STD7	2024-09-16 13:47:53 UTC-4	used

Reviewed By:Iwon
On:9/19/2024 9:53
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LB :LB132492

Bromide (Anions)



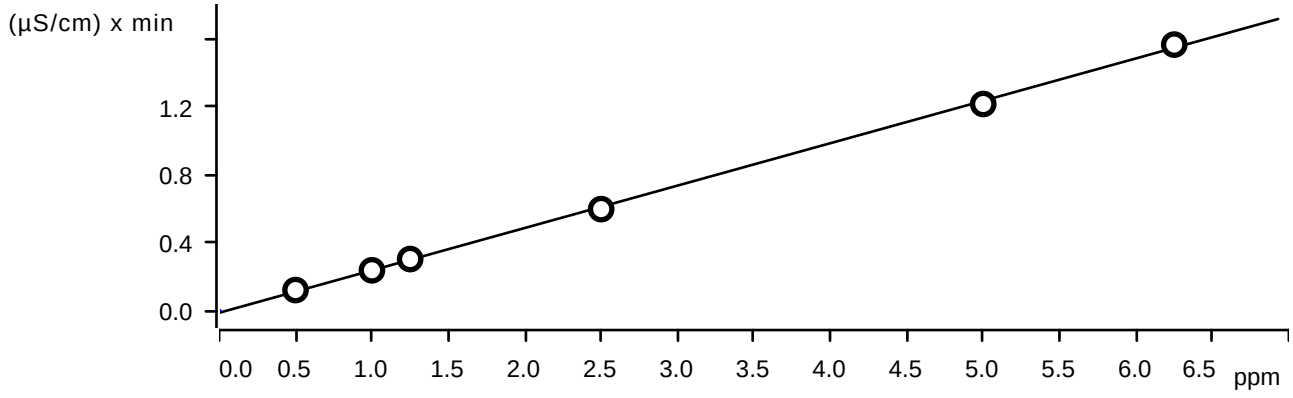
Function: . . . . . *A = - 8.29886E-3 + 4.43473E-3× Q*

Relative standard deviation . . . . . *2.051807 %*

Correlation coefficient *0.999778*

Sample type	Index	Conc.	Volume	Dilution	Sample amount	Area	Ident	Date	Used
Standard 1	1	0.000	10.0	1.0	1.0	n. d.	STD1	2024-09-16 11:39:22 UTC-4	used
Standard 2	1	2.000	10.0	1.0	1.0	0.086	STD2	2024-09-16 12:00:45 UTC-4	used
Standard 3	1	4.000	10.0	1.0	1.0	0.169	STD3	2024-09-16 12:22:09 UTC-4	used
Standard 4	1	5.000	10.0	1.0	1.0	0.216	STD4	2024-09-16 12:43:34 UTC-4	used
Standard 5	1	10.000	10.0	1.0	1.0	0.425	STD5	2024-09-16 13:05:00 UTC-4	used
Standard 6	1	20.000	10.0	1.0	1.0	0.868	STD6	2024-09-16 13:26:26 UTC-4	used
Standard 7	1	25.000	10.0	1.0	1.0	1.112	STD7	2024-09-16 13:47:53 UTC-4	used

Nitrate (Anions)



Function: . . . . . *A = - 0.0140308 + 0.0249539× Q*

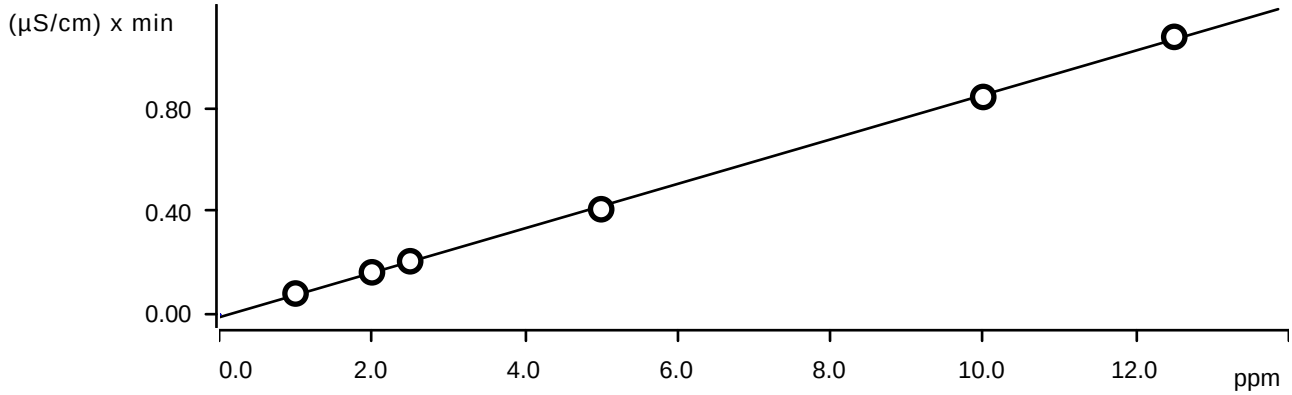
Relative standard deviation . . . . . *2.352995 %*

Reviewed By:Iwon
On:9/19/2024 9:53
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Inst Id :IC-2
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Correlation coefficient *0.999711*

Sample type	Index	Conc.	Volume	Dilution	Sample amount	Area	Ident	Date	Used
Standard 1	1	0.000	10.0	1.0	1.0	n. d.	STD1	2024-09-16 11:39:22 UTC-4	used
Standard 2	1	0.500	10.0	1.0	1.0	0.120	STD2	2024-09-16 12:00:45 UTC-4	used
Standard 3	1	1.000	10.0	1.0	1.0	0.236	STD3	2024-09-16 12:22:09 UTC-4	used
Standard 4	1	1.250	10.0	1.0	1.0	0.302	STD4	2024-09-16 12:43:34 UTC-4	used
Standard 5	1	2.500	10.0	1.0	1.0	0.596	STD5	2024-09-16 13:05:00 UTC-4	used
Standard 6	1	5.000	10.0	1.0	1.0	1.215	STD6	2024-09-16 13:26:26 UTC-4	used
Standard 7	1	6.250	10.0	1.0	1.0	1.565	STD7	2024-09-16 13:47:53 UTC-4	used

Phosphate (Anions)



Function: . . . . . *A = - 0.0104137 + 8.60889E-3× Q*

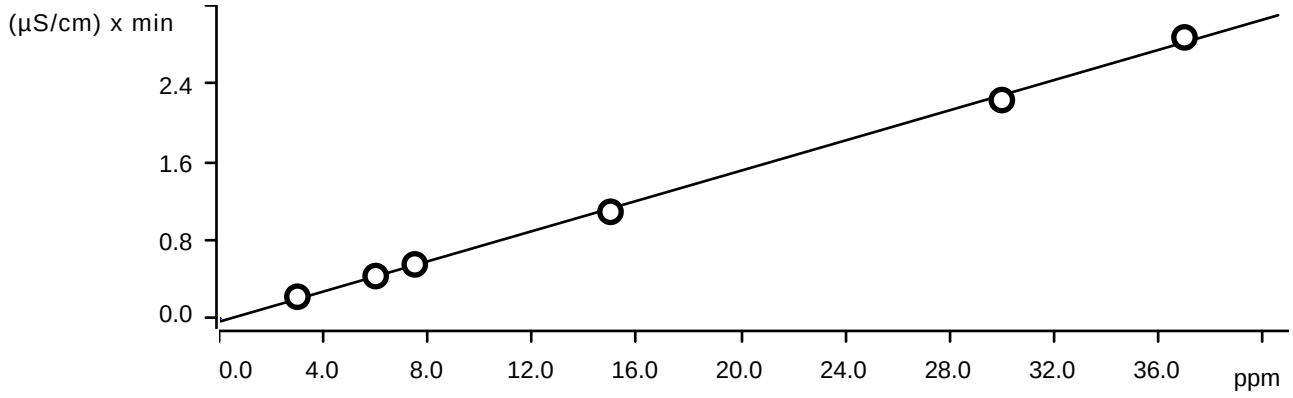
Relative standard deviation . . . . . *2.003622 %*

Correlation coefficient *0.999791*

Sample type	Index	Conc.	Volume	Dilution	Sample amount	Area	Ident	Date	Used
Standard 1	1	0.000	10.0	1.0	1.0	n. d.	STD1	2024-09-16 11:39:22 UTC-4	used
Standard 2	1	1.000	10.0	1.0	1.0	0.082	STD2	2024-09-16 12:00:45 UTC-4	used
Standard 3	1	2.000	10.0	1.0	1.0	0.164	STD3	2024-09-16 12:22:09 UTC-4	used
Standard 4	1	2.500	10.0	1.0	1.0	0.207	STD4	2024-09-16 12:43:34 UTC-4	used
Standard 5	1	5.000	10.0	1.0	1.0	0.408	STD5	2024-09-16 13:05:00 UTC-4	used
Standard 6	1	10.000	10.0	1.0	1.0	0.843	STD6	2024-09-16 13:26:26 UTC-4	used
Standard 7	1	12.500	10.0	1.0	1.0	1.075	STD7	2024-09-16 13:47:53 UTC-4	used

Reviewed By:Iwon
On:9/19/2024 9:53
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Inst Id :IC-2
LB :LB132492

Sulfate (Anions)



Function: . . . . . *A = - 0.0328706 + 7.71866E-3× Q*

Relative standard deviation . . . . . *3.353471 %*

Correlation coefficient *0.999413*

Sample type	Index	Conc.	Volume	Dilution	Sample amount	Area	Ident	Date	Used
Standard 1	1	0.000	10.0	1.0	1.0	n. d.	STD1	2024-09-16 11:39:22 UTC-4	used
Standard 2	1	3.000	10.0	1.0	1.0	0.222	STD2	2024-09-16 12:00:45 UTC-4	used
Standard 3	1	6.000	10.0	1.0	1.0	0.433	STD3	2024-09-16 12:22:09 UTC-4	used
Standard 4	1	7.500	10.0	1.0	1.0	0.553	STD4	2024-09-16 12:43:34 UTC-4	used
Standard 5	1	15.000	10.0	1.0	1.0	1.090	STD5	2024-09-16 13:05:00 UTC-4	used
Standard 6	1	30.000	10.0	1.0	1.0	2.233	STD6	2024-09-16 13:26:26 UTC-4	used
Standard 7	1	37.000	10.0	1.0	1.0	2.874	STD7	2024-09-16 13:47:53 UTC-4	used

Reviewed By:Iwon
On:9/19/2024 9:53
AM
Inst Id :IC-2
LB :LB132492

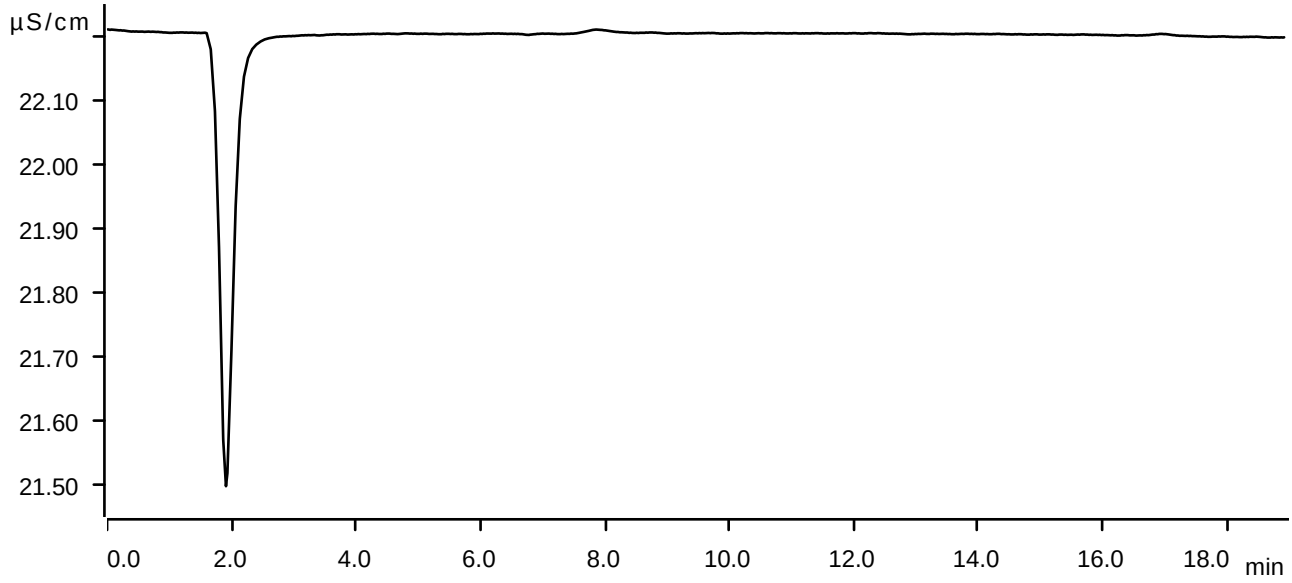
Sample data

Ident	STD1
Sample type	Standard 1
Determination start	2024-09-16 11:39:22 UTC-4
Method	IC1-091624
Operator	

Anions

Data source	Conductivity detector 1 (Eco IC 1)	
Channel	Conductivity	
Recording time	19.0	min
Integration	Automatically	
Column type	Metrosep A Supp 19 - 150/4.0	
Eluent composition	not defined	
Flow	0.700	mL/min
Maximum flow monitored	yes	
Pressure	12.39	MPa
Maximum pressure monitored	yes	
Temperature	-----	°C

Anions



Reviewed By:Iwon
On:9/19/2024 9:53 AM
Inst Id :IC-2
LB :LB132492

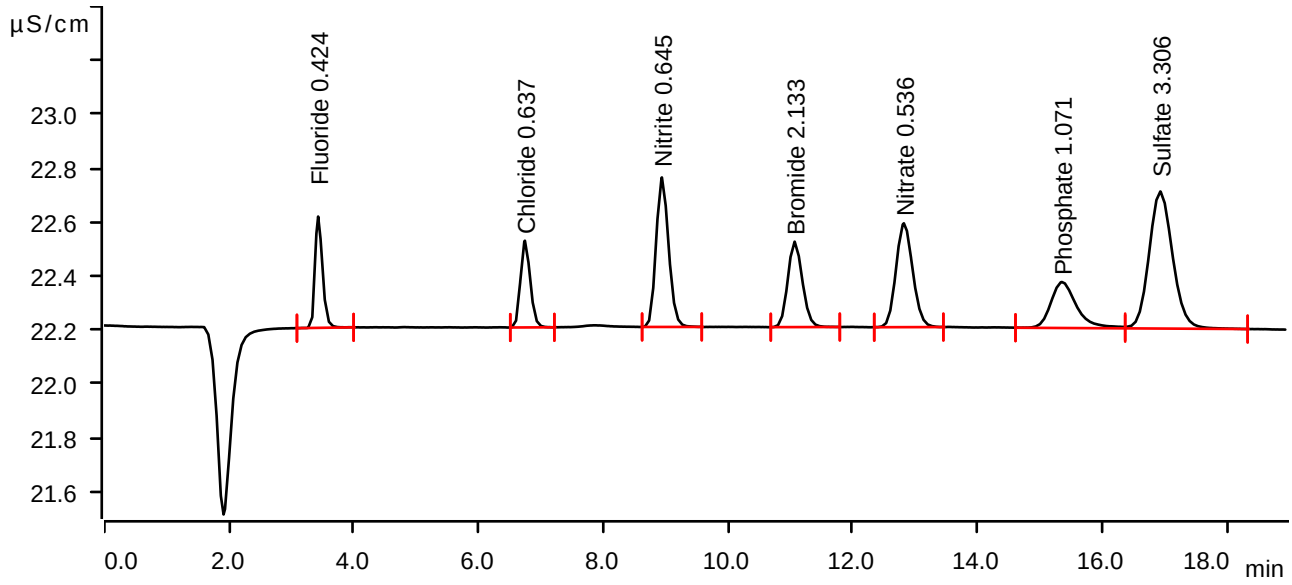
Sample data

Ident	STD2
Sample type	Standard 2
Determination start	2024-09-16 12:00:45 UTC-4
Method	IC1-091624
Operator	

Anions

Data source	Conductivity detector 1 (Eco IC 1)	
Channel	Conductivity	
Recording time	19.0	min
Integration	Automatically	
Column type	Metrosep A Supp 19 - 150/4.0	
Eluent composition	not defined	
Flow	0.700	mL/min
Maximum flow monitored	yes	
Pressure	12.33	MPa
Maximum pressure monitored	yes	
Temperature	-----	°C

Anions



Peak number	Retention time min	Area (µS/cm) x min	Height µS/cm	Concentration ppm	Component name
1	3.428	0.0572	0.413	0.424	Fluoride
2	6.743	0.0585	0.322	0.637	Chloride
3	8.940	0.1292	0.555	0.645	Nitrite
4	11.067	0.0863	0.317	2.133	Bromide
5	12.818	0.1197	0.385	0.536	Nitrate
6	15.352	0.0818	0.171	1.071	Phosphate
7	16.930	0.2223	0.508	3.306	Sulfate

Reviewed By:Iwon
On:9/19/2024 9:53 AM
Inst Id :IC-2
LB :LB132492

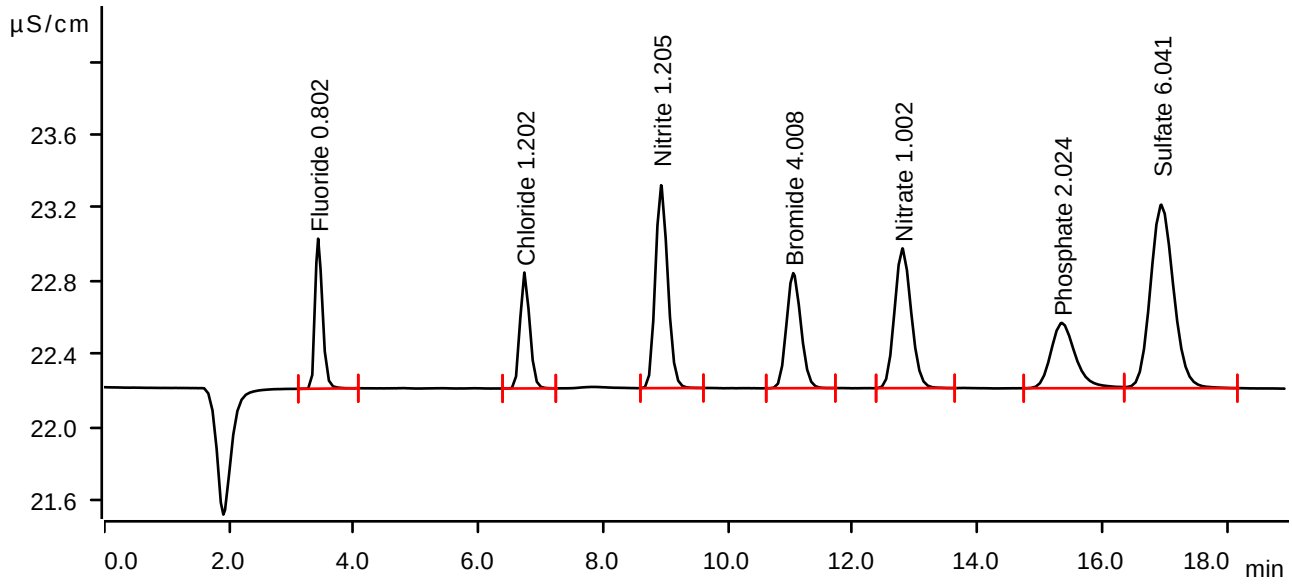
Sample data

Ident	STD3
Sample type	Standard 3
Determination start	2024-09-16 12:22:09 UTC-4
Method	IC1-091624
Operator	

Anions

Data source	Conductivity detector 1 (Eco IC 1)	
Channel	Conductivity	
Recording time	19.0	min
Integration	Automatically	
Column type	Metrosep A Supp 19 - 150/4.0	
Eluent composition	not defined	
Flow	0.700	mL/min
Maximum flow monitored	yes	
Pressure	12.22	MPa
Maximum pressure monitored	yes	
Temperature	-----	°C

Anions



Peak number	Retention time min	Area (µS/cm) x min	Height µS/cm	Concentration ppm	Component name
1	3.428	0.1129	0.820	0.802	Fluoride
2	6.735	0.1145	0.634	1.202	Chloride
3	8.927	0.2562	1.109	1.205	Nitrite
4	11.045	0.1695	0.629	4.008	Bromide
5	12.795	0.2360	0.764	1.002	Nitrate
6	15.353	0.1638	0.357	2.024	Phosphate
7	16.947	0.4334	1.003	6.041	Sulfate

Reviewed By:Iwon
On:9/19/2024 9:53 AM
Inst Id :IC-2
LB :LB132492

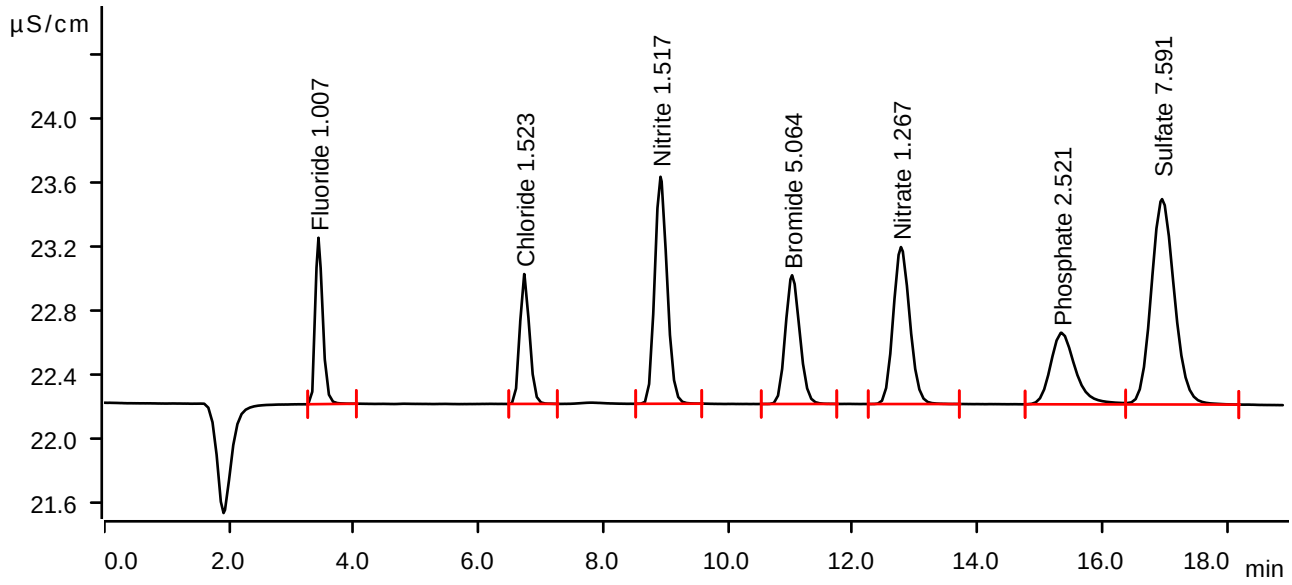
Sample data

Ident	STD4
Sample type	Standard 4
Determination start	2024-09-16 12:43:34 UTC-4
Method	IC1-091624
Operator	

Anions

Data source	Conductivity detector 1 (Eco IC 1)	
Channel	Conductivity	
Recording time	19.0	min
Integration	Automatically	
Column type	Metrosep A Supp 19 - 150/4.0	
Eluent composition	not defined	
Flow	0.700	mL/min
Maximum flow monitored	yes	
Pressure	12.11	MPa
Maximum pressure monitored	yes	
Temperature	-----	°C

Anions



Peak number	Retention time min	Area (µS/cm) x min	Height µS/cm	Concentration ppm	Component name
1	3.433	0.1429	1.040	1.007	Fluoride
2	6.732	0.1464	0.811	1.523	Chloride
3	8.917	0.3271	1.418	1.517	Nitrite
4	11.027	0.2163	0.804	5.064	Bromide
5	12.772	0.3021	0.981	1.267	Nitrate
6	15.345	0.2066	0.448	2.521	Phosphate
7	16.958	0.5530	1.283	7.591	Sulfate

Reviewed By:Iwon
On:9/19/2024 9:53 AM
Inst Id :IC-2
LB :LB132492

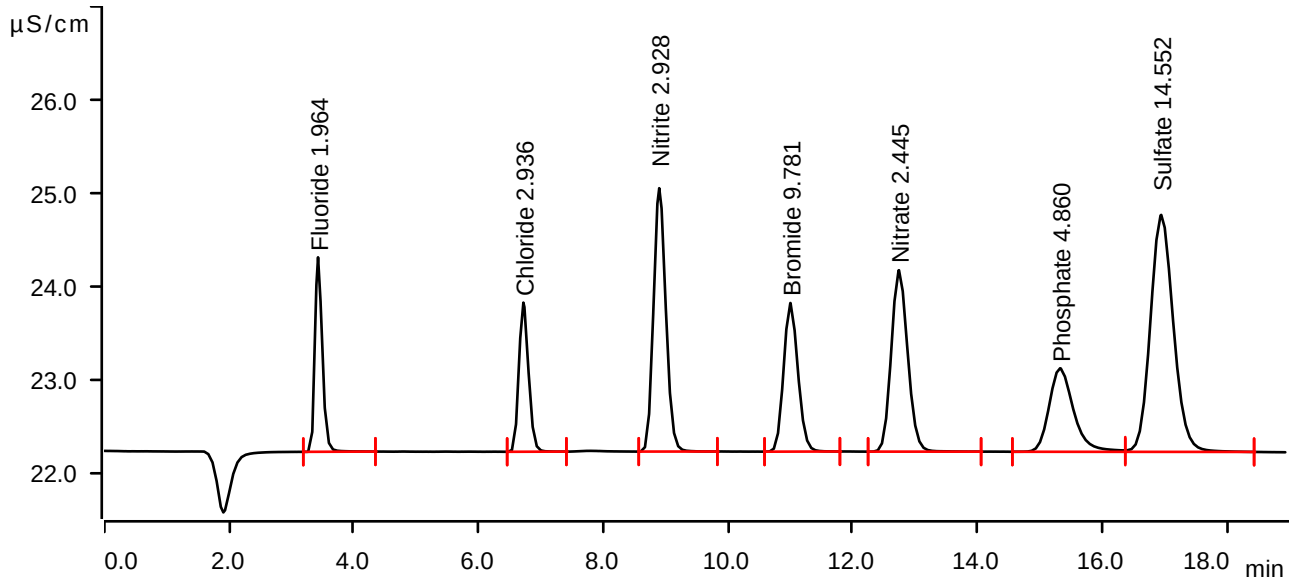
Sample data

Ident	STD5
Sample type	Standard 5
Determination start	2024-09-16 13:05:00 UTC-4
Method	IC1-091624
Operator	

Anions

Data source	Conductivity detector 1 (Eco IC 1)	
Channel	Conductivity	
Recording time	19.0	min
Integration	Automatically	
Column type	Metrosep A Supp 19 - 150/4.0	
Eluent composition	not defined	
Flow	0.700	mL/min
Maximum flow monitored	yes	
Pressure	12.05	MPa
Maximum pressure monitored	yes	
Temperature	-----	°C

Anions



Peak number	Retention time min	Area (µS/cm) x min	Height µS/cm	Concentration ppm	Component name
1	3.427	0.2838	2.088	1.964	Fluoride
2	6.718	0.2865	1.601	2.936	Chloride
3	8.897	0.6473	2.828	2.928	Nitrite
4	10.998	0.4255	1.596	9.781	Bromide
5	12.740	0.5961	1.949	2.445	Nitrate
6	15.323	0.4080	0.897	4.860	Phosphate
7	16.945	1.0904	2.544	14.552	Sulfate

Reviewed By:Iwon
On:9/19/2024 9:53 AM
Inst Id :IC-2
LB :LB132492

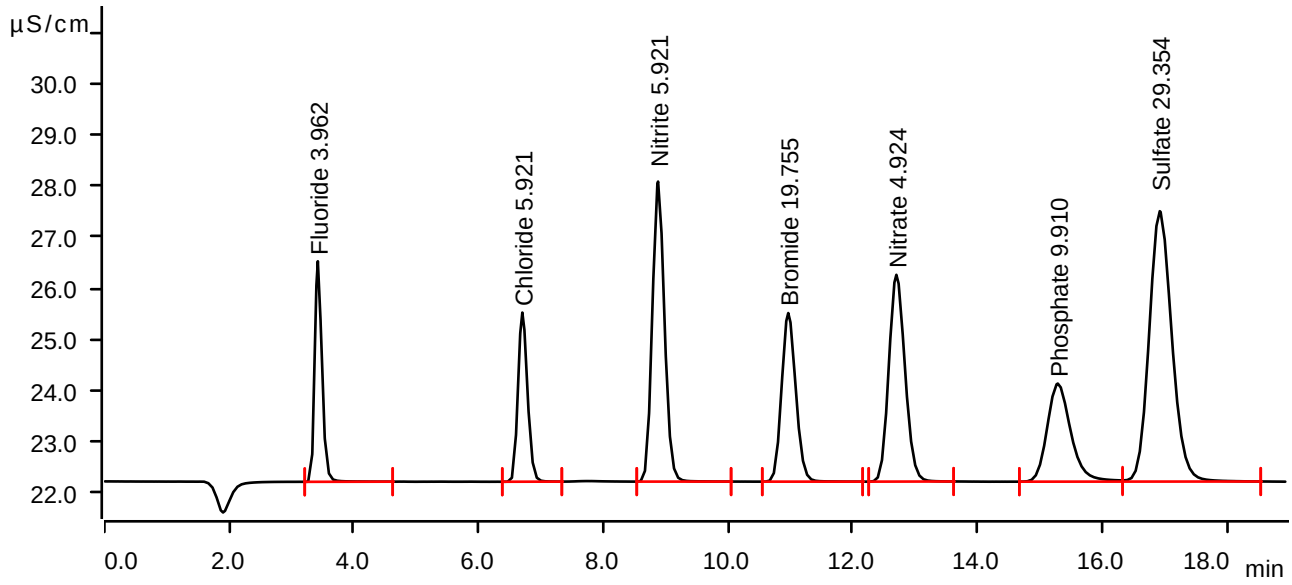
Sample data

Ident	STD6
Sample type	Standard 6
Determination start	2024-09-16 13:26:26 UTC-4
Method	IC1-091624
Operator	

Anions

Data source	Conductivity detector 1 (Eco IC 1)	
Channel	Conductivity	
Recording time	19.0	min
Integration	Automatically	
Column type	Metrosep A Supp 19 - 150/4.0	
Eluent composition	not defined	
Flow	0.700	mL/min
Maximum flow monitored	yes	
Pressure	12.22	MPa
Maximum pressure monitored	yes	
Temperature	-----	°C

Anions



Peak number	Retention time min	Area (µS/cm) x min	Height µS/cm	Concentration ppm	Component name
1	3.423	0.5779	4.306	3.962	Fluoride
2	6.702	0.5827	3.302	5.921	Chloride
3	8.878	1.3268	5.858	5.921	Nitrite
4	10.965	0.8678	3.292	19.755	Bromide
5	12.698	1.2148	4.037	4.924	Nitrate
6	15.287	0.8428	1.914	9.910	Phosphate
7	16.922	2.2329	5.279	29.354	Sulfate

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On:9/19/2024 9:53 AM
Inst Id :IC-2
LB :LB132492

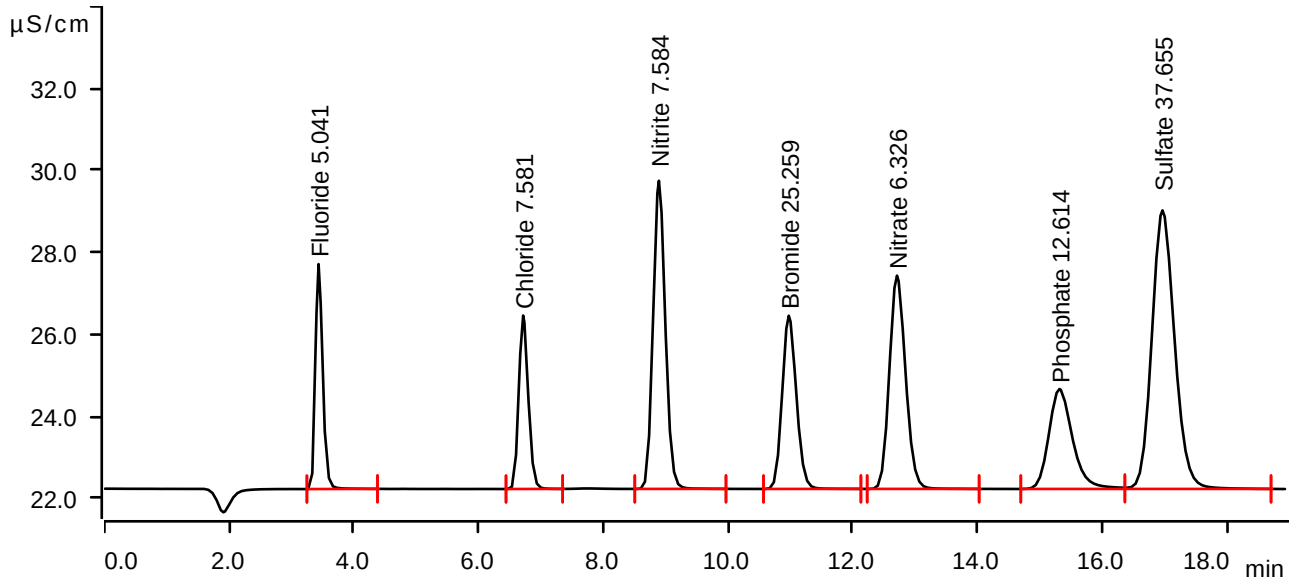
Sample data

Ident	STD7
Sample type	Standard 7
Determination start	2024-09-16 13:47:53 UTC-4
Method	IC1-091624
Operator	

Anions

Data source	Conductivity detector 1 (Eco IC 1)	
Channel	Conductivity	
Recording time	19.0	min
Integration	Automatically	
Column type	Metrosep A Supp 19 - 150/4.0	
Eluent composition	not defined	
Flow	0.700	mL/min
Maximum flow monitored	yes	
Pressure	12.16	MPa
Maximum pressure monitored	yes	
Temperature	-----	°C

Anions



Peak number	Retention time min	Area (µS/cm) x min	Height µS/cm	Concentration ppm	Component name
1	3.435	0.7368	5.489	5.041	Fluoride
2	6.715	0.7473	4.234	7.581	Chloride
3	8.892	1.7044	7.521	7.584	Nitrite
4	10.973	1.1119	4.227	25.259	Bromide
5	12.708	1.5645	5.205	6.326	Nitrate
6	15.313	1.0755	2.439	12.614	Phosphate
7	16.965	2.8736	6.798	37.655	Sulfate

Reviewed By:Iwon
On:9/19/2024 9:53 AM
Inst Id :IC-2
LB :LB132492

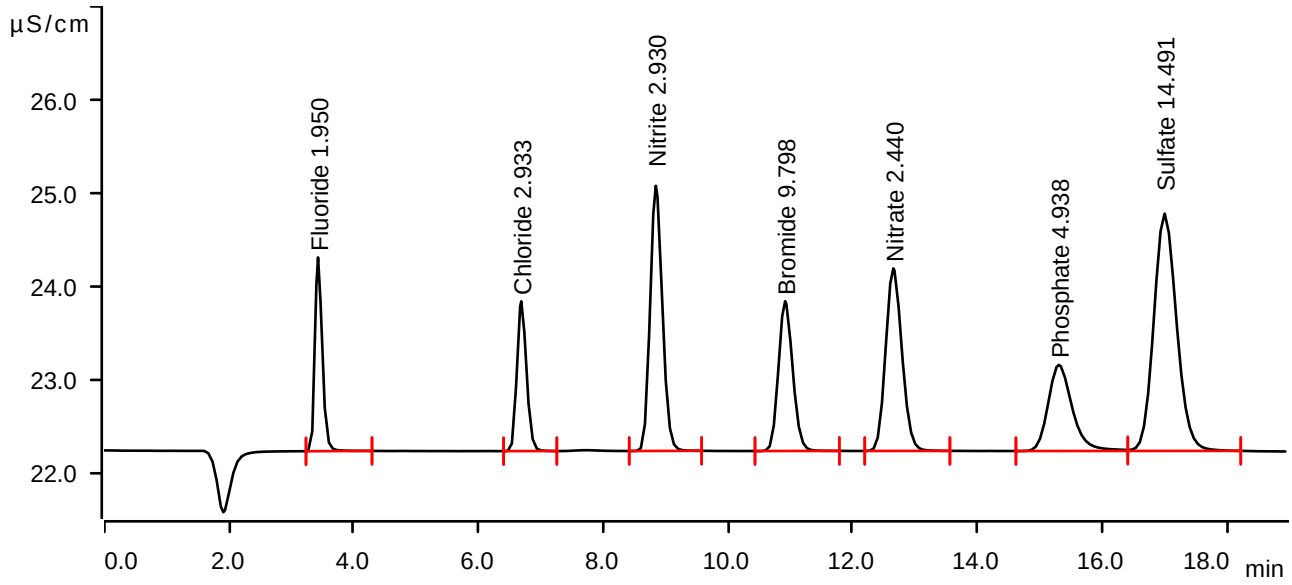
Sample data

Ident	ICV
Sample type	Check standard 1
Determination start	2024-09-16 15:00:21 UTC-4
Method	IC1-091624
Operator	

Anions

Data source	Conductivity detector 1 (Eco IC 1)	
Channel	Conductivity	
Recording time	19.0	min
Integration	Automatically	
Column type	Metrosep A Supp 19 - 150/4.0	
Eluent composition	not defined	
Flow	0.700	mL/min
Maximum flow monitored	yes	
Pressure	11.88	MPa
Maximum pressure monitored	yes	
Temperature	-----	°C

Anions



Peak number	Retention time min	Area (µS/cm) x min	Height µS/cm	Concentration ppm	Component name
1	3.427	0.2818	2.081	1.950	Fluoride
2	6.685	0.2862	1.608	2.933	Chloride
3	8.842	0.6478	2.847	2.930	Nitrite
4	10.915	0.4262	1.608	9.798	Bromide
5	12.650	0.5947	1.960	2.440	Nitrate
6	15.303	0.4147	0.925	4.938	Phosphate
7	16.998	1.0857	2.548	14.491	Sulfate

Reviewed By:Iwon
On:9/19/2024 9:53
AM
Inst Id :IC-2
LB :LB132492

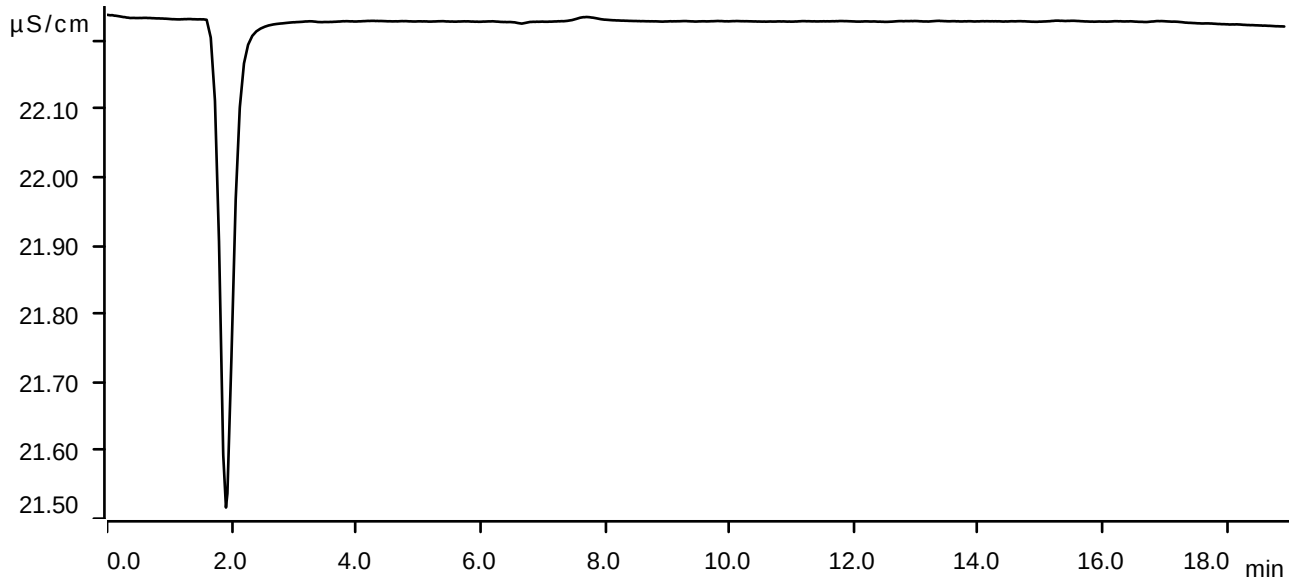
Sample data

Ident	ICB
Sample type	Sample
Determination start	2024-09-16 15:21:50 UTC-4
Method	IC1-091624
Operator	

Anions

Data source	Conductivity detector 1 (Eco IC 1)	
Channel	Conductivity	
Recording time	19.0	min
Integration	Automatically	
Column type	Metrosep A Supp 19 - 150/4.0	
Eluent composition	not defined	
Flow	0.700	mL/min
Maximum flow monitored	yes	
Pressure	12.22	MPa
Maximum pressure monitored	yes	
Temperature	-----	°C

Anions



Reviewed By:Iwon
On:9/19/2024 9:53
AM
Inst Id :IC-2
LB :LB132492

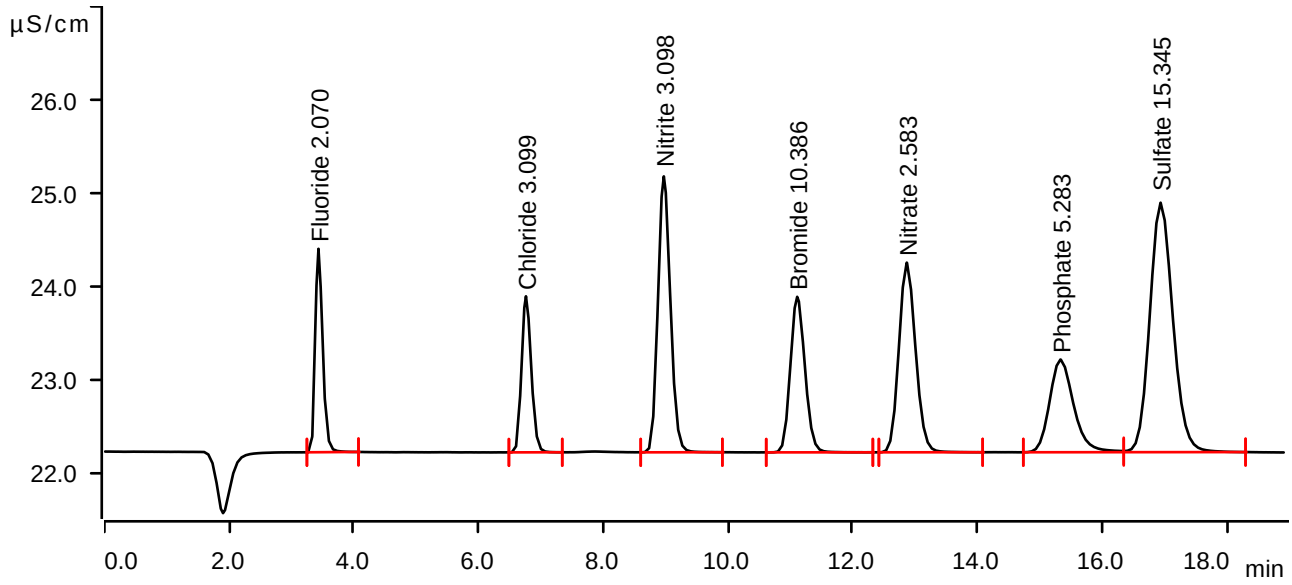
Sample data

Ident	CCV
Sample type	Check standard 1
Determination start	2024-09-17 10:31:07 UTC-4
Method	IC1-091624
Operator	

Anions

Data source	Conductivity detector 1 (Eco IC 1)	
Channel	Conductivity	
Recording time	19.0	min
Integration	Automatically	
Column type	Metrosep A Supp 19 - 150/4.0	
Eluent composition	not defined	
Flow	0.700	mL/min
Maximum flow monitored	yes	
Pressure	12.56	MPa
Maximum pressure monitored	yes	
Temperature	-----	°C

Anions



Peak number	Retention time min	Area (µS/cm) x min	Height µS/cm	Concentration ppm	Component name
1	3.433	0.2995	2.184	2.070	Fluoride
2	6.760	0.3027	1.676	3.099	Chloride
3	8.970	0.6861	2.963	3.098	Nitrite
4	11.108	0.4523	1.670	10.386	Bromide
5	12.863	0.6306	2.037	2.583	Nitrate
6	15.328	0.4444	0.995	5.283	Phosphate
7	16.935	1.1515	2.678	15.345	Sulfate

Reviewed By:Iwon
On:9/19/2024 9:53
AM
Inst Id :IC-2
LB :LB132492

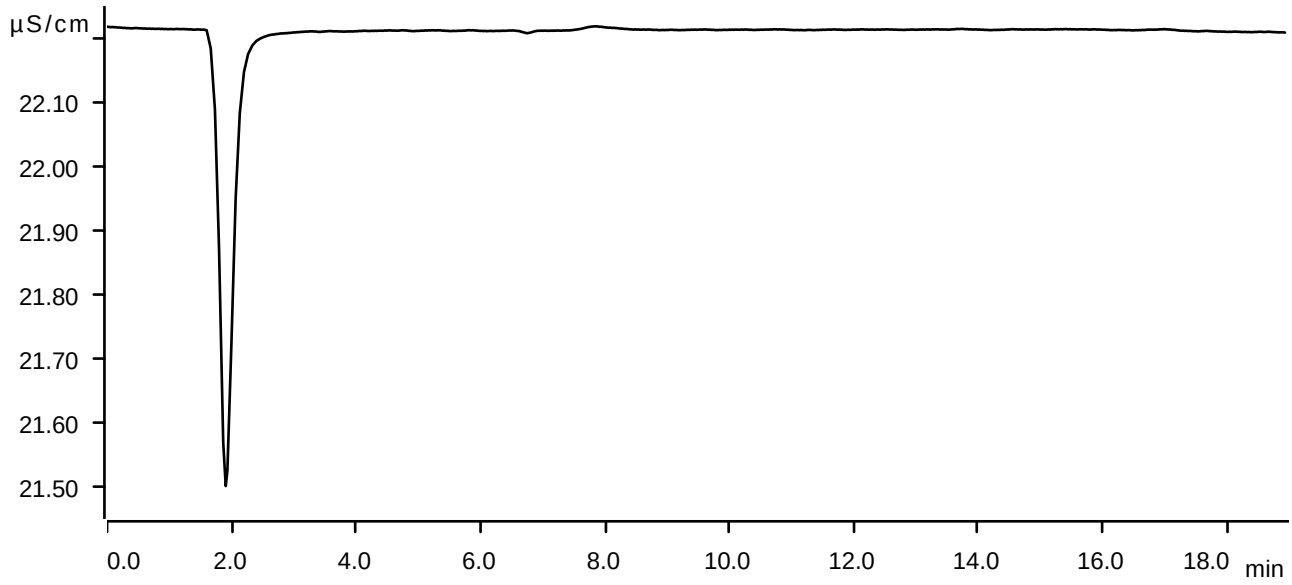
Sample data

Ident	CCB
Sample type	Sample
Determination start	2024-09-17 10:52:37 UTC-4
Method	IC1-091624
Operator	

Anions

Data source	Conductivity detector 1 (Eco IC 1)	
Channel	Conductivity	
Recording time	19.0	min
Integration	Automatically	
Column type	Metrosep A Supp 19 - 150/4.0	
Eluent composition	not defined	
Flow	0.700	mL/min
Maximum flow monitored	yes	
Pressure	12.27	MPa
Maximum pressure monitored	yes	
Temperature	-----	°C

Anions



Reviewed By:Iwon
On:9/19/2024 9:53
AM
Inst Id :IC-2
LB :LB132492

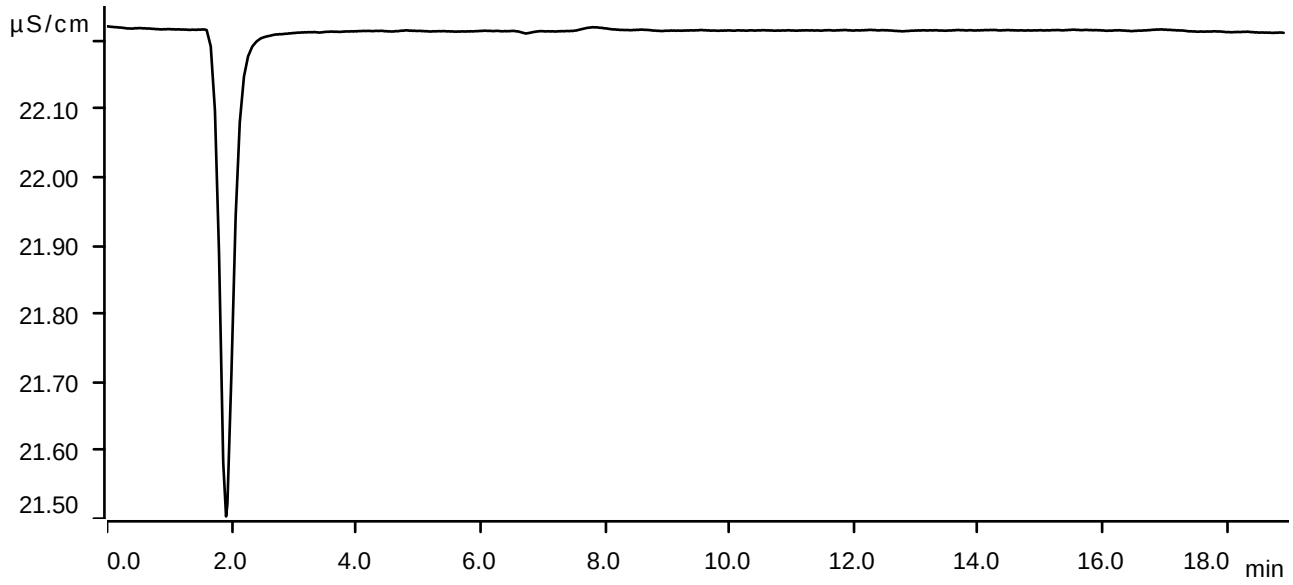
Sample data

Ident	LB132492BLW
Sample type	Sample
Determination start	2024-09-17 11:14:06 UTC-4
Method	IC1-091624
Operator	

Anions

Data source	Conductivity detector 1 (Eco IC 1)	
Channel	Conductivity	
Recording time	19.0	min
Integration	Automatically	
Column type	Metrosep A Supp 19 - 150/4.0	
Eluent composition	not defined	
Flow	0.700	mL/min
Maximum flow monitored	yes	
Pressure	12.22	MPa
Maximum pressure monitored	yes	
Temperature	-----	°C

Anions



Reviewed By:Iwon
On:9/19/2024 9:53
AM
Inst Id :IC-2
LB :LB132492

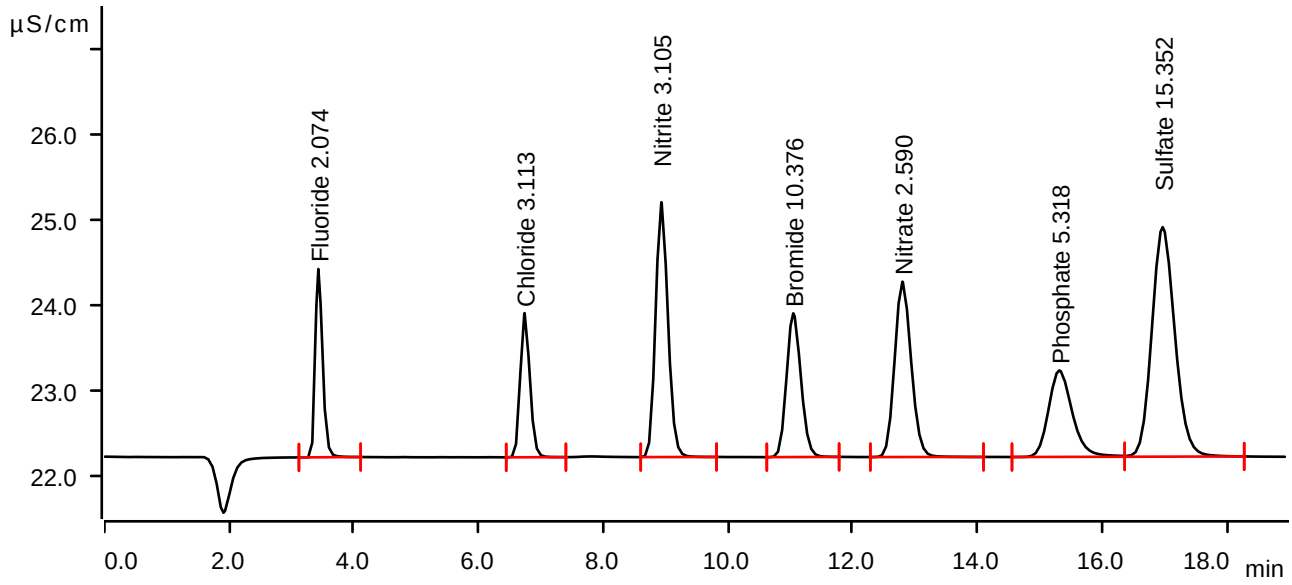
Sample data

Ident	LB132492BSW
Sample type	Check standard 1
Determination start	2024-09-17 11:35:37 UTC-4
Method	IC1-091624
Operator	

Anions

Data source	Conductivity detector 1 (Eco IC 1)	
Channel	Conductivity	
Recording time	19.0	min
Integration	Automatically	
Column type	Metrosep A Supp 19 - 150/4.0	
Eluent composition	not defined	
Flow	0.700	mL/min
Maximum flow monitored	yes	
Pressure	12.11	MPa
Maximum pressure monitored	yes	
Temperature	-----	°C

Anions



Peak number	Retention time min	Area (µS/cm) x min	Height µS/cm	Concentration ppm	Component name
1	3.432	0.3001	2.206	2.074	Fluoride
2	6.738	0.3041	1.688	3.113	Chloride
3	8.930	0.6876	2.984	3.105	Nitrite
4	11.045	0.4518	1.684	10.376	Bromide
5	12.795	0.6322	2.054	2.590	Nitrate
6	15.312	0.4474	1.013	5.318	Phosphate
7	16.968	1.1521	2.688	15.352	Sulfate

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On:9/19/2024 9:53 AM
Inst Id :IC-2
LB :LB132492

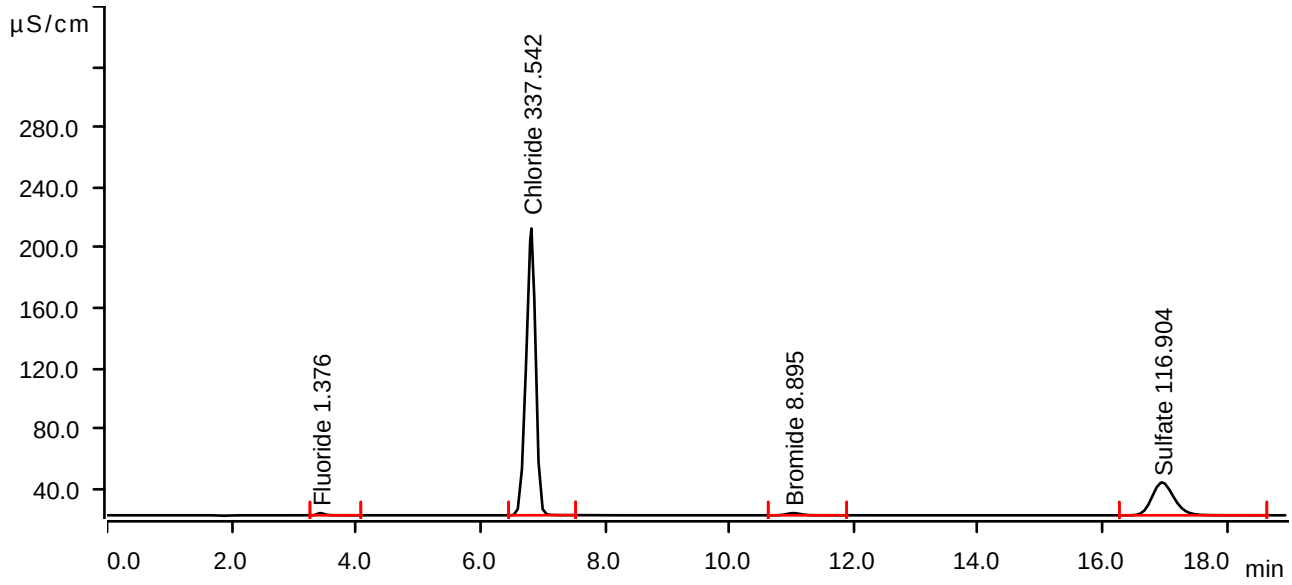
Sample data

Ident	P3848-06
Sample type	Sample
Determination start	2024-09-17 12:03:42 UTC-4
Method	IC1-091624
Operator	

Anions

Data source	Conductivity detector 1 (Eco IC 1)	
Channel	Conductivity	
Recording time	19.0	min
Integration	Automatically	
Column type	Metrosep A Supp 19 - 150/4.0	
Eluent composition	not defined	
Flow	0.700	mL/min
Maximum flow monitored	yes	
Pressure	11.99	MPa
Maximum pressure monitored	yes	
Temperature	-----	°C

Anions



Peak number	Retention time min	Area (µS/cm) x min	Height µS/cm	Concentration ppm	Component name
1	3.428	0.1974	1.457	1.376	Fluoride
2	6.820	33.4815	190.328	337.542	Chloride
3	11.027	0.3862	1.446	8.895	Bromide
4	16.953	8.9905	21.856	116.904	Sulfate

Reviewed By:Iwon
On:9/19/2024 9:53
AM
Inst Id :IC-2
LB :LB132492

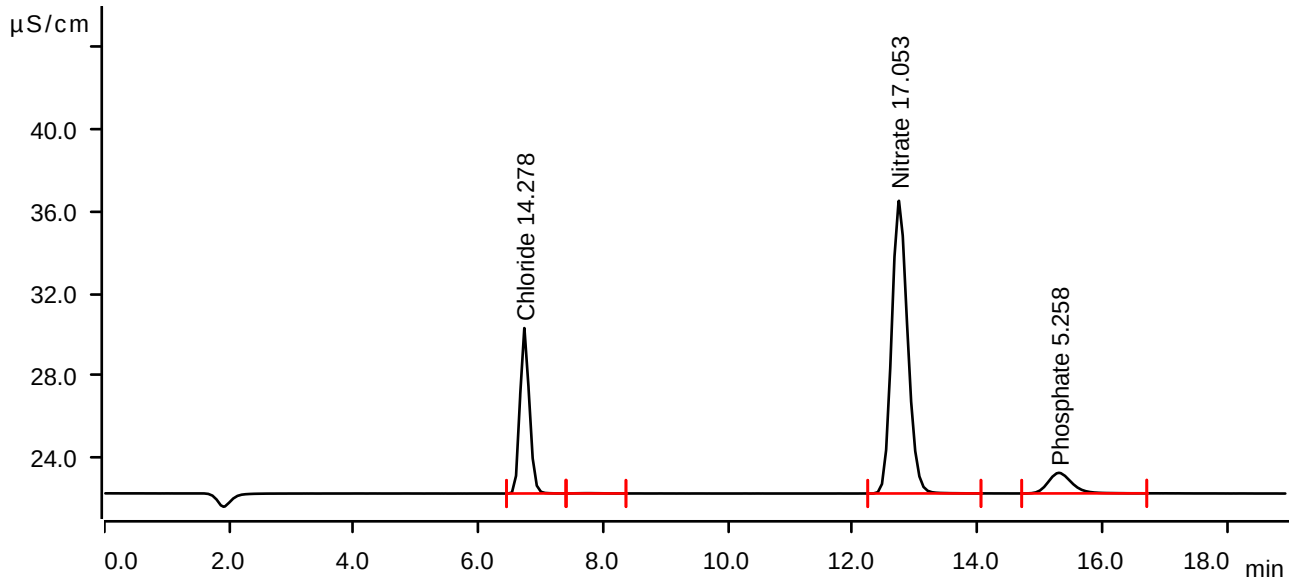
Sample data

Ident	P3848-12
Sample type	Sample
Determination start	2024-09-17 12:25:14 UTC-4
Method	IC1-091624
Operator	

Anions

Data source	Conductivity detector 1 (Eco IC 1)	
Channel	Conductivity	
Recording time	19.0	min
Integration	Automatically	
Column type	Metrosep A Supp 19 - 150/4.0	
Eluent composition	not defined	
Flow	0.700	mL/min
Maximum flow monitored	yes	
Pressure	12.05	MPa
Maximum pressure monitored	yes	
Temperature	-----	°C

Anions



Peak number	Retention time min	Area (µS/cm) x min	Height µS/cm	Concentration ppm	Component name
1	6.733	1.4117	8.072	14.278	Chloride
2	7.730	0.0051	0.012	invalid	
3	12.740	4.2413	14.285	17.053	Nitrate
4	15.303	0.4423	1.004	5.258	Phosphate

Reviewed By:Iwon
On:9/19/2024 9:53
AM
Inst Id :IC-2
LB :LB132492

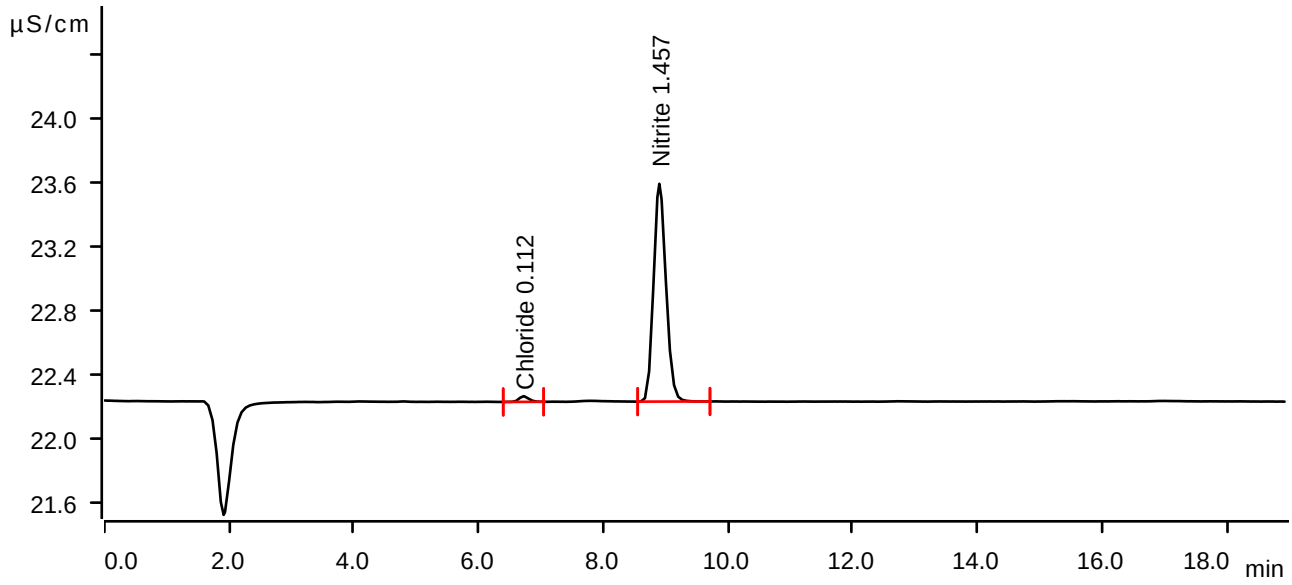
Sample data

Ident	P3848-16
Sample type	Sample
Determination start	2024-09-17 12:46:48 UTC-4
Method	IC1-091624
Operator	

Anions

Data source	Conductivity detector 1 (Eco IC 1)	
Channel	Conductivity	
Recording time	19.0	min
Integration	Automatically	
Column type	Metrosep A Supp 19 - 150/4.0	
Eluent composition	not defined	
Flow	0.700	mL/min
Maximum flow monitored	yes	
Pressure	12.05	MPa
Maximum pressure monitored	yes	
Temperature	-----	°C

Anions



Peak number	Retention time min	Area (µS/cm) x min	Height µS/cm	Concentration ppm	Component name
1	6.720	0.0064	0.035	0.112	Chloride
2	8.898	0.3135	1.361	1.457	Nitrite

Reviewed By:Iwon
On:9/19/2024 9:53
AM
Inst Id :IC-2
LB :LB132492

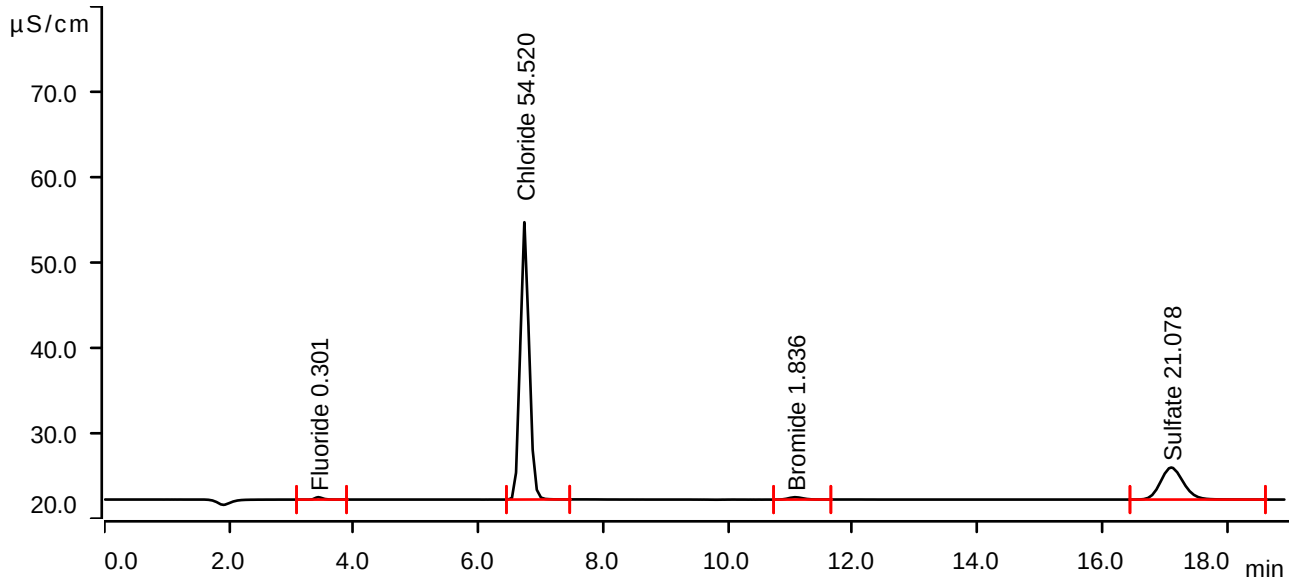
Sample data

Ident	P3848-06DLX5
Sample type	Sample
Determination start	2024-09-17 13:08:21 UTC-4
Method	IC1-091624
Operator	

Anions

Data source	Conductivity detector 1 (Eco IC 1)	
Channel	Conductivity	
Recording time	19.0	min
Integration	Automatically	
Column type	Metrosep A Supp 19 - 150/4.0	
Eluent composition	not defined	
Flow	0.700	mL/min
Maximum flow monitored	yes	
Pressure	11.88	MPa
Maximum pressure monitored	yes	
Temperature	-----	°C

Anions



Peak number	Retention time min	Area (µS/cm) x min	Height µS/cm	Concentration ppm	Component name
1	3.430	0.0391	0.285	0.301	Fluoride
2	6.735	5.4040	32.487	54.520	Chloride
3	11.077	0.0731	0.275	1.836	Bromide
4	17.105	1.5941	3.754	21.078	Sulfate

Reviewed By:Iwon
On:9/19/2024 9:53 AM
Inst Id :IC-2
LB :LB132492

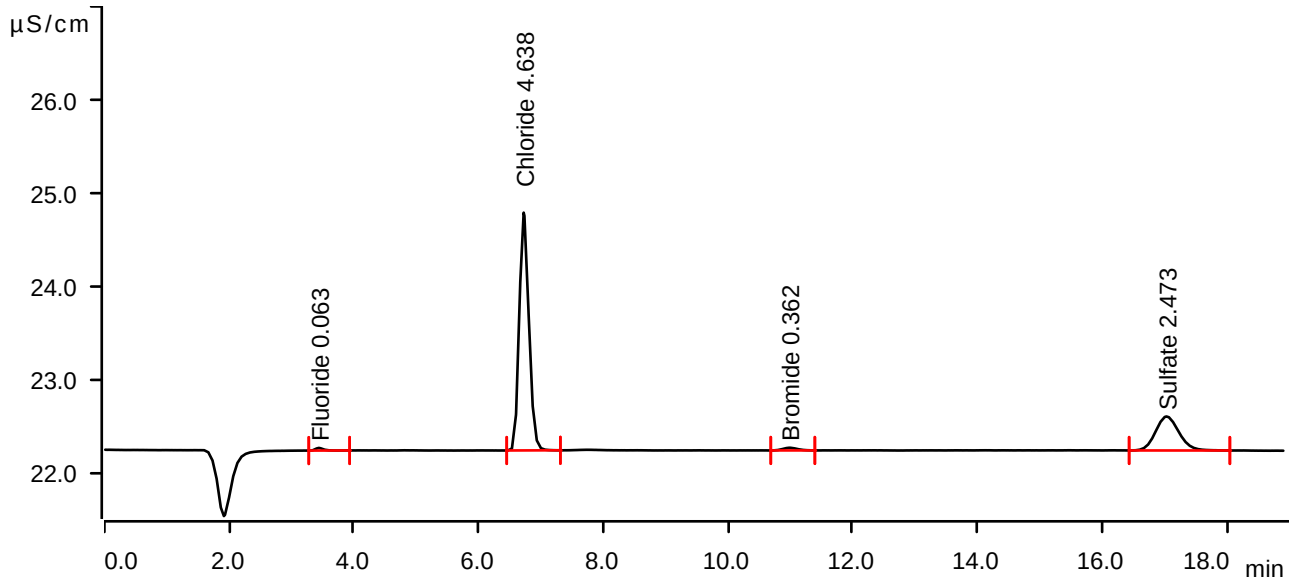
Sample data

Ident	P3848-06DL2X50
Sample type	Sample
Determination start	2024-09-17 13:29:54 UTC-4
Method	IC1-091624
Operator	

Anions

Data source	Conductivity detector 1 (Eco IC 1)	
Channel	Conductivity	
Recording time	19.0	min
Integration	Automatically	
Column type	Metrosep A Supp 19 - 150/4.0	
Eluent composition	not defined	
Flow	0.700	mL/min
Maximum flow monitored	yes	
Pressure	11.88	MPa
Maximum pressure monitored	yes	
Temperature	-----	°C

Anions



Peak number	Retention time min	Area (µS/cm) x min	Height µS/cm	Concentration ppm	Component name
1	3.440	0.0040	0.028	0.063	Fluoride
2	6.723	0.4554	2.553	4.638	Chloride
3	10.978	0.0078	0.029	0.362	Bromide
4	17.028	0.1580	0.365	2.473	Sulfate

Reviewed By:Iwon
On:9/19/2024 9:53 AM
Inst Id :IC-2
LB :LB132492

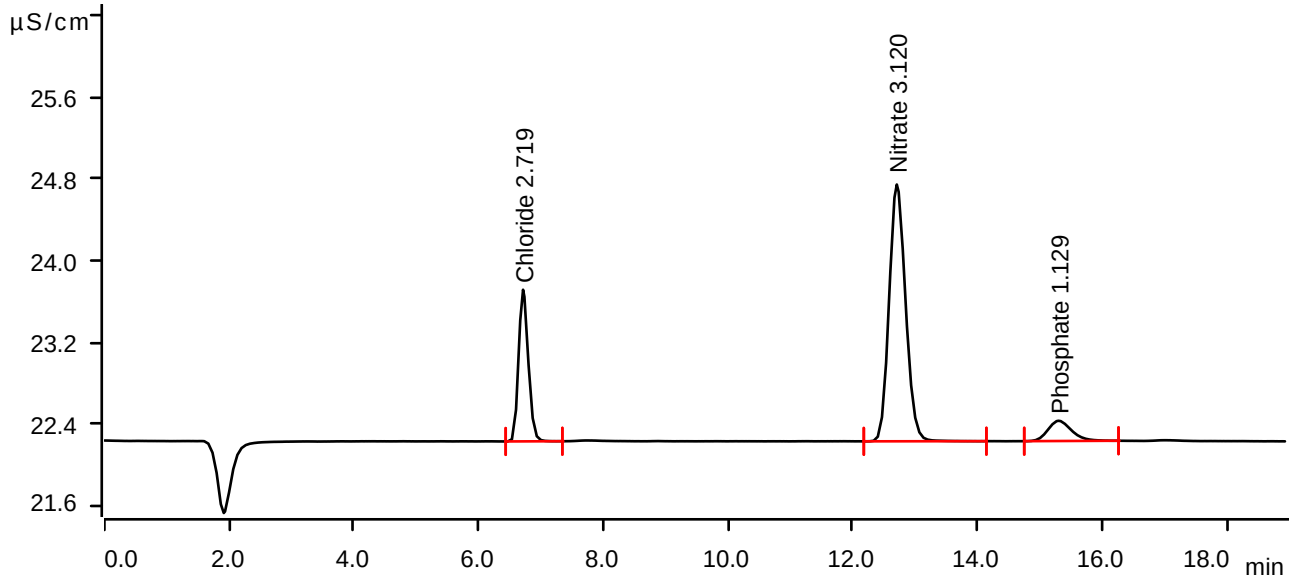
Sample data

Ident	P3848-12DLX5
Sample type	Sample
Determination start	2024-09-17 13:51:27 UTC-4
Method	IC1-091624
Operator	

Anions

Data source	Conductivity detector 1 (Eco IC 1)	
Channel	Conductivity	
Recording time	19.0	min
Integration	Automatically	
Column type	Metrosep A Supp 19 - 150/4.0	
Eluent composition	not defined	
Flow	0.700	mL/min
Maximum flow monitored	yes	
Pressure	11.88	MPa
Maximum pressure monitored	yes	
Temperature	-----	°C

Anions



Peak number	Retention time min	Area (µS/cm) x min	Height µS/cm	Concentration ppm	Component name
1	6.713	0.2650	1.480	2.719	Chloride
2	12.705	0.7645	2.507	3.120	Nitrate
3	15.297	0.0867	0.198	1.129	Phosphate

Reviewed By:Iwon
On:9/19/2024 9:53 AM
Inst Id :IC-2
LB :LB132492

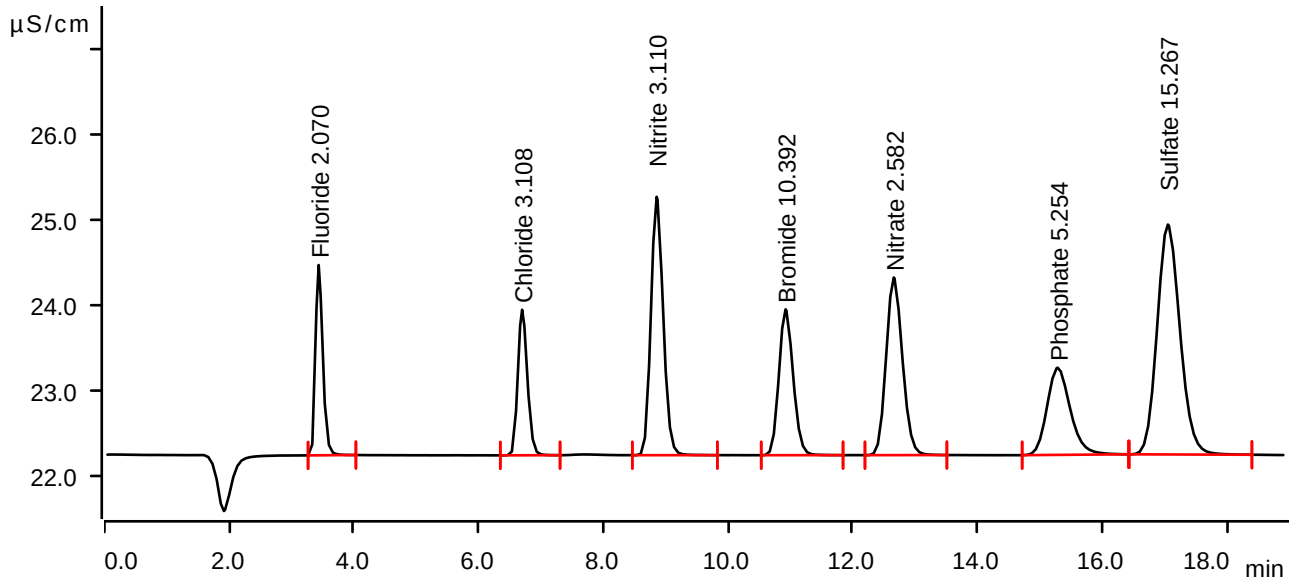
Sample data

Ident	CCV
Sample type	Check standard 1
Determination start	2024-09-17 14:56:07 UTC-4
Method	IC1-091624
Operator	

Anions

Data source	Conductivity detector 1 (Eco IC 1)	
Channel	Conductivity	
Recording time	19.0	min
Integration	Automatically	
Column type	Metrosep A Supp 19 - 150/4.0	
Eluent composition	not defined	
Flow	0.700	mL/min
Maximum flow monitored	yes	
Pressure	11.77	MPa
Maximum pressure monitored	yes	
Temperature	-----	°C

Anions



Peak number	Retention time min	Area (µS/cm) x min	Height µS/cm	Concentration ppm	Component name
1	3.437	0.2994	2.229	2.070	Fluoride
2	6.698	0.3036	1.705	3.108	Chloride
3	8.855	0.6888	3.026	3.110	Nitrite
4	10.922	0.4526	1.708	10.392	Bromide
5	12.657	0.6303	2.081	2.582	Nitrate
6	15.285	0.4419	1.021	5.254	Phosphate
7	17.052	1.1455	2.693	15.267	Sulfate

Reviewed By:Iwon
On:9/19/2024 9:53
AM
Inst Id :IC-2
LB :LB132492

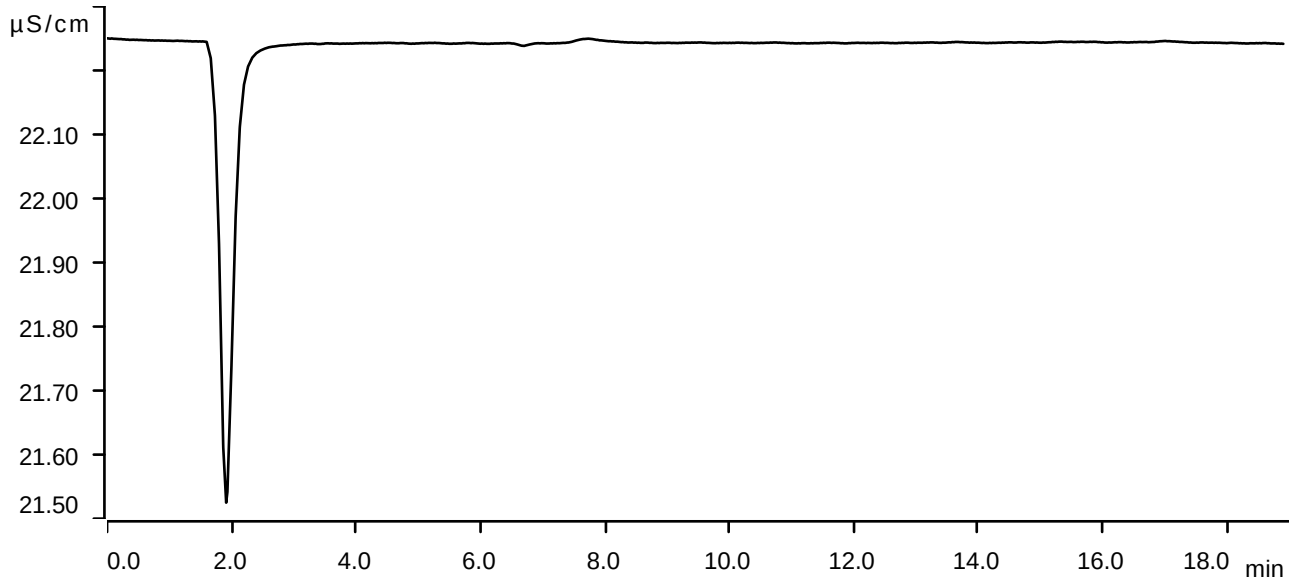
Sample data

Ident	CCB
Sample type	Sample
Determination start	2024-09-17 15:17:22 UTC-4
Method	IC1-091624
Operator	

Anions

Data source	Conductivity detector 1 (Eco IC 1)	
Channel	Conductivity	
Recording time	19.0	min
Integration	Automatically	
Column type	Metrosep A Supp 19 - 150/4.0	
Eluent composition	not defined	
Flow	0.700	mL/min
Maximum flow monitored	yes	
Pressure	11.77	MPa
Maximum pressure monitored	yes	
Temperature	-----	°C

Anions



LB132492

WORKLIST(Hardcopy Internal Chain)

WorkList Name : ANIONS- 09172024 **WorkList ID :** 183619 **Department :** Wet-Chemistry **Date :** 09-17-2024 09:45:30

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P3848-06	PT-MIN1-WP	Water	Anions Group1	Cool 4 deg C	CHEM02	QA Of	09/03/2024	9056A
P3848-12	PT-NUT1-WP	Water	Anions Group2	Cool 4 deg C	CHEM02	QA Of	09/03/2024	9056A
P3848-16	PT-NUT3-WP	Water	Anions Group5	Cool 4 deg C	CHEM02	QA Of	09/03/2024	9056A

Date/Time 09.17.2024, 09:55
Raw Sample Received by: NF(WC)
Raw Sample Relinquished by: SJ(QAO)

Date/Time NA
Raw Sample Received by: "
Raw Sample Relinquished by: "

Reviewed By:Iwona
On:9/19/2024 9:53:48 AM
Inst Id :IC-2
LB :LB132492

Reviewed By:Iwona
On:9/20/2024 10:13:23 AM
Inst Id :Konelab 20
LB :LB132507

LB1325

Test results | Aquakem 7.2AQ1 | Page: 1

CHEMTECH CONSULTING GROUP INC
284 Sheffield Street, Mountainside, NJ 07092

Reviewed by : RM | Instrument ID : Konelab

9/19/2024 9:24

Test: TKN-NH3

Sample Id	Result	Dil. 1 +	Response	Errors
ICV1	4.754	0.0	0.661	
ICB1	0.033	0.0	0.022	
CCV1	4.945	0.0	0.687	
CCB1	0.026	0.0	0.021	
RL CHECK	0.469	0.0	0.081	
PB163389BL	0.024	0.0	0.020	
PB163389BS	4.956	0.0	0.688	
P3848-13	13.641	0.0	1.865	Test limit high
P4085-05	0.315	0.0	0.060	
P4085-05DUP	0.330	0.0	0.062	
P4085-05MS	4.883	0.0	0.679	
P4085-05MSD	4.666	0.0	0.649	
CCV2	4.789	0.0	0.666	
CCB2	0.046	0.0	0.023	
P3848-13DLX2	7.122	0.0	0.982	
CCV3	4.740	0.0	0.659	
CCB3	0.027	0.0	0.021	

93% (50–150)
09/19/2024
RM

N	17
Mean	3.280
SD	3.6821
CV%	112.25

Reviewed By:Iwona
On:9/20/2024 10:13:23 AM
Inst Id :Konelab 20
LB :LB132507

Aquakem v. 7.2AQ1
Results from time period:
Wed Sep 18 15:09:44 2024
Wed Sep 18 17:25:09 2024

Sample Id	Sam/Ctr/cA	Test short r	Test type	Result	Result unit	Result date and time	Stat
0.0PPM	A	TKN-NH3	P	0.0402	mg/l	9/18/2024 15:09:44	
0.5PPM	A	TKN-NH3	P	0.449	mg/l	9/18/2024 15:09:45	
1.0PPM	A	TKN-NH3	P	0.9504	mg/l	9/18/2024 15:09:46	
2.5PPM	A	TKN-NH3	P	2.539	mg/l	9/18/2024 15:09:47	
5.0PPM	A	TKN-NH3	P	4.8535	mg/l	9/18/2024 15:09:48	
6.7PPM	A	TKN-NH3	P	6.9573	mg/l	9/18/2024 15:09:49	
10.0PPM	A	TKN-NH3	P	9.8772	mg/l	9/18/2024 15:09:50	
ICV1	S	TKN-NH3	P	4.7542	mg/l	9/18/2024 16:26:05	
ICB1	S	TKN-NH3	P	0.0327	mg/l	9/18/2024 16:26:07	
CCV1	S	TKN-NH3	P	4.9452	mg/l	9/18/2024 16:26:09	
CCB1	S	TKN-NH3	P	0.0257	mg/l	9/18/2024 16:26:12	
RL CHECK	S	TKN-NH3	P	0.4694	mg/l	9/18/2024 16:26:14	
PB163389BL	S	TKN-NH3	P	0.0238	mg/l	9/18/2024 16:26:16	
PB163389BS	S	TKN-NH3	P	4.9563	mg/l	9/18/2024 16:36:50	
P3848-13	S	TKN-NH3	P	13.6407	mg/l	9/18/2024 16:36:58	
P4085-05	S	TKN-NH3	P	0.3151	mg/l	9/18/2024 16:47:35	
P4085-05DUP	S	TKN-NH3	P	0.3304	mg/l	9/18/2024 16:47:37	
P4085-05MS	S	TKN-NH3	P	4.8833	mg/l	9/18/2024 16:47:39	
P4085-05MSD	S	TKN-NH3	P	4.6656	mg/l	9/18/2024 16:47:40	
CCV2	S	TKN-NH3	P	4.7891	mg/l	9/18/2024 16:56:35	
CCB2	S	TKN-NH3	P	0.0464	mg/l	9/18/2024 16:56:37	
P3848-13DLX2	S	TKN-NH3	P	7.1216	mg/l	9/18/2024 17:17:52	
CCV3	S	TKN-NH3	P	4.7399	mg/l	9/18/2024 17:17:54	
CCB3	S	TKN-NH3	P	0.0271	mg/l	9/18/2024 17:17:57	

Reviewed By:Iwona
On:9/20/2024 10:13:23 AM
Inst Id :Konelab 20
LB :LB132507

Calibration results Aquakem 7.2AQ1 Page:

CHEMTECH CONSULTING GROUP INC
284 Sheffield Street, Mountainside, NJ 07092

Reviewed by : RM Instrument ID : Konelab

9/18/2024 15:39

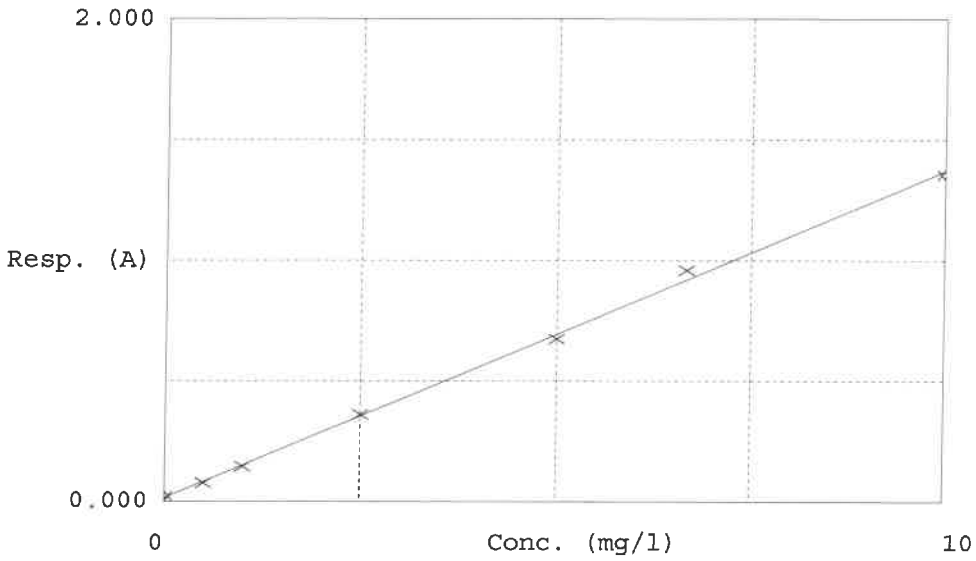
Test TKN-NH3

Accepted 9/18/2024 15:39

Factor 7.383
Bias 0.017

Coeff. of det. 0.998442

Errors



	Calibrator	Response	Calc. con.	Conc.	Errors
1	0.00PPM	0.023	0.0402	0.0000	
2	TKN-10	0.078	0.4490	0.5000	-10.2
3	TKN-10	0.146	0.9504	1.0000	-5.0
4	TKN-10	0.361	2.5390	2.5000	1.6
5	TKN-10	0.675	4.8535	5.0000	-2.9
6	TKN-10	0.959	6.9573	6.6667	3.8
7	TKN-10	1.355	9.8772	10.0000	-1.2

09/18/2024
RM

Reviewed By:Iwona
On:12/2/2024 11:41:29 AM
Inst Id :SPECTROPHOTOME

Alliance TECHNICAL GROUP

Analytical Summary Report

Analysis Method: SM5220 D
Parameter: COD
Run Number: LB132508

ANALYST: Niha
SUPERVISOR REVIEW BY: Iwona

Reagent/Standard	Lot/Log #
COD Digestion Vials Low Level 0-150Mg/L	W3068
COD ICV-LCS std, 50ppm	WP108671
COD calibration std. 100 ppm	WP108668
COD calibration std. 10 ppm	WP108666
COD calibration std. 150 ppm	WP108669
COD calibration std. 50 ppm	WP108667
COD calibration std. 0 ppm	WP108665
COD ICV-LCS std, 50ppm	WP109777
COD ICV-LCS std, 50ppm	WP109777
COD CCV std, 50ppm	WP109776

Temp In(C): 148	**Date In:** 09/19/2024	**Time In:** 10:20
Temp Out(C): 150	**Date Out:** 09/19/2024	**Time Out:** 12:20

Intercept: -0.1322 **Slope:** 1.0183 **Regression:** 1

Seq	Lab ID	TrueValue (mg/l)	DF	MATRIX	Reading	Result (mg/l)	%D	Anal Date	Anal Time
1	CAL1	0	1	Water	0.000	0.13		07/09/2024	14:20
2	CAL2	10	1	Water	10.000	9.95	-0.5	07/09/2024	14:20
3	CAL3	50	1	Water	51.000	50.213	0.4	07/09/2024	14:21
4	CAL4	100	1	Water	101.000	99.315	-0.7	07/09/2024	14:21
5	CAL5	150	1	Water	153.000	150.38	0.3	07/09/2024	14:22

Analytical Summary Report

Reviewed By:Iwona
On:12/2/2024 11:41:29 AM
Inst Id :SPECTROPHOTOME

Analysis Method: SM5220 D

ANALYST: Niha

Parameter: COD

SUPERVISOR REVIEW BY: Iwona

Run Number: LB132508

Seq	Lab ID	True Value (mg/l)	Initial Weight (g)	Final Vol (ml)	DF	MATRIX	Reading	Result	AnalDate	AnalTime
1	ICV	50	NA	NA	1	Water	50.000	49.231	07/09/2024	14:22
2	ICB		NA	NA	1	Water	0.000	0.130	07/09/2024	14:23
3	CCV1	50	NA	NA	1	Water	50.000	49.231	09/19/2024	14:30
4	CCB1		NA	NA	1	Water	0.000	0.130	09/19/2024	14:30
5	LB132508BL		NA	NA	1	Water	0.000	0.130	09/19/2024	14:31
6	LB132508BS	50	NA	NA	1	Water	49.000	48.249	09/19/2024	14:31
7	P3848-03		NA	NA	2	Water	91.000	89.494	09/19/2024	14:32
8	P4085-05		NA	NA	1	Water	9.000	8.968	09/19/2024	14:32
9	P4085-05DUP		NA	NA	1	Water	10.000	9.950	09/19/2024	14:33
10	P4085-05MS	50	NA	NA	1	Water	60.000	59.052	09/19/2024	14:33
11	P4085-05MSD	50	NA	NA	1	Water	58.000	57.087	09/19/2024	14:34
12	CCV2	50	NA	NA	1	Water	50.000	49.231	09/19/2024	14:34
13	CCB2		NA	NA	1	Water	0.000	0.130	09/19/2024	14:35

LB132508

WORKLIST(Hardcopy Internal Chain)

WorkList Name : COD-09192024 **WorkList ID :** 183639 **Department :** Wet-Chemistry **Date :** 09-19-2024 09:52:57

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P3848-03	PT-DEM-WP	Water	COD	Conc H2SO4 to pH < 2	CHEM02	QA Of	09/03/2024	SM5220 D
P4085-05	PURGE-WATER	Water	COD	Conc H2SO4 to pH < 2	PSEG03	H53	09/17/2024	SM5220 D

Date/Time 09.19.2024, 10:00
Raw Sample Received by: NF(WC)
Raw Sample Relinquished by: TD(CDC)

Date/Time 09.19.2024, 12:00
Raw Sample Received by: TD(CDC)
Raw Sample Relinquished by: NF(WC)

Reviewed By:lwona
On:12/2/2024 11:41:29 AM
Inst Id :SPECTROPHOTOME

Reviewed By:Iwona
On:9/20/2024 10:13:48 AM
Inst Id :Konelab 20
LB :LB132513

LB132513

Test results Aquakem 7.2AQ1 Page: 1

CHEMTECH CONSULTING GROUP INC
284 Sheffield Street, Mountainside, NJ 07092

Reviewed by : RM Instrument ID : Konelab

9/19/2024 16:31

Test: Phenolics-

Sample Id	Result	Dil. 1 +	Response	Errors
ICV1	1.029	0.0	0.118	
ICB1	0.004	0.0	0.007	
CCV1	1.021	0.0	0.117	
CCB1	0.003	0.0	0.006	
PB163449BL	0.001	0.0	0.006	
PB163449BS	1.025	0.0	0.117	
P3848-26	1.014	0.0	0.116	
P3940-01	0.023	0.0	0.009	
P3940-01DUP	0.021	0.0	0.009	
P3940-01MS	1.025	0.0	0.117	
P3940-01MSD	1.029	0.0	0.118	
CCV2	1.016	0.0	0.116	
CCB2	0.008	0.0	0.007	

N	13
Mean	0.555
SD	0.5256
CV%	94.64

Reviewed By:Iwona
On:9/20/2024 10:13:48 AM
Inst Id :Konelab 20
LB :LB132513

Aquakem v. 7.2AQ1
Results from time period:
Thu Sep 19 13:23:54 2024
Thu Sep 19 16:25:15 2024

Sample Id	Sam/Ctr/cA	Test short r	Test type	Result	Result unit	Result date and time	Stat
0.00PPM	A	Phenolics-	P	-0.0104	mg/l	9/19/2024 15:08:26	
0.05PPM	A	Phenolics-	P	0.0546	mg/l	9/19/2024 15:08:27	
0.1PPM	A	Phenolics-	P	0.1092	mg/l	9/19/2024 15:08:28	
0.25PPM	A	Phenolics-	P	0.2567	mg/l	9/19/2024 15:08:29	
0.50PPM	A	Phenolics-	P	0.4943	mg/l	9/19/2024 15:08:30	
1.0PPM	A	Phenolics-	P	0.9911	mg/l	9/19/2024 15:08:31	
2.0PPM	A	Phenolics-	P	2.0045	mg/l	9/19/2024 15:08:32	
ICV1	S	Phenolics-	P	1.0294	mg/l	9/19/2024 15:46:08	
ICB1	S	Phenolics-	P	0.0038	mg/l	9/19/2024 15:46:11	
CCV1	S	Phenolics-	P	1.0213	mg/l	9/19/2024 15:46:12	
CCB1	S	Phenolics-	P	0.0025	mg/l	9/19/2024 15:46:15	
PB163449BL	S	Phenolics-	P	0.0013	mg/l	9/19/2024 15:46:16	
PB163449BS	S	Phenolics-	P	1.0249	mg/l	9/19/2024 15:46:19	
P3848-26	S	Phenolics-	P	1.0144	mg/l	9/19/2024 15:56:19	
P3940-01	S	Phenolics-	P	0.0225	mg/l	9/19/2024 16:06:15	
P3940-01DUP	S	Phenolics-	P	0.0212	mg/l	9/19/2024 16:06:17	
P3940-01MS	S	Phenolics-	P	1.0247	mg/l	9/19/2024 16:06:18	
P3940-01MSD	S	Phenolics-	P	1.0288	mg/l	9/19/2024 16:06:20	
CCV2	S	Phenolics-	P	1.0161	mg/l	9/19/2024 16:10:11	
CCB2	S	Phenolics-	P	0.0083	mg/l	9/19/2024 16:25:13	

Reviewed By:Iwona
On:9/20/2024 10:13:48 AM
Inst Id :Konelab 20
LB :LB132513

Calibration results Aquakem 7.2AQ1 Page: 1

CHEMTECH CONSULTING GROUP INC
284 Sheffield Street, Mountainside, NJ 07092

Reviewed by : RM Instrument ID : Konelab

9/19/2024 15:09

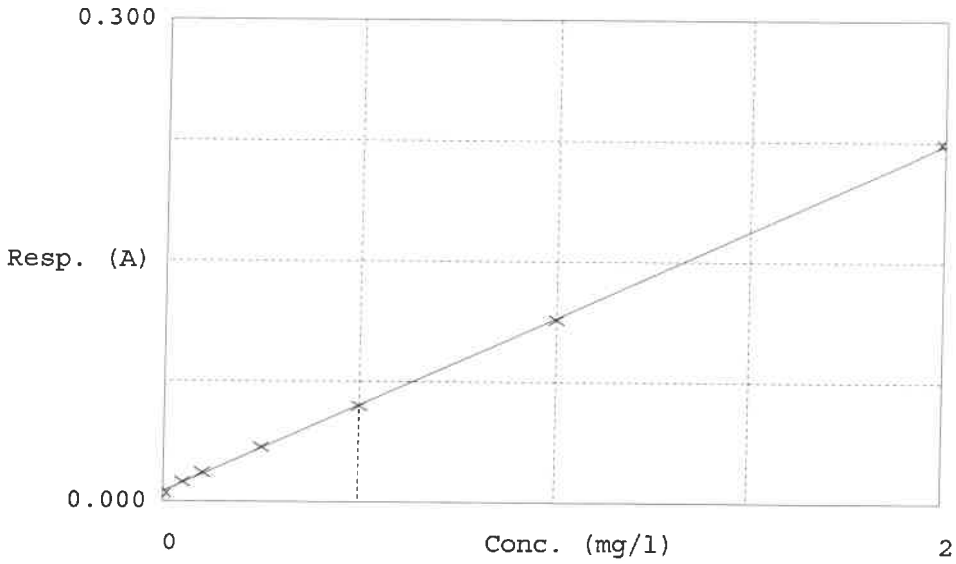
Test Phenolics-

Accepted 9/19/2024 15:09

Factor 9.215
Bias 0.006

Coeff. of det. 0.999876

Errors



	Calibrator	Response	Calc. con.	Conc.	Errors
1	0.00PPM	0.005	-0.0104	0.0000	
2	Phenol-2	0.012	0.0546	0.0500	9.2
3	Phenol-2	0.018	0.1092	0.1000	9.2
4	Phenol-2	0.034	0.2567	0.2500	2.7
5	Phenol-2	0.060	0.4943	0.5000	-1.1
6	Phenol-2	0.114	0.9911	1.0000	-0.9
7	Phenol-2	0.224	2.0045	2.0000	0.2

09/19/2024
RM

Reviewed By:Iwona
On:9/20/2024 10:13:58 AM
Inst Id :Konelab 20
LB :LB132515

LB132515

Test results | Aquakem 7.2AQ1 | Page: 1

CHEMTECH CONSULTING GROUP INC
284 Sheffield Street, Mountainside, NJ 07092

Reviewed by : RM | Instrument ID : Konelab

9/19/2024 17:03

Test: Phenolics-

Sample Id	Result	Dil. 1 +	Response	Errors
ICV1	1.033	0.0	0.118	
ICB1	0.004	0.0	0.007	
CCV1	1.021	0.0	0.117	
CCB1	0.002	0.0	0.006	
PB163450BL	0.003	0.0	0.007	
PB163450BS	1.032	0.0	0.118	
P3848-25	1.037	0.0	0.119	
CCV2	1.028	0.0	0.118	
CCB2	0.009	0.0	0.007	

N	9
Mean	0.574
SD	0.5406
CV%	94.13

Reviewed By:Iwona
On:9/20/2024 10:13:58 AM
Inst Id :Konelab 20
LB :LB132515

Aquakem v. 7.2AQ1
Results from time period:
Thu Sep 19 16:55:54 2024
Thu Sep 19 17:01:49 2024

Sample Id	Sam/Ctr/cA	Test short r	Test type	Result	Result unit	Result date and time	Stat
0.00PPM	A	Phenolics-	P	-0.0104	mg/l	9/19/2024 15:08:26	
0.05PPM	A	Phenolics-	P	0.0546	mg/l	9/19/2024 15:08:27	
0.1PPM	A	Phenolics-	P	0.1092	mg/l	9/19/2024 15:08:28	
0.25PPM	A	Phenolics-	P	0.2567	mg/l	9/19/2024 15:08:29	
0.50PPM	A	Phenolics-	P	0.4943	mg/l	9/19/2024 15:08:30	
1.0PPM	A	Phenolics-	P	0.9911	mg/l	9/19/2024 15:08:31	
2.0PPM	A	Phenolics-	P	2.0045	mg/l	9/19/2024 15:08:32	
ICV1	S	Phenolics-	P	1.0332	mg/l	9/19/2024 16:55:54	
ICB1	S	Phenolics-	P	0.0038	mg/l	9/19/2024 16:55:57	
CCV1	S	Phenolics-	P	1.0212	mg/l	9/19/2024 16:55:58	
CCB1	S	Phenolics-	P	0.0022	mg/l	9/19/2024 16:56:01	
PB163450BL	S	Phenolics-	P	0.0033	mg/l	9/19/2024 16:56:03	
PB163450BS	S	Phenolics-	P	1.0318	mg/l	9/19/2024 16:56:04	
P3848-25	S	Phenolics-	P	1.037	mg/l	9/19/2024 17:01:45	
CCV2	S	Phenolics-	P	1.028	mg/l	9/19/2024 17:01:47	
CCB2	S	Phenolics-	P	0.0087	mg/l	9/19/2024 17:01:49	

Reviewed By:Iwona
On:9/20/2024 10:13:58 AM
Inst Id :Konelab 20
LB :LB132515

Calibration results Aquakem 7.2AQ1 Page: 1

CHEMTECH CONSULTING GROUP INC
284 Sheffield Street, Mountainside, NJ 07092

Reviewed by : RM Instrument ID : Konelab

9/19/2024 15:09

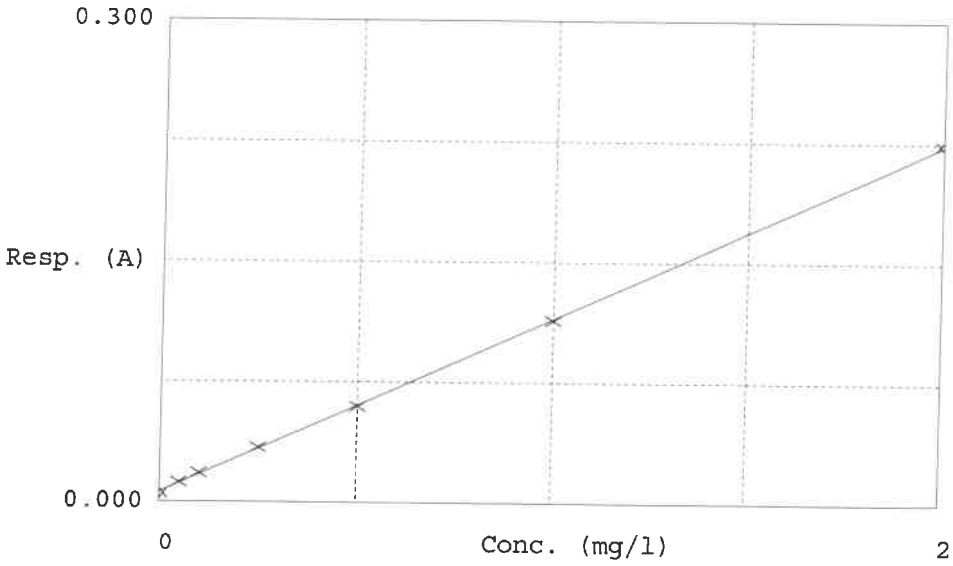
Test Phenolics-

Accepted 9/19/2024 15:09

Factor 9.215
Bias 0.006

Coeff. of det. 0.999876

Errors



	Calibrator	Response	Calc. con.	Conc.	Errors
1	0.00PPM	0.005	-0.0104	0.0000	-
2	Phenol-2	0.012	0.0546	0.0500	9.2
3	Phenol-2	0.018	0.1092	0.1000	9.2
4	Phenol-2	0.034	0.2567	0.2500	2.7
5	Phenol-2	0.060	0.4943	0.5000	-1.1
6	Phenol-2	0.114	0.9911	1.0000	-0.9
7	Phenol-2	0.224	2.0045	2.0000	0.2

09/19/2024
RM

Reviewed By:Iwona
On:10/2/2024 11:21:05 AM
Inst Id :WC TURBIDIMETER-1

Alliance TECHNICAL GROUP

Analytical Summary Report

Analysis Method: SM 4500-SO4E

Parameter: Sulfate

Run Number: ~~LB132528~~

ANALYST: Niha

SUPERVISOR REVIEW BY: Iwona

Reagent/Standard	Lot/Log #
sulfate CCV 20ppm	WP109815
sulfate ICV 20ppm	WP109816
Sulfate Buffer solution A	WP108958
Sulfate Calibration std, 15ppm	WP109809
Sulfate Calibration std, 25ppm	WP109811
Sulfate Calibration std, 0ppm	WP109806
Sulfate Calibration std, 10ppm	WP109808
Sulfate Calibration std, 20ppm	WP109810
Sulfate Calibration std, 30ppm	WP109812
Sulfate Calibration std, 40ppm	WP109814
Sulfate Calibration std, 5ppm	WP109807
Sulfate Calibration std, 35ppm	WP109813
Sulfate LCS std, 20ppm	WP109817

Intercept: -4.9867 **Slope:** 3.4114 **Regression:** 0.996472

Seq	Lab ID	True Val (mg/l)	DF	Matrix	Initial Reading	Final Reading	Difference	Result (mg/l)	%D	AnalDate	Anal Time
1	CAL1	0	1	Water	0.192	0.266	0.074	1.483		09/20/2024	09:30
2	CAL2	5	1	Water	0.193	11.600	11.407	4.806	-3.9	09/20/2024	09:33
3	CAL3	10	1	Water	0.195	29.400	29.205	10.023	0.2	09/20/2024	09:36
4	CAL4	15	1	Water	0.197	45.800	45.603	14.83	-1.1	09/20/2024	09:39
5	CAL5	20	1	Water	0.200	60.300	60.100	19.079	-4.6	09/20/2024	09:42
6	CAL6	25	1	Water	0.201	74.200	73.999	23.153	-7.4	09/20/2024	09:45
7	CAL7	30	1	Water	0.202	94.400	94.198	29.074	-3.1	09/20/2024	09:48
8	CAL8	35	1	Water	0.205	119.000	118.795	36.285	3.7	09/20/2024	09:51
9	CAL9	40	1	Water	0.206	136.000	135.794	41.268	3.2	09/20/2024	09:54

CHEMTECH

Analytical Summary Report

Analysis Method: SM 4500-SO4E

ANALYST: Niha

Parameter: Sulfate

SUPERVISOR REVIEW BY: Iwona

Run Number: LB132528

Seq	Lab ID	Initial Weight	Final Vol	True Value (mg/L)	DF	MATRIX	Initial Reading	Final Reading	Difference	Result (mg/L)	AnalDate	Anal Time
1	ICV			20	1	Water	0.206	60.900	60.694	19.253	09/20/2024	09:57
2	ICB				1	Water	0.207	0.277	0.070	1.482	09/20/2024	10:00
3	CCV1			20	1	Water	0.210	67.500	67.290	21.187	09/20/2024	10:03
4	CCB1				1	Water	0.208	0.269	0.061	1.480	09/20/2024	10:07
5	LB132528BL	50	50		1	Water	0.208	0.257	0.049	1.476	09/20/2024	10:10
6	LB132528BS	50	50	20	1	Water	0.212	61.300	61.088	19.369	09/20/2024	10:13
7	P3848-05	50	50		1	Water	0.422	369.000	368.578	109.505	09/20/2024	10:16
8	P3848-05				5	Water	0.268	68.600	68.332	21.492	09/20/2024	10:20
9	CCV2			20	1	Water	0.218	67.200	66.982	21.097	09/20/2024	10:23
10	CCB2				1	Water	0.219	0.284	0.065	1.481	09/20/2024	10:27

LB132528

WORKLIST(Hardcopy Internal Chain)

WorkList Name : SULFATE PT- 09192024 **WorkList ID :** 183638 **Department :** Wet-Chemistry **Date :** 09-19-2024 09:51:55

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P3848-05	PT-MIN1-WP	Water	Sulfate	Cool 4 deg C	CHEM02	QA Of	09/03/2024	SM 4500-SO4

Date/Time 09·20·2024, 09:00
Raw Sample Received by: NP(WC)
Raw Sample Relinquished by: SJ (QAO)

Date/Time NA
Raw Sample Received by: u
Raw Sample Relinquished by: u

Reviewed By:iwona
On:10/2/2024 11:21:05 AM
Inst Id :WC
TURBIDIMETER-1

Reviewed By:Iwona
On:10/2/2024 11:22:27 AM
Inst Id :WC TURBIDIMETER-1

Alliance TECHNICAL GROUP

Analytical Summary Report

Analysis Method: 9038

Parameter: Sulfate

Run Number: ~~LB132529~~

ANALYST: Niha

SUPERVISOR REVIEW BY: Iwona

Reagent/Standard	Lot/Log #
sulfate CCV 20ppm	WP109815
sulfate ICV 20ppm	WP109816
conditioning reagent	WP108893
Sulfate LCS std, 20ppm	WP109817
Sulfate Calibration std, 15ppm	WP109809
Sulfate Calibration std, 25ppm	WP109811
Sulfate Calibration std, 0ppm	WP109806
Sulfate Calibration std, 10ppm	WP109808
Sulfate Calibration std, 20ppm	WP109810
Sulfate Calibration std, 30ppm	WP109812
Sulfate Calibration std, 40ppm	WP109814
Sulfate Calibration std, 5ppm	WP109807
Sulfate Calibration std, 35ppm	WP109813

Intercept: -4.8364 **Slope:** 3.4214 **Regression:** 0.996302

Seq	Lab ID	True Val (mg/l)	DF	Matrix	Initial Reading	Final Reading	Difference	Result (mg/l)	%D	AnalDate	Anal Time
1	CAL1	0	1	Water	0.185	0.260	0.075	1.435		09/20/2024	11:30
2	CAL2	5	1	Water	0.186	11.900	11.714	4.837	-3.3	09/20/2024	11:33
3	CAL3	10	1	Water	0.188	30.400	30.212	10.244	2.4	09/20/2024	11:36
4	CAL4	15	1	Water	0.189	46.200	46.011	14.862	-0.9	09/20/2024	11:39
5	CAL5	20	1	Water	0.193	58.700	58.507	18.514	-7.4	09/20/2024	11:42
6	CAL6	25	1	Water	0.195	74.900	74.705	23.248	-7	09/20/2024	11:45
7	CAL7	30	1	Water	0.198	95.700	95.502	29.327	-2.2	09/20/2024	13:39
8	CAL8	35	1	Water	0.200	120.000	119.800	36.428	4.1	09/20/2024	11:51
9	CAL9	40	1	Water	0.204	136.000	135.796	41.104	2.8	09/20/2024	11:54

Analytical Summary Report

Reviewed By:Iwona
On:10/2/2024 11:22:27 AM
Inst Id :WC TURBIDIMETER-1

Analysis Method: 9038
ANALYST: Niha
Parameter: Sulfate
SUPERVISOR REVIEW BY: Iwona
Run Number: LB132529

Seq	Lab ID	Initial Weight	Final Vol	True Value (mg/L)	DF	MATRIX	Initial Reading	Final Reading	Difference	Result (mg/L)	AnalDate	Anal Time
1	ICV			20	1	Water	0.204	61.500	61.296	19.329	09/20/2024	11:57
2	ICB				1	Water	0.206	0.270	0.064	1.432	09/20/2024	12:00
3	CCV1			20	1	Water	0.208	68.500	68.292	21.374	09/20/2024	12:03
4	CCB1				1	Water	0.207	0.270	0.063	1.432	09/20/2024	12:06
5	LB132529BL	50	50		1	Water	0.210	0.250	0.040	1.425	09/20/2024	12:09
6	LB132529BS	50	50	20	1	Water	0.210	60.000	59.790	18.889	09/20/2024	12:12
7	P3848-06	50	50		1	Water	0.455	365.000	364.545	107.962	09/20/2024	12:15
8	P3848-06				5	Water	0.217	66.300	66.083	20.728	09/20/2024	12:18
9	CCV2			20	1	Water	0.215	68.200	67.985	21.284	09/20/2024	12:21
10	CCB2				1	Water	0.218	0.260	0.042	1.426	09/20/2024	12:24

LB132529

WORKLIST(Hardcopy Internal Chain)

WorkList Name : SULFATE PT-09192024 **WorkList ID :** 183637 **Department :** Wet-Chemistry **Date :** 09-19-2024 09:51:45

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P3848-06	PT-MIN1-WP	Water	Sulfate	Cool 4 deg C	CHEM02	QA Of	09/03/2024	9038

Date/Time 09.20.2024, 09:00

Raw Sample Received by: NF (WC)

Raw Sample Relinquished by: SJ (QAO)

Date/Time NA

Raw Sample Received by:

Raw Sample Relinquished by:

Reviewed By:lwona
On:10/2/2024 11:22:27 AM
Inst Id :WC
TURBIDIMETER-1

Reviewed By:Iwona
On:9/23/2024 11:56:30 AM
Inst Id :SPECTROPHOTOME

Analytical Summary Report

Analysis Method: SM4500-P E

Parameter: Phosphorus-Ortho

Run Number: LB132534

ANALYST: Niha

SUPERVISOR REVIEW BY: Iwona

Reagent/Standard	Lot/Log #
calibration std. phosphate 1 ppm	WP109823
calibration std. phosphate 0.5 ppm	WP109822
calibration std. phosphate 0.3 ppm	WP109820
calibration std. phosphate 0.1 ppm	WP109821
calibration std. phosphate 0.05 ppm	WP109819
calibration std. 0 ppm	WP109818
phosphate CCV std.	WP109825
5N sulfuric acid	WP107791
Combined reagent	WP109827
Phenolphthalein indicator	WP108727
Sodium hydroxide, 1N	WP108662
Phosphate ICV-LCS Std	WP109824

Intercept: -0.0009 **Slope:** 0.6555 **Regression:** 0.999924

Seq	Lab ID	True Value (mg/L)	DF	Initial Volume (mL)	Final Volume (mL)	Absorbance Reading at 880nm	Result (mg/L)	%D	AnalDate	AnalTime
1	CAL1	0.00	1	50	50	0.000	0.001		09/20/2024	15:20
2	CAL2	0.05	1	50	50	0.032	0.05	0	09/20/2024	15:20
3	CAL3	0.10	1	50	50	0.068	0.105	5	09/20/2024	15:21
4	CAL4	0.30	1	50	50	0.190	0.291	-3	09/20/2024	15:21
5	CAL5	0.50	1	50	50	0.327	0.5	0	09/20/2024	15:22
6	CAL6	1.00	1	50	50	0.656	1.002	0.2	09/20/2024	15:22

Reviewed By:Iwona
On:9/23/2024 11:56:30 AM
Inst Id :SPECTROPHOTOME

CHEMTECH

Analytical Summary Report

Analysis Method: SM4500-P E
ANALYST: Niha
Parameter: Phosphorus-Ortho
SUPERVISOR REVIEW BY: Iwona
Run Number: LB132534

Seq	Lab ID	True Value (mg/l)	DF	Initial Volume (mL)	Final Volume (mL)	Absorbance Reading at 880nm	Result (mg/L)	AnalDate	AnalTime
1	ICV	0.50	1	50	50	0.325	0.497	09/20/2024	15:23
2	ICB		1	50	50	0.001	0.003	09/20/2024	15:23
3	CCV1	0.5	1	50	50	0.328	0.502	09/20/2024	15:24
4	CCB1		1	50	50	0.000	0.001	09/20/2024	15:24
5	RL Check	0.01	1	50	50	0.031	0.049	09/20/2024	15:25
6	LB132534BL		1	50	50	0.001	0.003	09/20/2024	15:25
7	LB132534BS	0.5	1	50	50	0.324	0.496	09/20/2024	15:26
8	P3848-12		1	50	50	1.508	2.302	09/20/2024	15:26
9	P4147-01		1	50	50	0.030	0.047	09/20/2024	15:27
10	P4147-01DUP		1	50	50	0.029	0.046	09/20/2024	15:27
11	P4147-01MS	0.5	1	50	50	0.332	0.508	09/20/2024	15:28
12	P4147-01MSD	0.5	1	50	50	0.334	0.511	09/20/2024	15:28
13	P3848-12		10	50	50	0.333	0.509	09/20/2024	15:29
14	CCV2	0.5	1	50	50	0.325	0.497	09/20/2024	15:29
15	CCB2		1	50	50	0.001	0.003	09/20/2024	15:30

LB1325 34

WORKLIST(Hardcopy Internal Chain)

WorkList Name : ORTHO-P-09202024 **WorkList ID :** 183700 **Department :** Wet-Chemistry **Date :** 09-20-2024 13:04:15

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P3848-12	PT-NUT1-WP	Water	Phosphorus-Ortho	Cool 4 deg C	CHEM02	QA Of	09/03/2024	SM4500-P E
P4147-01	EFFLUENT	Water	Phosphorus-Ortho	Cool 4 deg C	HOLL01	J11	09/20/2024	SM4500-P E

Date/Time 09.20.2024, 14:50

Raw Sample Received by: NF(WC)

Raw Sample Relinquished by: [signature]

Date/Time 09.20.2024, 15:45

Raw Sample Received by: [signature]

Raw Sample Relinquished by: NF(WC)

Reviewed By:iwona
On:9/23/2024 11:56:30 AM
Inst Id :SPECTROPHOTOME

Reviewed By:Iwona
On:9/23/2024 11:53:05 AM
Inst Id :WC PH METER-1

Analytical Summary Report

Analysis Method: 9040C
Parameter: pH
Run Number: LB132548

Analyst By : jignesh
Supervisor Review By : Iwona
Slope : 98.9
pH Meter ID : WC PH METER-1

Calibration Standards	Chemtech Log#
PH 4 BUFFER SOLUTION	W3107
BUFFER PH 7.00 GREEN 1PINT PK6	W3093
PH 10.01 BUFFER,COLOR CD 475ML	W3094
buffer solution pH 7 yellow	W3071
Buffer Solution, PH2 (500ml)	W3005
Buffer Solution, PH12 (500ml)	W3072

True Value of ICV = 7.00 Control Limits[+/- 0.1].

True Value of CCV1 = 2.00 Control Limits[+/- 0.1].

True Value of CCV2 = 12.00 Control Limits[+/- 0.1].

Seq	LabID	DF	Matrix	Weight (gm)	Volume (ml)	Temperature (°C)	Result (pH)	Anal Date	Anal Time
1	CAL1	1	Water	NA	NA	20.3	4.01	09/23/2024	11:10
2	CAL2	1	Water	NA	NA	20.2	7.00	09/23/2024	11:11
3	CAL3	1	Water	NA	NA	20.3	10.03	09/23/2024	11:12
4	ICV	1	Water	NA	NA	20.3	7.00	09/23/2024	11:15
5	CCV1	1	Water	NA	NA	20.2	2.01	09/23/2024	11:20
6	P3848-20	1	Water	NA	NA	20.2	5.37	09/23/2024	11:25
7	P4140-02	1	Water	NA	NA	24.6	7.40	09/23/2024	11:30
8	P4140-02DUP	1	Water	NA	NA	24.7	7.41	09/23/2024	11:31
9	CCV2	1	Water	NA	NA	20.3	12.02	09/23/2024	11:35

WORKLIST(Hardcopy Internal Chain)

JB 132548

WorkList Name : PH P4144 **WorkList ID :** 183727 **Department :** Wet-Chemistry **Date :** 09-23-2024 10:56:28

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P3848-20	PT-PH-WP	Water	pH	Cool 4 deg C	CHEM02	QA Of	09/03/2024	9040C
P4140-02	306-307	Water	pH	Cool 4 deg C	PSEG03	J31	09/20/2024	9040C

Date/Time 09/23/24 11:00

Raw Sample Received by: JB WC

Raw Sample Relinquished by: RM SM

Date/Time 09/23/24 13:00

Raw Sample Received by: RM SM

Raw Sample Relinquished by: JB WC

Reviewed By:Iwona
On:9/23/2024 11:53:05 AM
Inst Id :WC PH METER-1

Reviewed By:Iwona
On:9/23/2024 11:52:56 AM
Inst Id :WC PH METER-1

Analytical Summary Report

Analysis Method: SM 4500-H B
Analyst By : jignesh
Parameter: pH
Supervisor Review By : Iwona
Run Number: LB132549
Slope : 98.9
pH Meter ID : WC PH METER-1

Calibration Standards	Chemtech Log#
PH 4 BUFFER SOLUTION	W3107
BUFFER PH 7.00 GREEN 1PINT PK6	W3093
PH 10.01 BUFFER,COLOR CD 475ML	W3094
buffer solution pH 7 yellow	W3071
Buffer Solution, PH2 (500ml)	W3005
Buffer Solution, PH12 (500ml)	W3072

True Value of ICV = 7.00 Control Limits[+/- 0.1].

True Value of CCV1 = 2.00 Control Limits[+/- 0.1].

True Value of CCV2 = 12.00 Control Limits[+/- 0.1].

Seq	LabID	DF	Matrix	Weight (gm)	Volume (ml)	Temperature (°C)	Result (pH)	Anal Date	Anal Time
1	CAL1	1	Water	NA	NA	20.3	4.01	09/23/2024	11:10
2	CAL2	1	Water	NA	NA	20.2	7.00	09/23/2024	11:11
3	CAL3	1	Water	NA	NA	20.3	10.03	09/23/2024	11:12
4	ICV	1	Water	NA	NA	20.3	7.00	09/23/2024	11:15
5	CCV1	1	Water	NA	NA	20.2	2.01	09/23/2024	11:20
6	P3848-21	1	Water	NA	NA	20.2	5.37	09/23/2024	11:25
7	CCV2	1	Water	NA	NA	20.3	12.02	09/23/2024	11:35

WORKLIST(Hardcopy Internal Chain)

JB 132549

WorkList Name : PG P3148 **WorkList ID :** 183728 **Department :** Wet-Chemistry **Date :** 09-23-2024 10:57:25

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P3848-21	PT-PH-WP	Water	pH	Cool 4 deg C	CHEM02	QA Of	09/03/2024	SM 4500-H B

Date/Time 09/23/24 11:00

Raw Sample Received by: JD WC1

Raw Sample Relinquished by: SI (QAO)

Date/Time 09/23/24 13:40

Raw Sample Received by:

Raw Sample Relinquished by:

Reviewed By:lwona
On:9/23/2024 11:52:56 AM
Inst Id :WC PH METER-1

Reviewed By:Iwona
On:9/25/2024 9:38:47 AM
Inst Id :SPECTROPHOTOME

Analytical Summary Report

Analysis Method: ~~SM3500-Cr B~~

Parameter: ~~Hexavalent Chromium~~

Run Number: ~~LB132576~~

ANALYST: rubina

SUPERVISOR REVIEW BY: Iwona

pH Meter ID: WC pH Meter-1

Reagent/Standard	Lot/Log #
Calibration Std. hexchrome 0.1 ppm	WP109882
Calibration Std. hexchrome 0.05 ppm	WP109881
calibration std. hexchrome 0.01 ppm	WP109879
calibration std. hexchrome 0 ppm	WP109878
hexavalent chromium color reagent	WP109886
0.2N SULFURIC ACID	WP109325
Calibration Std Hexachrome 0.025 ppm	WP109880
Hexavalent Chromium ICV-LCS Std	WP109885
Calibration and CCV std HexChrome 0.5PPM	WP109883
Calibration std HexChrome 1.0PPM	WP109884

Intercept: 0.0003 **Slope:** 0.7816 **Regression:** 0.999995

Seq	Lab ID	True Value (mg/l)	DF	Initial Vol (ml)	Final Vol (ml)	pH HN03	pH H2SO4	Absorb.at 540nm		Absorbance Difference	Result (mg/L)	%D	Anal Date	Anal Time
								Backgrnd	Color					
1	CAL1	0	1	100	100		1.76	0.000	0.000	0.000	-0.00		09/24/2024	16:50
2	CAL2	0.01	1	100	100		1.88	0.000	0.010	0.010	0.012	20	09/24/2024	16:51
3	CAL3	0.025	1	100	100		1.85	0.000	0.019	0.019	0.023	-8	09/24/2024	16:52
4	CAL4	0.05	1	100	100		1.89	0.000	0.039	0.039	0.049	-2	09/24/2024	16:53
5	CAL5	0.1	1	100	100		1.88	0.000	0.078	0.078	0.099	-1	09/24/2024	16:54
6	CAL6	0.5	1	100	100		1.90	0.000	0.391	0.391	0.499	-0.2	09/24/2024	16:55
7	CAL7	1	1	100	100		1.86	0.000	0.782	0.782	1.000	0	09/24/2024	16:56

Reviewed By:Iwona
On:9/25/2024 9:38:47 AM
Inst Id :SPECTROPHOTOME

CHEMTECH

Analytical Summary Report

Analysis Method: SM3500-Cr B
ANALYST: rubina
Parameter: Hexavalent Chromium
SUPERVISOR REVIEW BY: Iwona
Run Number: LB132576
pH Meter ID: WC pH Meter-1

Seq	Lab ID	True Value	DF	Initial Vol (ml/gm)	Final Vol (ml)	pH HN03	pH H2SO4	Absorb.at540nm		Absorbance Difference	Intermediate Result (mg/L)	Anal Date	Anal Time
								Backgrnd	Color				
1	ICV	0.5	1	100	100		1.91	0.000	0.399	0.399	0.510	09/24/2024	16:57
2	ICB		1	100	100		1.78	0.000	0.000	0.000	0.000	09/24/2024	16:58
3	CCV1	0.5	1	100	100		1.96	0.000	0.390	0.390	0.499	09/24/2024	16:59
4	CCB1		1	100	100		1.75	0.000	0.000	0.000	0.000	09/24/2024	17:00
5	RL Check	0.01	1	100	100		1.90	0.000	0.009	0.009	0.011	09/24/2024	17:01
6	LB132576BL		1	100	100		1.79	0.000	0.000	0.000	0.000	09/24/2024	17:02
7	LB132576BS	0.5	1	100	100		1.93	0.000	0.392	0.392	0.501	09/24/2024	17:03
8	P3848-02		1	100	100		2.02	0.000	0.447	0.447	0.572	09/24/2024	17:04
9	P4165-07		1	100	100		2.10	0.000	0.000	0.000	0.000	09/24/2024	17:05
10	P4165-07DU		1	100	100		2.06	0.000	0.000	0.000	0.000	09/24/2024	17:06
11	P4165-07MS	1	2	100	100		2.12	0.000	0.390	0.390	0.499	09/24/2024	17:07
12	P4165-07MS	1	2	100	100		2.06	0.000	0.388	0.388	0.496	09/24/2024	17:08
13	CCV2	0.5	1	100	100		1.92	0.000	0.391	0.391	0.500	09/24/2024	17:09
14	CCB2		1	100	100		1.77	0.000	0.000	0.000	0.000	09/24/2024	17:10

WORKLIST(Hardcopy Internal Chain)

Lb132576

WorkList Name : HEX 9-24 **WorkList ID :** 183775 **Department :** Wet-Chemistry **Date :** 09-24-2024 13:59:10

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P3848-02	PT-CR6-WP	Water	Hexavalent Chromium	Cool 4 deg C	CHEM02	QA Of	09/03/2024	SM3500-Cr B
P4165-07	14B-(1-4)-COMP	Water	Hexavalent Chromium	Ammonium sulfate buffer	NEWY17	J41	09/24/2024	SM3500-Cr B

Date/Time 09/24/2024 15.40
Raw Sample Received by: RM (WC)
Raw Sample Relinquished by: [signature]

Date/Time 09/24/2024 16:30
Raw Sample Received by: [signature]
Raw Sample Relinquished by: RM (WC)

Reviewed By:Iwona
On:9/25/2024 9:38:47 AM
Inst Id :SPECTROPHOTOME

Reviewed By:Iwona
On:9/25/2024 2:39:19 PM
Inst Id :Konelab 20
LB :LB132583

LB132583

Test results | Aquakem 7.2AQ1 | Page:

CHEMTECH CONSULTING GROUP INC
284 Sheffield Street, Mountainside, NJ 07092

Reviewed by : NF | Instrument ID : Konelab

9/24/2024 15:57

Test: Total CN

Sample Id	Result	Dil. 1 +	Response	Errors
ICV1	98.356	0.0	0.078	
ICB1	0.618	0.0	0.002	
CCV1	242.011	0.0	0.190	
CCB1	0.674	0.0	0.002	
RL CHECK	5.008	0.0	0.005	
PB163632BL	0.467	0.0	0.002	
PB163632BS	97.955	0.0	0.078	
MIDPB163632	239.773	0.0	0.188	
P3848-22	278.057	0.0	0.218	
P3965-02	0.992	0.0	0.002	
P3965-02DUP	1.019	0.0	0.002	
P3965-02MS	35.902	0.0	0.029	
P3965-02MSD	36.157	0.0	0.030	
CCV2	249.180	0.0	0.195	
CCB2	1.048	0.0	0.002	

95% (90 -110) NF
09.24.2024

N	15
Mean	85.814
SD	109.1852
CV%	127.23

Reviewed By:Iwona
On:9/25/2024 2:39:19 PM
Inst Id :Konelab 20
LB :LB132583

Aquakem v. 7.2AQ1
Results from time period:
Tue Sep 24 13:48:54 2024
Tue Sep 24 15:55:29 2024

Sample Id	Sam/Ctr/c/	Test short r	Test type	Result	Result unit	Result date and time	Stat
0.0PPBCN	A	Total CN	P	0.1081	µg/l	9/24/2024 13:48:54	
5.0PPBCN	A	Total CN	P	4.8175	µg/l	9/24/2024 13:48:55	
10PPBCN	A	Total CN	P	9.933	µg/l	9/24/2024 13:48:56	
50PPBCN	A	Total CN	P	48.345	µg/l	9/24/2024 13:48:57	
100PPBCN	A	Total CN	P	101.9011	µg/l	9/24/2024 13:48:58	
250PPBCN	A	Total CN	P	250.2137	µg/l	9/24/2024 13:48:59	
500PPBCN	A	Total CN	P	499.6816	µg/l	9/24/2024 13:49:00	
ICV1	S	Total CN	P	98.3558	µg/l	9/24/2024 14:38:40	
ICB1	S	Total CN	P	0.6177	µg/l	9/24/2024 14:38:41	
CCV1	S	Total CN	P	242.0114	µg/l	9/24/2024 14:38:43	
CCB1	S	Total CN	P	0.674	µg/l	9/24/2024 14:38:45	
RL CHECK	S	Total CN	P	5.0079	µg/l	9/24/2024 14:38:48	
PB163632BL	S	Total CN	P	0.4668	µg/l	9/24/2024 14:38:49	
PB163632BS	S	Total CN	P	97.9549	µg/l	9/24/2024 14:46:15	
MIDPB163632	S	Total CN	P	239.7731	µg/l	9/24/2024 14:46:17	
P3848-22	S	Total CN	P	278.0569	µg/l	9/24/2024 15:09:03	
P3965-02	S	Total CN	P	0.992	µg/l	9/24/2024 15:52:42	
P3965-02DUP	S	Total CN	P	1.0191	µg/l	9/24/2024 15:52:43	
P3965-02MS	S	Total CN	P	35.9022	µg/l	9/24/2024 15:52:45	
P3965-02MSD	S	Total CN	P	36.1573	µg/l	9/24/2024 15:52:48	
CCV2	S	Total CN	P	249.1801	µg/l	9/24/2024 15:52:49	
CCB2	S	Total CN	P	1.0483	µg/l	9/24/2024 15:52:51	

Reviewed By:Iwona
On:9/25/2024 2:39:19 PM
Inst Id :Konelab 20
LB :LB132583

Calibration results Aquakem 7.2AQ1 Page: 1

CHEMTECH CONSULTING GROUP INC
284 Sheffield Street, Mountainside, NJ 07092

Reviewed by : NF Instrument ID : Konelab

9/24/2024 13:51

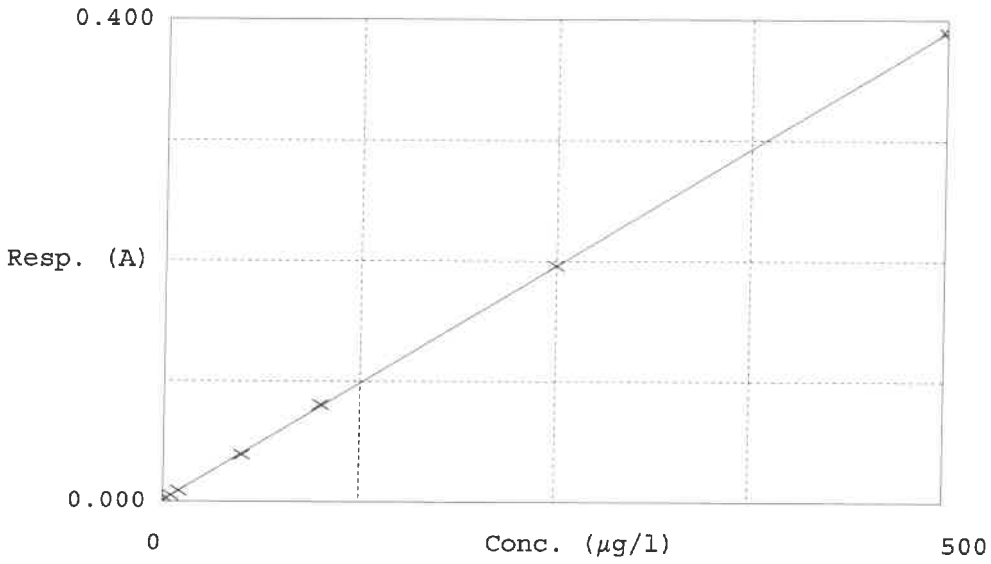
Test Total CN

Accepted 9/24/2024 13:51

Factor 1287
Bias 0.001

Coeff. of det. 0.999968

Errors



	Calibrator	Response	Calc. con.	Conc.	Errors (Rc)
1	0.0PPBCN	0.002	0.1081	0.0000	
2	5.0PPBCN	0.005	4.8175	5.0000	-3.7
3	10PPBCN	0.009	9.9330	10.0000	-0.7
4	50PPBCN	0.039	48.3450	50.0000	-3.3
5	100PPBCN	0.081	101.9011	100.0000	1.9
6	250PPBCN	0.196	250.2137	250.0000	0.1
7	500PPBCN	0.390	499.6816	500.0000	-0.1

NF
09.25.2024

Reviewed By:Iwona
On:9/26/2024 11:47:37 AM
Inst Id :Konelab 20
LB :LB132590

LB1

Test results Aquakem 7.2AQ1 Page:

CHEMTECH CONSULTING GROUP INC
284 Sheffield Street, Mountainside, NJ 07092

Reviewed by : NF Instrument ID : Konelab

9/25/2024 12:14

Test: Total CN

Sample Id	Result	Dil. 1 +	Response	Errors
ICV1	97.070	0.0	0.081	
ICB1	0.069	0.0	0.002	
CCV1	241.089	0.0	0.197	
CCB1	-0.106	0.0	0.002	
PB163628BL	-0.433	0.0	0.002	
PB163628BS	96.529	0.0	0.080	
P3848-23	280.699	0.0	0.229	
CCV2	242.558	0.0	0.198	
CCB2	0.200	0.0	0.002	

N	9
Mean	106.408
SD	118.6308
CV%	111.49

Reviewed By:Iwona
On:9/26/2024 11:47:37 AM
Inst Id :Konelab 20
LB :LB132590

Aquakem v. 7.2AQ1
Results from time period:
Wed Sep 25 10:02:40 2024
Wed Sep 25 11:55:09 2024

Sample Id	Sam/Ctr/cA	Test short r	Test type	Result	Result unit	Result date and time	Stat
0.0PPBCN	A	Total CN	P	0.1931	µg/l	9/25/2024 10:02:40	
5.0PPBCN	A	Total CN	P	4.1574	µg/l	9/25/2024 10:02:41	
10PPBCN	A	Total CN	P	10.7223	µg/l	9/25/2024 10:02:42	
50PPBCN	A	Total CN	P	47.6874	µg/l	9/25/2024 10:02:43	
100PPBCN	A	Total CN	P	102.0308	µg/l	9/25/2024 10:02:44	
250PPBCN	A	Total CN	P	250.78	µg/l	9/25/2024 10:02:45	
500PPBCN	A	Total CN	P	499.429	µg/l	9/25/2024 10:02:46	
ICV1	S	Total CN	P	97.0698	µg/l	9/25/2024 11:41:17	
ICB1	S	Total CN	P	0.0695	µg/l	9/25/2024 11:41:19	
CCV1	S	Total CN	P	241.0886	µg/l	9/25/2024 11:41:20	
CCB1	S	Total CN	P	-0.1062	µg/l	9/25/2024 11:41:22	
PB163628BL	S	Total CN	P	-0.4326	µg/l	9/25/2024 11:41:24	
PB163628BS	S	Total CN	P	96.5294	µg/l	9/25/2024 11:41:26	
P3848-23	S	Total CN	P	280.6987	µg/l	9/25/2024 11:48:55	
CCV2	S	Total CN	P	242.5582	µg/l	9/25/2024 11:55:07	
CCB2	S	Total CN	P	0.1997	µg/l	9/25/2024 11:55:08	

Reviewed By:Iwona
On:9/26/2024 11:47:37 AM
Inst Id :Konelab 20
LB :LB132590

Calibration results Aquakem 7.2AQ1 Page: 1

CHEMTECH CONSULTING GROUP INC
284 Sheffield Street, Mountainside, NJ 07092

Reviewed by : NF Instrument ID : Konelab

9/25/2024 10:04

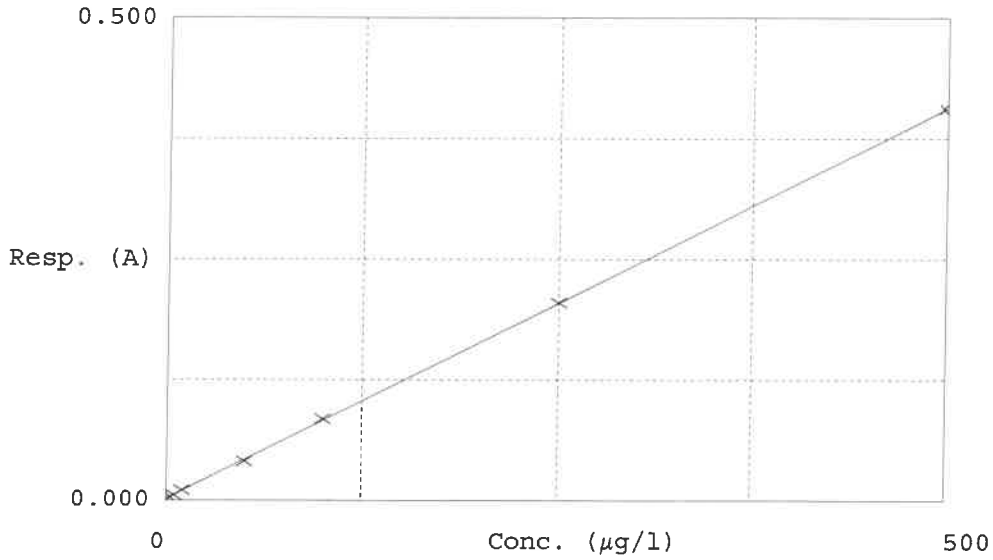
Test Total CN

Accepted 9/25/2024 10:04

Factor 1236
Bias 0.002

Coeff. of det. 0.999943

Errors



	Calibrator	Response	Calc. con.	Conc.	Errors (Re)
1	0.0PPBCN	0.002	0.1931	0.0000	
2	5.0PPBCN	0.005	4.1574	5.0000	-16.9
3	10PPBCN	0.011	10.7223	10.0000	7.2
4	50PPBCN	0.041	47.6874	50.0000	-4.6
5	100PPBCN	0.085	102.0308	100.0000	2.0
6	250PPBCN	0.205	250.7800	250.0000	0.3
7	500PPBCN	0.406	499.4290	500.0000	-0.1

NF
09.25.2024

Reviewed By:Iwona
On:9/26/2024 11:47:27 AM
Inst Id :Konelab 20
LB :LB132591

LB13

Test results | Aquakem 7.2AQ1 | Page:

CHEMTECH CONSULTING GROUP INC
284 Sheffield Street, Mountainside, NJ 07092

Reviewed by : NF | Instrument ID : Konelab

9/25/2024 12:57

Test: Total CN

Sample Id	Result	Dil. 1 +	Response	Errors
ICV1	97.068	0.0	0.081	
ICB1	-0.178	0.0	0.002	
CCV1	241.653	0.0	0.198	
CCB1	-0.460	0.0	0.002	
PB163640BL	-0.394	0.0	0.002	
PB163640BS	96.577	0.0	0.080	
P3848-24	277.687	0.0	0.227	
CCV2	240.670	0.0	0.197	
CCB2	-0.143	0.0	0.002	

N	9
Mean	105.831
SD	117.9915
CV%	111.49

Reviewed By:Iwona
On:9/26/2024 11:47:27 AM
Inst Id :Konelab 20
LB :LB132591

Aquakem v. 7.2AQ1
Results from time period:
Wed Sep 25 12:45:33 2024
Wed Sep 25 12:53:18 2024

Sample Id	Sam/Ctr/cA	Test short r	Test type	Result	Result unit	Result date and time	Stat
0.0PPBCN	A	Total CN	P	0.1931	µg/l	9/25/2024 10:02:40	
5.0PPBCN	A	Total CN	P	4.1574	µg/l	9/25/2024 10:02:41	
10PPBCN	A	Total CN	P	10.7223	µg/l	9/25/2024 10:02:42	
50PPBCN	A	Total CN	P	47.6874	µg/l	9/25/2024 10:02:43	
100PPBCN	A	Total CN	P	102.0308	µg/l	9/25/2024 10:02:44	
250PPBCN	A	Total CN	P	250.78	µg/l	9/25/2024 10:02:45	
500PPBCN	A	Total CN	P	499.429	µg/l	9/25/2024 10:02:46	
ICV1	S	Total CN	P	97.0676	µg/l	9/25/2024 12:45:34	
ICB1	S	Total CN	P	-0.1782	µg/l	9/25/2024 12:45:36	
CCV1	S	Total CN	P	241.6525	µg/l	9/25/2024 12:45:38	
CCB1	S	Total CN	P	-0.4601	µg/l	9/25/2024 12:45:39	
PB163640BL	S	Total CN	P	-0.3937	µg/l	9/25/2024 12:45:41	
PB163640BS	S	Total CN	P	96.5768	µg/l	9/25/2024 12:45:43	
P3848-24	S	Total CN	P	277.6873	µg/l	9/25/2024 12:53:14	
CCV2	S	Total CN	P	240.6696	µg/l	9/25/2024 12:53:15	
CCB2	S	Total CN	P	-0.1435	µg/l	9/25/2024 12:53:18	

Reviewed By:Iwona
On:9/26/2024 11:47:27 AM
Inst Id :Konelab 20
LB :LB132591

Calibration results Aquakem 7.2AQ1 Page: 1

CHEMTECH CONSULTING GROUP INC
284 Sheffield Street, Mountainside, NJ 07092

Reviewed by : NF Instrument ID : Konelab

9/25/2024 10:04

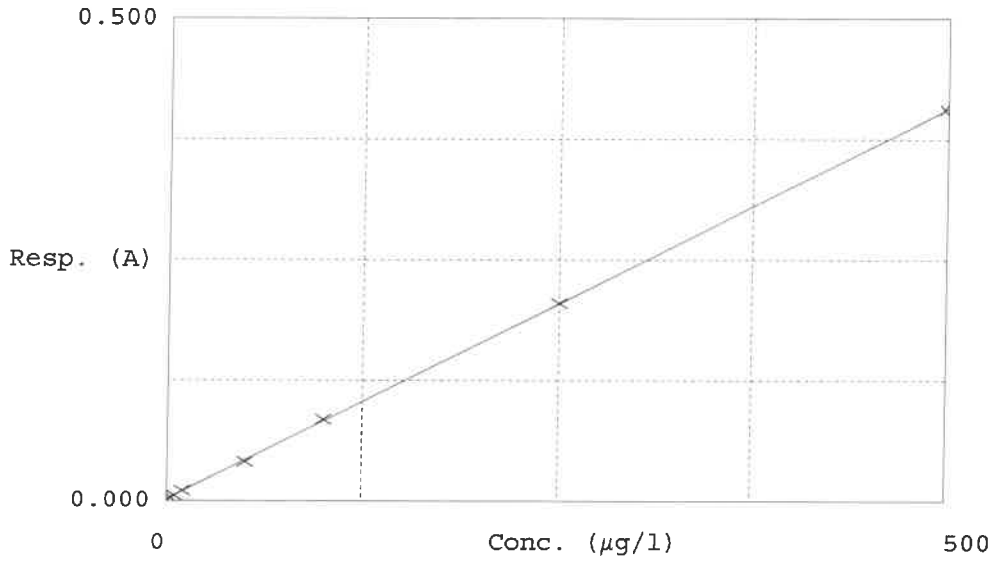
Test Total CN

Accepted 9/25/2024 10:04

Factor 1236
Bias 0.002

Coeff. of det. 0.999943

Errors



	Calibrator	Response	Calc. con.	Conc.	Errors (Re)
1	0.0PPBCN	0.002	0.1931	0.0000	
2	5.0PPBCN	0.005	4.1574	5.0000	-16.9
3	10PPBCN	0.011	10.7223	10.0000	7.2
4	50PPBCN	0.041	47.6874	50.0000	-4.6
5	100PPBCN	0.085	102.0308	100.0000	2.0
6	250PPBCN	0.205	250.7800	250.0000	0.3
7	500PPBCN	0.406	499.4290	500.0000	-0.1

NF
09.25.2024

Reviewed By:Iwona
On:10/1/2024 2:41:19 PM
Inst Id :Appolo-9000
LB :LB132606

Sample Results Report Print Date/Time: 2024/09/27 10:53:00

Sample ID	Result	Std. Dev.	RSD	Mode	ALT
CCV1	9.7726	0.1876	1.92	TOC	
CCB1	0.1535	0.0491	31.96	TOC	
LB132606BLW	0.1221	0.0335	27.41	TOC	
LB132606BSW.....	9.8254...	0.2232..	2.27...	TOC	..
P3848-03X5	14.7789	0.4011	2.71	TOC	
CCV2	9.5914	0.2684	2.80	TOC	
CCB2.....	0.1249...	0.0751..	60.10...	TOC	..
P4209-02	1.1775	0.1241	10.53	TOC	
P4194-01	16.8755	0.5844	3.46	TOC	
P4194-01MS.....	27.7042...	0.2220..	0.80...	TOC	..
P4194-01MSD	28.2703	0.4563	1.61	TOC	
P4180-02	3.8728	0.3540	9.14	TOC	
CCV3.....	10.6219...	0.0758..	0.71...	TOC	..
CCB3	0.1784	0.0339	19.02	TOC	

Reviewed By:Iwona
On:10/1/2024 2:41:19 PM
Inst Id :Appolo-9000
LB :LB132606

Sample Results Report Print Date/Time: 2024/09/27 10:53:00

Method ID	Sample Type	Vial	Timestamp	Message
TOC 0 - 20 ppmC	Sample	11	2024/09/26 09:55	
TOC 0 - 20 ppmC	Sample	12	2024/09/26 10:19	Low Sample Detected
TOC 0 - 20 ppmC	Sample	13	2024/09/26 10:43	Low Sample Detected
TOC 0 - 20 ppmC	...Sample	.. 14..	2024/09/26 11:10	..
TOC 0 - 20 ppmC	Sample	18	2024/09/26 13:56	
TOC 0 - 20 ppmC	Sample	11	2024/09/26 14:23	
TOC 0 - 20 ppmC	...Sample	.. 12..	2024/09/26 14:46	..Low Sample Detected
TOC 0 - 20 ppmC	Sample	22	2024/09/26 16:16	
TOC 0 - 20 ppmC	Sample	23	2024/09/26 16:46	
TOC 0 - 20 ppmC	...Sample	.. 24..	2024/09/26 17:16	..
TOC 0 - 20 ppmC	Sample	24	2024/09/26 17:47	
TOC 0 - 20 ppmC	Sample	21	2024/09/26 18:39	
TOC 0 - 20 ppmC	...Sample	.. 14..	2024/09/26 19:34	..
TOC 0 - 20 ppmC	Sample	12	2024/09/26 19:58	Low Sample Detected

Reviewed By:Iwona
On:10/1/2024 2:41:19 PM
Inst Id :Appolo-9000
LB :LB132606

Detailed Analysis Report Print Date/Time: 2024/09/27 11:16:30

Sample ID: CCV1 Mode: TOC
Method: TOC 0 - 20 ppmC Filename: 09260840
Cal. Curve: TOC WATER 0-20PPM Timestamp: 2024/09/26 09:55
Operator ID: NF IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	9.7061	4.8531	329495	-3.510	-3.310	171
2	9.9951	4.9976	339305	-3.468	-3.270	166
3	9.5541	4.7770	324333	-3.423	-3.224	173
4	9.8353	4.9177	333881	-3.405	-3.210	164

<<<Statistics>>> Mean: 9.7726 Std Dev: 0.1876 RSD: 1.92

Sample ID: CCB1 Mode: TOC
Method: TOC 0 - 20 ppmC Filename: 09260840
Cal. Curve: TOC WATER 0-20PPM Timestamp: 2024/09/26 10:19
Operator ID: NF IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	0.1163	0.0581	3948	-3.495	-3.444	120
2	0.1159	0.0579	3933	-3.495	-3.423	120
3	0.1623	0.0812	5510	-3.510	-3.428	120
4	0.2194	0.1097	7448	-3.472	-3.400	120

Last Message: Low Sample Detected
<<<Statistics>>> Mean: 0.1535 Std Dev: 0.0491 RSD: 31.96

Sample ID: LB132606BLW Mode: TOC
Method: TOC 0 - 20 ppmC Filename: 09260840
Cal. Curve: TOC WATER 0-20PPM Timestamp: 2024/09/26 10:43
Operator ID: NF IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	0.1687	0.0844	5728	-3.453	-3.418	120
2	0.1069	0.0535	3629	-3.450	-3.400	120
3	0.0911	0.0455	3093	-3.443	-3.404	120
4	0.1219	0.0610	4138	-3.443	-3.427	120

Last Message: Low Sample Detected
<<<Statistics>>> Mean: 0.1221 Std Dev: 0.0335 RSD: 27.41

Sample ID: LB132606BSW Mode: TOC
Method: TOC 0 - 20 ppmC Filename: 09260840
Cal. Curve: TOC WATER 0-20PPM Timestamp: 2024/09/26 11:10
Operator ID: NF IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	9.9191	4.9596	336726	-3.421	-3.226	174
2	9.6482	4.8241	327530	-3.353	-3.153	171
3	9.6373	4.8186	327157	-3.336	-3.138	168
4	10.0972	5.0486	342771	-3.360	-3.162	167

<<<Statistics>>> Mean: 9.8254 Std Dev: 0.2232 RSD: 2.27

Reviewed By:Iwona
On:10/1/2024 2:41:19 PM
Inst Id :Appolo-9000
LB :LB132606

Sample ID: P3848-03X5 Mode: TOC
Method: TOC 0 - 20 ppmC Filename: 09260840
Cal. Curve: TOC WATER 0-20PPM Timestamp: 2024/09/26 13:56
Operator ID: NF IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	14.8808	7.4404	505159	-2.874	-2.675	217
2	15.2440	7.6220	517490	-2.841	-2.641	229
3	14.7136	7.3568	499485	-2.821	-2.625	230
4	14.2773	7.1387	484674	-2.818	-2.618	225

<<<Statistics>>> Mean: 14.7789 Std Dev: 0.4011 RSD: 2.71

Sample ID: CCV2 Mode: TOC
Method: TOC 0 - 20 ppmC Filename: 09260840
Cal. Curve: TOC WATER 0-20PPM Timestamp: 2024/09/26 14:23
Operator ID: NF IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	9.4086	4.7043	319397	-2.969	-2.770	174
2	9.3216	4.6608	316440	-2.891	-2.692	170
3	9.8787	4.9393	335352	-2.884	-2.684	174
4	9.7568	4.8784	331215	-2.810	-2.614	166

<<<Statistics>>> Mean: 9.5914 Std Dev: 0.2684 RSD: 2.80

Sample ID: CCB2 Mode: TOC
Method: TOC 0 - 20 ppmC Filename: 09260840
Cal. Curve: TOC WATER 0-20PPM Timestamp: 2024/09/26 14:46
Operator ID: NF IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	0.0152	0.0076	514	-2.854	-2.829	120
2	0.1766	0.0883	5997	-2.876	-2.807	120
3	0.1379	0.0690	4682	-2.857	-2.797	120
4	0.1700	0.0850	5770	-2.858	-2.781	120

Last Message: Low Sample Detected
<<<Statistics>>> Mean: 0.1249 Std Dev: 0.0751 RSD: 60.10

Sample ID: P4209-02 Mode: TOC
Method: TOC 0 - 20 ppmC Filename: 09261500
Cal. Curve: TOC WATER 0-20PPM Timestamp: 2024/09/26 16:16
Operator ID: NF IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	1.1566	0.5783	39265	-2.783	-2.586	164
2	1.1493	0.5746	39014	-2.779	-2.581	165
3	1.0543	0.5272	35792	-2.742	-2.547	164
4	1.3500	0.6750	45828	-2.784	-2.584	168

<<<Statistics>>> Mean: 1.1775 Std Dev: 0.1241 RSD: 10.53

Sample ID: P4194-01 Mode: TOC
Method: TOC 0 - 20 ppmC Filename: 09261500

Reviewed By:Iwona
On:10/1/2024 2:41:19 PM
Inst Id :Appolo-9000
LB :LB132606

Cal. Curve: TOC WATER 0-20PPM Timestamp: 2024/09/26 16:46
Operator ID: NF IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	16.9535	8.4767	575521	-2.503	-2.304	211
2	16.2231	8.1115	550727	-2.573	-2.374	202
3	17.6253	8.8126	598328	-2.582	-2.384	219
4	16.7000	8.3500	566918	-2.595	-2.396	227

<<<Statistics>>> Mean: 16.8755 Std Dev: 0.5844 RSD: 3.46

Sample ID: P4194-01MS Mode: TOC
Method: TOC 0 - 20 ppmC Filename: 09261500
Cal. Curve: TOC WATER 0-20PPM Timestamp: 2024/09/26 17:16
Operator ID: NF IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	28.0072	14.0036	950763	-2.526	-2.327	211
2	27.5832	13.7916	936369	-2.505	-2.308	213
3	27.5019	13.7509	933609	-2.510	-2.311	218
4	27.7246	13.8623	941169	-2.532	-2.334	232

<<<Statistics>>> Mean: 27.7042 Std Dev: 0.2220 RSD: 0.80

Sample ID: P4194-01MSD Mode: TOC
Method: TOC 0 - 20 ppmC File
name: 09261500
Cal. Curve: TOC WATER 0-20PPM Timestamp: 2024/09/26 17:47
Operator ID: NF IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	28.1423	14.0711	955349	-2.466	-2.267	227
2	27.7774	13.8887	942964	-2.472	-2.274	225
3	28.8745	14.4373	980207	-2.497	-2.300	225
4	28.2868	14.1434	960255	-2.501	-2.303	224

<<<Statistics>>> Mean: 28.2703 Std Dev: 0.4563 RSD: 1.61

Sample ID: P4180-02 Mode: TOC
Method: TOC 0 - 20 ppmC Filename: 09261500
Cal. Curve: TOC WATER 0-20PPM Timestamp: 2024/09/26 18:39
Operator ID: NF IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	4.3883	2.1942	148971	-2.631	-2.431	164
2	3.6972	1.8486	125508	-2.643	-2.446	158
3	3.5991	1.7995	122178	-2.654	-2.456	167
4	3.8064	1.9032	129217	-2.667	-2.468	178

<<<Statistics>>> Mean: 3.8728 Std Dev: 0.3540 RSD: 9.14

Sample ID: CCV3 Mode: TOC
Method: TOC 0 - 20 ppmC Filename: 09261500
Cal. Curve: TOC WATER 0-20PPM Timestamp: 2024/09/26 19:34
Operator ID: NF IZ Sample Type: Sample

Reviewed By:Iwona
On:10/1/2024 2:41:19 PM
Inst Id :Appolo-9000
LB :LB132606

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	10.5250	5.2625	357293	-2.610	-2.410	181
2	10.6653	5.3326	362056	-2.565	-2.365	176
3	10.6963	5.3481	363109	-2.557	-2.359	180
4	10.6011	5.3006	359878	-2.553	-2.354	178

<<<Statistics>>> Mean: 10.6219 Std Dev: 0.0758 RSD: 0.71

Sample ID: CCB3 Mode: TOC
Method: TOC 0 - 20 ppmC Filename: 09261500
Cal. Curve: TOC WATER 0-20PPM Timestamp: 2024/09/26 19:58
Operator ID: NF IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	0.1495	0.0747	5075	-2.580	-2.510	120
2	0.1666	0.0833	5655	-2.590	-2.542	120
3	0.2275	0.1138	7723	-2.610	-2.520	120
4	0.1700	0.0850	5771	-2.582	-2.518	120

Last Message: Low Sample Detected
<<<Statistics>>> Mean: 0.1784 Std Dev: 0.0339 RSD: 19.02

Reviewed By:Iwona
On:10/1/2024 2:41:19 PM
Inst Id :Appolo-9000
LB :LB132606

Calibration Report Print Date/Time: 2024/09/25 14:41:00

Cal. Curve ID: TOC WATER 0-20PPM
Created: 2024/09/25 14:40
Calibration Factor (m): 6.789e+04
Y Intercept (b): 11061
r-squared: 0.99944

Standard ID	Y Raw Data	X Expected ug C	Measured ug C	Message	Date & Time
0.0PPM	3350	0.000	-0.114	Low Sample De	2024/09/25 11:13
0.5PPM	25944	0.250	0.219		2024/09/25 12:02
1.0PPM	45348	0.500	0.505		2024/09/25 12:52
2.0PPM	78757	1.000	0.997		2024/09/25 13:18
5.0PPM	189582	2.500	2.629		2024/09/25 13:45
10.0PPM	356566	5.000	5.089		2024/09/25 14:12
20.0PPM	684846	10.000	9.924		2024/09/25 14:40

Reviewed By:Iwona
On:10/1/2024 2:41:19 PM
Inst Id :Appolo-9000
LB :LB132606

Detailed Analysis Report Print Date/Time: 2024/09/27 10:57:10

Sample ID: 0.0PPM Mode: TOC
Method: TOC 0 - 20 ppmC Filename: 09251050
Cal. Curve: TOC WATER 0-20PPM Timestamp: 2024/09/25 11:13
Operator ID: NF IZ Sample Type: TOC Standard

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1			3916	-2.644	-2.613	120
2			5339	-2.654	-2.615	120
3			1929	-2.655	-2.674	120
4			2215	-2.660	-2.636	120

Last Message: Low Sample Detected
<<<Statistics>>> Mean: 3350 Std Dev: 1590 RSD: 47.47

Sample ID: 0.5PPM Mode: TOC
Method: TOC 0 - 20 ppmC Filename: 09251050
Cal. Curve: TOC WATER 0-20PPM Timestamp: 2024/09/25 12:02
Operator ID: NF IZ Sample Type: TOC Standard

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1			25019	-2.849	-2.652	147
2			26723	-2.855	-2.656	150
3			25092	-2.861	-2.663	153
4			26944	-2.879	-2.682	148

<<<Statistics>>> Mean: 25944 Std Dev: 1031 RSD: 3.97

Sample ID: 1.0PPM Mode: TOC
Method: TOC 0 - 20 ppmC Filename: 09251050
Cal. Curve: TOC WATER 0-20PPM Timestamp: 2024/09/25 12:52
Operator ID: NF IZ Sample Type: TOC Standard

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1			44529	-2.979	-2.784	155
2			43245	-2.995	-2.795	152
3			47787	-3.003	-2.807	157
4			45829	-2.984	-2.785	153

<<<Statistics>>> Mean: 45348 Std Dev: 1939 RSD: 4.27

Sample ID: 2.0PPM Mode: TOC
Method: TOC 0 - 20 ppmC Filename: 09251050
Cal. Curve: TOC WATER 0-20PPM Timestamp: 2024/09/25 13:18
Operator ID: NF IZ Sample Type: TOC Standard

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1			77003	-3.022	-2.827	154
2			79901	-3.020	-2.821	158
3			79145	-2.986	-2.786	160
4			78978	-2.987	-2.787	156

<<<Statistics>>> Mean: 78757 Std Dev: 1236 RSD: 1.57

Reviewed By:Iwona
On:10/1/2024 2:41:19 PM
Inst Id :Appolo-9000
LB :LB132606

Sample ID: 5.0PPM Mode: TOC
Method: TOC 0 - 20 ppmC Filename: 09251050
Cal. Curve: TOC WATER 0-20PPM Timestamp: 2024/09/25 13:45
Operator ID: NF IZ Sample Type: TOC Standard

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1			198547	-3.011	-2.812	170
2			190541	-2.994	-2.797	163
3			187362	-2.998	-2.798	165
4			181877	-2.957	-2.758	165

<<<Statistics>>> Mean: 189582 Std Dev: 6966 RSD: 3.67

Sample ID: 10.0PPM Mode: TOC
Method: TOC 0 - 20 ppmC Filename: 09251050
Cal. Curve: TOC WATER 0-20PPM Timestamp: 2024/09/25 14:12
Operator ID: NF IZ Sample Type: TOC Standard

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1			353287	-3.003	-2.806	174
2			362185	-2.970	-2.770	171
3			357930	-2.931	-2.731	174
4			352861	-2.910	-2.711	169

<<<Statistics>>> Mean: 356566 Std Dev: 4394 RSD: 1.23

Sample ID: 20.0PPM Mode: TOC
Method: TOC 0 - 20 ppmC Filename: 09251050
Cal. Curve: TOC WATER 0-20PPM Timestamp: 2024/09/25 14:40
Operator ID: NF IZ Sample Type: TOC Standard

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1			665638	-2.929	-2.730	183
2			686130	-2.882	-2.683	191
3			690849	-2.884	-2.685	185
4			696765	-2.868	-2.670	184

<<<Statistics>>> Mean: 684846 Std Dev: 13524 RSD: 1.97

Sample ID: ICV1 Mode: TOC
Method: TOC 0 - 20 ppmC Filename: 09251050
Cal. Curve: TOC WATER 0-20PPM Timestamp: 2024/09/25 15:07
Operator ID: NF IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	10.0524	5.0262	341249	-2.955	-2.756	169
2	10.1120	5.0560	343275	-2.928	-2.729	169
3	10.1652	5.0826	345080	-2.920	-2.725	171
4	10.3110	5.1555	350027	-2.903	-2.706	169

<<<Statistics>>> Mean: 10.1602 Std Dev: 0.1106 RSD: 1.09

Sample ID: ICB1 Mode: TOC
Method: TOC 0 - 20 ppmC Filename: 09251050
Cal. Curve: TOC WATER 0-20PPM Timestamp: 2024/09/25 15:31
Operator ID: NF IZ Sample Type: Sample

Reviewed By:Iwona
On:10/1/2024 2:41:19 PM
Inst Id :Appolo-9000
LB :LB132606

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	0.1868	0.0934	6340	-3.005	-2.908	120
2	0.1290	0.0645	4379	-2.978	-2.916	120
3	0.2191	0.1096	7439	-2.995	-2.919	120
4	0.1390	0.0695	4718	-2.969	-2.868	120

Last Message: Low Sample Detected
<<<Statistics>>> Mean: 0.1685 Std Dev: 0.0421 RSD: 25.01

Sample ID: IC-20 Mode: TOC
Method: TOC 0 - 20 ppmC Filename: 09251050
Cal. Curve: TOC WATER 0-20PPM Timestamp: 2024/09/25 15:54
Operator ID: NF IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	0.1108	0.0554	3761	-2.957	-2.925	120
2	0.1349	0.0675	4580	-2.975	-2.943	120
3	0.2197	0.1099	7459	-2.964	-2.878	120
4	0.2121	0.1061	7202	-2.937	-2.906	120

Last Message: Low Sample Detected
<<<Statistics>>> Mean: 0.1694 Std Dev: 0.0547 RSD: 32.30

Sample ID: IC-R Mode: TOC
Method:
TOC 0 - 20 ppmC Filename: 09251050
Cal. Curve: TOC WATER 0-20PPM Timestamp: 2024/09/25 16:18
Operator ID: NF IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	0.1389	0.0694	4715	-2.914	-2.867	120
2	0.1870	0.0935	6348	-2.915	-2.867	120
3	0.2024	0.1012	6871	-2.908	-2.827	120
4	0.1329	0.0665	4512	-2.881	-2.840	120

Last Message: Low Sample Detected
<<<Statistics>>> Mean: 0.1653 Std Dev: 0.0346 RSD: 20.94

LB132606

WORKLIST(Hardcopy Internal Chain)

WorkList Name : TOC W PT -09262024 **WorkList ID :** 183912 **Department :** Wet-Chemistry **Date :** 09-26-2024 11:53:16

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P3848-04	PT-DEM-WP	Water	TOC	Conc H2SO4 to pH < 2	CHEM02	QA Of	09/03/2024	9060A

Date/Time 09.26.2024 , 12:00
Raw Sample Received by: NF(WC)
Raw Sample Relinquished by: SJ (QAO)

Date/Time
Raw Sample Received by:
Raw Sample Relinquished by:

Reviewed By:Iwona
On:10/1/2024 2:41:19 PM
Inst Id :Appolo-9000
LB :LB132606

LB132606

WORKLIST(Hardcopy Internal Chain)

WorkList Name : TOC W-09262024 **WorkList ID :** 183854 **Department :** Wet-Chemistry **Date :** 09-26-2024 14:28:25

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P4180-02	5602-75-001-NEUTRALIZATIOI	Water	TOC	Conc H2SO4 to pH < 2	SCIE01	J41	09/24/2024	9060A
P4194-01	MANHOLE-119-KEARNY	Water	TOC	Conc H2SO4 to pH < 2	PSEG03	J51	09/25/2024	9060A
P4209-02	DRUM-2	Water	TOC	Conc H2SO4 to pH < 2	PSEG03	J41	09/26/2024	9060A

Date/Time 09.26.2024, 15:00
Raw Sample Received by: NF(WC)
Raw Sample Relinquished by: J.C (SM)

Date/Time 09.26.2024, 17:0
Raw Sample Received by: J.C (SM)
Raw Sample Relinquished by: NF(WC)

Reviewed By:Iwona
On:10/1/2024 2:41:19 PM
Inst Id :Appolo-9000
LB:LB132606

Extraction and Analytical Summary Report

Analysis Method: 1664A
Test: Oil and Grease
Run Number: LB132610
Analysis Date: 09/26/2024
BalanceID: WC SC-6
OvenID: EXT OVEN-3

ANALYST: jignesh
REVIEWED BY: Iwona
Extraction Date: 09/26/2024
Extration IN Time: 08:15
Extration OUT Time: 08:35
Thermometer ID: EXT OVEN#3

Dish #	Lab ID	Client ID	Matrix	pH	Sample Vol (ml)	Final Volume (ml)	Empty Dish Weight (g)	Final Empty Dish Weight(g)	Silica Gel Weight(g)	Weight After Drying(g)	Final Weight After Drying(g)	Change Weight (g)	Result in ppm
1	LB132610BL	LB132610BL	WATER	1.3	1000	100	2.6871	2.6871	0	2.6872	2.6872	0.0001	0.1
2	LB132610BS	LB132610BS	WATER	1.3	1000	100	2.7041	2.7041	0	2.7208	2.7208	0.0167	16.7
3	P3848-17	PT-ORG1L-WP	WATER	1.3	880	100	3.0187	3.0187	0	3.0727	3.0727	0.0540	61.36
4	P4147-01	EFFLUENT	WATER	1.6	1000	100	3.0216	3.0216	0	3.0706	3.0706	0.0490	49
5	P4147-02	P4147-01MS	WATER	1.6	1000	100	2.8753	2.8753	0	2.9444	2.9444	0.0691	69.1
6	P4147-03	P4147-01MSD	WATER	1.6	1000	100	2.9933	2.9933	0	3.0620	3.0620	0.0687	68.7
7	P4180-10	5602-75-001-NEUTRALIZA	WATER	1.3	1000	100	3.0315	3.0315	0	3.0325	3.0325	0.0010	1
8	P4180-11	P4180-10MS	WATER	1.3	1000	100	3.0187	3.0187	0	3.0395	3.0395	0.0208	20.8
9	P4180-12	P4180-10MSD	WATER	1.3	1000	100	3.0254	3.0254	0	3.0460	3.0460	0.0206	20.6

CHEMTECH

QC Batch# LB132610 **Test:** Oil and Grease **Analysis Date:** 09/26/2024

Chemicals Used:

Chemical Name	Chemical Lot #
HEXANE	W3110
pH Paper 0-14	M6069
Sodium Sulfate	EP2540
1:1 HCL	WP108566
Silica Gel	NA
Sand	NA

Standards Used:

Standard Name	Amount Used	Standard Lot #
LCSW	2.5 ML	WP108567
LCSWD	NA	NA
MS/MSD	2.5 ML	WP108568

BALANCE CALIBRATION / OVEN Dessicator Data

Analytical Balance ID # : WC SC-6

Before Analysis

0.0020 gram Balance: 0.0019 **(0.0018-0.0022)**
1.0000 gram Balance: 1.0004 **(0.9950-1.0050)**
Bal Check Time: 08:20

In OVEN TEMP1 : 70 °C **Dessicator Time In1 :** 10:01
In Time1: 09:20
Out OVEN TEMP1: 70 °C **Dessicator Time Out1:** 10:37
Out Time1: 10:00

After Analysis

0.0020 gram Balance: 0.0021 **(0.0018-0.0022)**
1.0000 gram Balance: 1.0005 **(0.9950-1.0050)**
Bal Check Time: 13:01

In OVEN TEMP2 : 71 °C **Dessicator Time In2 :** 12:11
In Time2: 11:20
Out OVEN TEMP2: 71 °C **Dessicator Time Out2:** 13:00
Out Time2: 12:10

WORKLIST(Hardcopy Internal Chain)

LB 132610

WorkList Name : oil & grease 4198 **WorkList ID :** 183830 **Department :** Wet-Chemistry **Date :** 09-26-2024 08:04:10

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P3848-17	PT-ORG1L-WP	Water	Oil and Grease	Conc H2SO4 to pH < 2	CHEM02	QA Of	09/03/2024	1664A
P4147-01 E	EFFLUENT	Water	Oil and Grease	Conc H2SO4 to pH < 2	HOLL01	J11	09/20/2024	1664A
P4147-02	P4147-01MS	Water	Oil and Grease	Conc H2SO4 to pH < 2	HOLL01	J11	09/20/2024	1664A
P4147-03	P4147-01MSD	Water	Oil and Grease	Conc H2SO4 to pH < 2	HOLL01	J11	09/20/2024	1664A
P4180-10	5602-75-001-NEUTRALIZATIOI	Water	Oil and Grease	Conc H2SO4 to pH < 2	SCIE01	J41	09/24/2024	1664A
P4180-11	P4180-10MS	Water	Oil and Grease	Conc H2SO4 to pH < 2	SCIE01	J41	09/24/2024	1664A
P4180-12	P4180-10MSD	Water	Oil and Grease	Conc H2SO4 to pH < 2	SCIE01	J41	09/24/2024	1664A

Date/Time 09/26/24 08:10
Raw Sample Received by: [signature]
Raw Sample Relinquished by: [signature]

Date/Time 09/26/24 12:30
Raw Sample Received by: [signature]
Raw Sample Relinquished by: [signature]

Reviewed By:Iwona
On:10/1/2024 3:40:57 PM
Inst Id :WC SC-3
LB :LB132610

Extraction and Analytical Summary Report

Analysis Method: 1664A
Test: TPH
Run Number: LB132611
Analysis Date: 09/26/2024
BalanceID: WC SC-6
OvenID: EXT OVEN-3

ANALYST: jignesh
REVIEWED BY: Iwona
Extraction Date: 09/26/2024
Extration IN Time: 08:35
Extration OUT Time: 09:15
Thermometer ID: EXT OVEN#3

Dish #	Lab ID	Client ID	Matrix	pH	Sample Vol (ml)	Final Volume (ml)	Empty Dish Weight (g)	Final Empty Dish Weight(g)	Silica Gel Weight(g)	Weight After Drying(g)	Final Weight After Drying(g)	Change Weight (g)	Result in ppm
1	LB132611BL	LB132611BL	WATER	1.3	1000	100	2.8655	2.8655	3.01	2.8656	2.8656	0.0001	0.1
2	LB132611BS	LB132611BS	WATER	1.3	1000	100	2.9304	2.9304	3.02	2.9472	2.9472	0.0168	16.8
3	LB132611BSD	LB132611BSD	WATER	1.3	1000	100	3.1307	3.1307	3.03	3.1478	3.1478	0.0171	17.1
4	P3848-18	RR-TPH1L-WP	WATER	1.3	880	100	3.0459	3.0459	3.03	3.1602	3.1602	0.1143	129.89
5	P4188-01	GRAB	WATER	1.6	1000	100	3.0697	3.0697	3.05	3.1572	3.1572	0.0875	87.5
6	P4194-01	MANHOLE-119-KEARNY	WATER	1.6	1000	100	3.0763	3.0763	3.04	3.0793	3.0793	0.0030	3

CHEMTECH

QC Batch# LB132611 **Test:** TPH **Analysis Date:** 09/26/2024

Chemicals Used:

Chemical Name	Chemical Lot #
HEXANE	W3110
pH Paper 0-14	M6069
Sodium Sulfate	EP2540
1:1 HCL	WP108566
Silica Gel	W3079
Sand	NA

Standards Used:

Standard Name	Amount Used	Standard Lot #
LCSW	5.00 ML	WP108567
LCSWD	NA	NA
MS/MSD	5.00 ML	WP108568

BALANCE CALIBRATION / OVEN Dessicator Data

Analytical Balance ID # : WC SC-6

Before Analysis

0.0020 gram Balance: 0.0018 **(0.0018-0.0022)**
1.0000 gram Balance: 1.0004 **(0.9950-1.0050)**
Bal Check Time: 08:45

In OVEN TEMP1 : 70 °C **Dessicator Time In1 :** 10:20
In Time1: 09:40
Out OVEN TEMP1: 70 °C **Dessicator Time Out1:** 11:00
Out Time1: 09:41

After Analysis

0.0020 gram Balance: 0.0019 **(0.0018-0.0022)**
1.0000 gram Balance: 1.0005 **(0.9950-1.0050)**
Bal Check Time: 12:26

In OVEN TEMP2 : 71 °C **Dessicator Time In2 :** 11:46
In Time2: 11:30
Out OVEN TEMP2: 71 °C **Dessicator Time Out2:** 12:25
Out Time2: 11:45

WORKLIST(Hardcopy Internal Chain)

LB132611

WorkList Name : tph p4199 **WorkList ID :** 183831 **Department :** Wet-Chemistry **Date :** 09-26-2024 08:06:03

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P3848-18	RR-TPH1L-WP	Water	TPH	Conc H2SO4 to pH < 2	CHEM02	QA Of	09/03/2024	1664A
P4188-01	GRAB	Water	TPH	Conc H2SO4 to pH < 2	ARAM01	J11	09/25/2024	1664A
P4194-01 T	MANHOLE-119-KEARNY	Water	TPH	Conc H2SO4 to pH < 2	PSEG03	J51	09/25/2024	1664A

Date/Time 09/26/24 08:10

Raw Sample Received by: [illegible]

Raw Sample Relinquished by: CP SM

Date/Time 09/26/24 13:00

Raw Sample Received by: CP SM

Raw Sample Relinquished by: [illegible]

Reviewed By:lwona
On:9/26/2024 1:31:28 PM
Inst Id :WC SC-3
LB :LB132611

Reviewed By:Iwona
On:9/30/2024 11:53:08 AM
Inst Id :WC TURBIDIMETER-1

Analytical Summary Report

Analysis Method: SM2130 B
ANALYST: Niha
Parameter: Turbidity
SUPERVISOR REVIEW BY: Iwona
Run Number: LB132624

Reagent/Standard	Lot/Log #
Turbidity Calibration std, 0NTU	WP109925
Turbidity Calibration std, 20NTU	WP109927
Turbidity Calibration std, 1NTU	WP109929
Turbidity Calibration std, 5NTU	WP109928
Turbidity Calibration - CCV std, 10 NTU	WP109930
10 NTU Standard 500 ml	W3116

Intercept: -0.0156 **Slope:** 0.9363 **Regression:** 0.9999

Seq	Lab ID	True Value (NTU)	Dilution	Reading	Result (mg/l)	%D	Anal Date	Anal Time
1	CAL1	0	1	0.148	0.18		09/26/2024	10:24
2	CAL2	1	1	1.020	1.11	10.6	09/26/2024	10:28
3	CAL3	5	1	4.510	4.83	-3.3	09/26/2024	10:32
4	CAL4	10	1	9.390	10.05	0.4	09/26/2024	10:36
5	CAL5	20	1	18.400	19.67	-1.7	09/26/2024	10:40
6	CAL6	40	1	37.600	40.18	0.4	09/26/2024	10:44

Reviewed By:Iwona
On:9/30/2024 11:53:08 AM
Inst Id :WC TURBIDIMETER-1

CHEMTECH

Analytical Summary Report

Analysis Method: SM2130 B
Parameter: Turbidity
Run Number: LB132624

ANALYST: Niha
SUPERVISOR REVIEW BY: Iwona

Seq	Lab ID	True Value (NTU)	Dilution	Reading	Result (NTU)	AnalDate	Anal Time
1	ICV	10	1	8.910	9.533	09/26/2024	10:48
2	ICB		1	0.146	0.173	09/26/2024	10:52
3	CCV1	10	1	8.820	9.437	09/26/2024	10:56
4	CCB1		1	0.141	0.167	09/26/2024	11:00
5	LB132624BL		1	0.138	0.164	09/26/2024	11:04
6	P3848-33		1	24.100	25.756	09/26/2024	11:08
7	P4200-01		1	0.810	0.882	09/26/2024	11:24
8	P4200-01DUP		1	0.800	0.871	09/26/2024	11:28
9	P4200-02		1	0.600	0.657	09/26/2024	11:32
10	P4200-03		1	0.500	0.551	09/26/2024	11:36
11	P4200-04		1	1.720	1.854	09/26/2024	11:40
12	P4200-05		1	0.595	0.652	09/26/2024	11:44
13	P4200-06		1	0.568	0.623	09/26/2024	11:48
14	P4200-07		1	0.690	0.754	09/26/2024	11:52
15	CCV2	10	1	9.200	9.843	09/26/2024	11:56
16	CCB2		1	0.142	0.168	09/26/2024	12:00

LB132624

WORKLIST(Hardcopy Internal Chain)

WorkList Name : TURBIDITY-09262024 **WorkList ID :** 183852 **Department :** Wet-Chemistry **Date :** 09-26-2024 09:03:28

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P4200-01	B2-WARD-12-RM3016-SINK	Water	Turbidity	Cool 4 deg C	CLOU03	J41	09/25/2024	SM2130 B
P4200-02	B2-WARD-12-RM3010-SINK	Water	Turbidity	Cool 4 deg C	CLOU03	J41	09/25/2024	SM2130 B
P4200-03	B2-WARD-12-RM3011-RIGHT-S	Water	Turbidity	Cool 4 deg C	CLOU03	J41	09/25/2024	SM2130 B
P4200-04	B2-WARD-12-LEFT-DRINKING	Water	Turbidity	Cool 4 deg C	CLOU03	J41	09/25/2024	SM2130 B
P4200-05	B2-WARD-12-RM3019-EYEWA	Water	Turbidity	Cool 4 deg C	CLOU03	J41	09/25/2024	SM2130 B
P4200-06	B2-WARD-12-RM3040-SINK	Water	Turbidity	Cool 4 deg C	CLOU03	J41	09/25/2024	SM2130 B
P4200-07	B2-WARD-12-RM3035-SINK	Water	Turbidity	Cool 4 deg C	CLOU03	J41	09/25/2024	SM2130 B
P3848-33	PT-TURB-WP	Water	Turbidity	Cool 4 deg C	CHEM02	QA Of	09/03/2024	SM2130 B

Date/Time 09.26.2024, 09:10

Raw Sample Received by: NF(WC)

Raw Sample Relinquished by:

Date/Time 09.26.2024, 12:0

Raw Sample Received by:

Raw Sample Relinquished by: NF(WC)

Reviewed By:iwona
On:9/30/2024 11:53:08 AM
Inst Id :WC
TURBIDIMETER-1

Reviewed By:Iwona
On:10/1/2024 2:41:11 PM
Inst Id :Appolo-9000
LB :LB132641

Sample Results Report Print Date/Time: 2024/09/27 11:58:38

Sample ID	Result	Std. Dev.	RSD	Mode	ALT
CCV1	1.1756	0.0788	6.70	TOC	
CCB1	0.1535	0.0491	31.96	TOC	
LB132641BLW	0.1221	0.0335	27.41	TOC	
LB132641BSW.....	9.8254...	0.2232..	2.27...	TOC	..
P3848-03X5	14.7789	0.4011	2.71	TOC	
CCV2	9.5914	0.2684	2.80	TOC	
CCB2.....	0.1249...	0.0751..	60.10...	TOC	..

Reviewed By:Iwona
On:10/1/2024 2:41:11 PM
Inst Id :Appolo-9000
LB :LB132641

Sample Results Report Print Date/Time: 2024/09/27 11:58:38

Method ID	Sample Type	Vial	Timestamp	Message
TOC 0 - 20 ppmC	Sample	10	2024/09/26 09:28	
TOC 0 - 20 ppmC	Sample	12	2024/09/26 10:19	Low Sample Detected
TOC 0 - 20 ppmC	Sample	13	2024/09/26 10:43	Low Sample Detected
TOC 0 - 20 ppmC	Sample	14	2024/09/26 11:10	
TOC 0 - 20 ppmC	Sample	18	2024/09/26 13:56	
TOC 0 - 20 ppmC	Sample	11	2024/09/26 14:23	
TOC 0 - 20 ppmC	Sample	12	2024/09/26 14:46	Low Sample Detected

Reviewed By:Iwona
On:10/1/2024 2:41:11 PM
Inst Id :Appolo-9000
LB :LB132641

Detailed Analysis Report Print Date/Time: 2024/09/27 11:58:52

Sample ID: CCV1 Mode: TOC
Method: TOC 0 - 20 ppmC Filename: 09260840
Cal. Curve: TOC WATER 0-20PPM Timestamp: 2024/09/26 09:28
Operator ID: NF IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	1.1458	0.5729	38897	-3.632	-3.437	153
2	1.1136	0.5568	37803	-3.591	-3.395	156
3	1.2910	0.6455	43826	-3.581	-3.381	155
4	1.1519	0.5759	39103	-3.545	-3.346	153

<<<Statistics>>> Mean: 1.1756 Std Dev: 0.0788 RSD: 6.70

Sample ID: CCB1 Mode: TOC
Method: TOC 0 - 20 ppmC Filename: 09260840
Cal. Curve: TOC WATER 0-20PPM Timestamp: 2024/09/26 10:19
Operator ID: NF IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	0.1163	0.0581	3948	-3.495	-3.444	120
2	0.1159	0.0579	3933	-3.495	-3.423	120
3	0.1623	0.0812	5510	-3.510	-3.428	120
4	0.2194	0.1097	7448	-3.472	-3.400	120

Last Message: Low Sample Detected
<<<Statistics>>> Mean: 0.1535 Std Dev: 0.0491 RSD: 31.96

Sample ID: LB132641BLW Mode: TOC
Method: TOC 0 - 20 ppmC Filename: 09260840
Cal. Curve: TOC WATER 0-20PPM Timestamp: 2024/09/26 10:43
Operator ID: NF IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	0.1687	0.0844	5728	-3.453	-3.418	120
2	0.1069	0.0535	3629	-3.450	-3.400	120
3	0.0911	0.0455	3093	-3.443	-3.404	120
4	0.1219	0.0610	4138	-3.443	-3.427	120

Last Message: Low Sample Detected
<<<Statistics>>> Mean: 0.1221 Std Dev: 0.0335 RSD: 27.41

Sample ID: LB132641BSW Mode: TOC
Method: TOC 0 - 20 ppmC Filename: 09260840
Cal. Curve: TOC WATER 0-20PPM Timestamp: 2024/09/26 11:10
Operator ID: NF IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	9.9191	4.9596	336726	-3.421	-3.226	174
2	9.6482	4.8241	327530	-3.353	-3.153	171
3	9.6373	4.8186	327157	-3.336	-3.138	168
4	10.0972	5.0486	342771	-3.360	-3.162	167

<<<Statistics>>> Mean: 9.8254 Std Dev: 0.2232 RSD: 2.27

Reviewed By:Iwona
On:10/1/2024 2:41:11 PM
Inst Id :Appolo-9000
LB :LB132641

Sample ID: P3848-03X5 Mode: TOC
Method: TOC 0 - 20 ppmC Filename: 09260840
Cal. Curve: TOC WATER 0-20PPM Timestamp: 2024/09/26 13:56
Operator ID: NF IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	14.8808	7.4404	505159	-2.874	-2.675	217
2	15.2440	7.6220	517490	-2.841	-2.641	229
3	14.7136	7.3568	499485	-2.821	-2.625	230
4	14.2773	7.1387	484674	-2.818	-2.618	225

<<<Statistics>>> Mean: 14.7789 Std Dev: 0.4011 RSD: 2.71

Sample ID: CCV2 Mode: TOC
Method: TOC 0 - 20 ppmC Filename: 09260840
Cal. Curve: TOC WATER 0-20PPM Timestamp: 2024/09/26 14:23
Operator ID: NF IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	9.4086	4.7043	319397	-2.969	-2.770	174
2	9.3216	4.6608	316440	-2.891	-2.692	170
3	9.8787	4.9393	335352	-2.884	-2.684	174
4	9.7568	4.8784	331215	-2.810	-2.614	166

<<<Statistics>>> Mean: 9.5914 Std Dev: 0.2684 RSD: 2.80

Sample ID: CCB2 Mode: TOC
Method: TOC 0 - 20 ppmC Filename: 09260840
Cal. Curve: TOC WATER 0-20PPM Timestamp: 2024/09/26 14:46
Operator ID: NF IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	0.0152	0.0076	514	-2.854	-2.829	120
2	0.1766	0.0883	5997	-2.876	-2.807	120
3	0.1379	0.0690	4682	-2.857	-2.797	120
4	0.1700	0.0850	5770	-2.858	-2.781	120

Last Message: Low Sample Detected
<<<Statistics>>> Mean: 0.1249 Std Dev: 0.0751 RSD: 60.10

Reviewed By:Iwona
On:10/1/2024 2:41:11 PM
Inst Id :Appolo-9000
LB :LB132641

Calibration Report Print Date/Time: 2024/09/25 14:41:00

Cal. Curve ID: TOC WATER 0-20PPM
Created: 2024/09/25 14:40
Calibration Factor (m): 6.789e+04
Y Intercept (b): 11061
r-squared: 0.99944

Standard ID	Y Raw Data	X Expected ug C	Measured ug C	Message	Date & Time
0.0PPM	3350	0.000	-0.114	Low Sample De	2024/09/25 11:13
0.5PPM	25944	0.250	0.219		2024/09/25 12:02
1.0PPM	45348	0.500	0.505		2024/09/25 12:52
2.0PPM	78757	1.000	0.997		2024/09/25 13:18
5.0PPM	189582	2.500	2.629		2024/09/25 13:45
10.0PPM	356566	5.000	5.089		2024/09/25 14:12
20.0PPM	684846	10.000	9.924		2024/09/25 14:40

Reviewed By:Iwona
On:10/1/2024 2:41:11 PM
Inst Id :Appolo-9000
LB :LB132641

Detailed Analysis Report Print Date/Time: 2024/09/27 10:57:10

Sample ID: 0.0PPM Mode: TOC
Method: TOC 0 - 20 ppmC Filename: 09251050
Cal. Curve: TOC WATER 0-20PPM Timestamp: 2024/09/25 11:13
Operator ID: NF IZ Sample Type: TOC Standard

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1			3916	-2.644	-2.613	120
2			5339	-2.654	-2.615	120
3			1929	-2.655	-2.674	120
4			2215	-2.660	-2.636	120

Last Message: Low Sample Detected
<<<Statistics>>> Mean: 3350 Std Dev: 1590 RSD: 47.47

Sample ID: 0.5PPM Mode: TOC
Method: TOC 0 - 20 ppmC Filename: 09251050
Cal. Curve: TOC WATER 0-20PPM Timestamp: 2024/09/25 12:02
Operator ID: NF IZ Sample Type: TOC Standard

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1			25019	-2.849	-2.652	147
2			26723	-2.855	-2.656	150
3			25092	-2.861	-2.663	153
4			26944	-2.879	-2.682	148

<<<Statistics>>> Mean: 25944 Std Dev: 1031 RSD: 3.97

Sample ID: 1.0PPM Mode: TOC
Method: TOC 0 - 20 ppmC Filename: 09251050
Cal. Curve: TOC WATER 0-20PPM Timestamp: 2024/09/25 12:52
Operator ID: NF IZ Sample Type: TOC Standard

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1			44529	-2.979	-2.784	155
2			43245	-2.995	-2.795	152
3			47787	-3.003	-2.807	157
4			45829	-2.984	-2.785	153

<<<Statistics>>> Mean: 45348 Std Dev: 1939 RSD: 4.27

Sample ID: 2.0PPM Mode: TOC
Method: TOC 0 - 20 ppmC Filename: 09251050
Cal. Curve: TOC WATER 0-20PPM Timestamp: 2024/09/25 13:18
Operator ID: NF IZ Sample Type: TOC Standard

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1			77003	-3.022	-2.827	154
2			79901	-3.020	-2.821	158
3			79145	-2.986	-2.786	160
4			78978	-2.987	-2.787	156

<<<Statistics>>> Mean: 78757 Std Dev: 1236 RSD: 1.57

Reviewed By:Iwona
On:10/1/2024 2:41:11 PM
Inst Id :Appolo-9000
LB :LB132641

Sample ID: 5.0PPM Mode: TOC
Method: TOC 0 - 20 ppmC Filename: 09251050
Cal. Curve: TOC WATER 0-20PPM Timestamp: 2024/09/25 13:45
Operator ID: NF IZ Sample Type: TOC Standard

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1			198547	-3.011	-2.812	170
2			190541	-2.994	-2.797	163
3			187362	-2.998	-2.798	165
4			181877	-2.957	-2.758	165

<<<Statistics>>> Mean: 189582 Std Dev: 6966 RSD: 3.67

Sample ID: 10.0PPM Mode: TOC
Method: TOC 0 - 20 ppmC Filename: 09251050
Cal. Curve: TOC WATER 0-20PPM Timestamp: 2024/09/25 14:12
Operator ID: NF IZ Sample Type: TOC Standard

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1			353287	-3.003	-2.806	174
2			362185	-2.970	-2.770	171
3			357930	-2.931	-2.731	174
4			352861	-2.910	-2.711	169

<<<Statistics>>> Mean: 356566 Std Dev: 4394 RSD: 1.23

Sample ID: 20.0PPM Mode: TOC
Method: TOC 0 - 20 ppmC Filename: 09251050
Cal. Curve: TOC WATER 0-20PPM Timestamp: 2024/09/25 14:40
Operator ID: NF IZ Sample Type: TOC Standard

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1			665638	-2.929	-2.730	183
2			686130	-2.882	-2.683	191
3			690849	-2.884	-2.685	185
4			696765	-2.868	-2.670	184

<<<Statistics>>> Mean: 684846 Std Dev: 13524 RSD: 1.97

Sample ID: ICV1 Mode: TOC
Method: TOC 0 - 20 ppmC Filename: 09251050
Cal. Curve: TOC WATER 0-20PPM Timestamp: 2024/09/25 15:07
Operator ID: NF IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	10.0524	5.0262	341249	-2.955	-2.756	169
2	10.1120	5.0560	343275	-2.928	-2.729	169
3	10.1652	5.0826	345080	-2.920	-2.725	171
4	10.3110	5.1555	350027	-2.903	-2.706	169

<<<Statistics>>> Mean: 10.1602 Std Dev: 0.1106 RSD: 1.09

Sample ID: ICB1 Mode: TOC
Method: TOC 0 - 20 ppmC Filename: 09251050
Cal. Curve: TOC WATER 0-20PPM Timestamp: 2024/09/25 15:31
Operator ID: NF IZ Sample Type: Sample

Reviewed By:Iwona
On:10/1/2024 2:41:11 PM
Inst Id :Appolo-9000
LB :LB132641

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	0.1868	0.0934	6340	-3.005	-2.908	120
2	0.1290	0.0645	4379	-2.978	-2.916	120
3	0.2191	0.1096	7439	-2.995	-2.919	120
4	0.1390	0.0695	4718	-2.969	-2.868	120

Last Message: Low Sample Detected
<<<Statistics>>> Mean: 0.1685 Std Dev: 0.0421 RSD: 25.01

Sample ID: IC-20 Mode: TOC
Method: TOC 0 - 20 ppmC Filename: 09251050
Cal. Curve: TOC WATER 0-20PPM Timestamp: 2024/09/25 15:54
Operator ID: NF IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	0.1108	0.0554	3761	-2.957	-2.925	120
2	0.1349	0.0675	4580	-2.975	-2.943	120
3	0.2197	0.1099	7459	-2.964	-2.878	120
4	0.2121	0.1061	7202	-2.937	-2.906	120

Last Message: Low Sample Detected
<<<Statistics>>> Mean: 0.1694 Std Dev: 0.0547 RSD: 32.30

Sample ID: IC-R Mode: TOC
Method:
TOC 0 - 20 ppmC Filename: 09251050
Cal. Curve: TOC WATER 0-20PPM Timestamp: 2024/09/25 16:18
Operator ID: NF IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	0.1389	0.0694	4715	-2.914	-2.867	120
2	0.1870	0.0935	6348	-2.915	-2.867	120
3	0.2024	0.1012	6871	-2.908	-2.827	120
4	0.1329	0.0665	4512	-2.881	-2.840	120

Last Message: Low Sample Detected
<<<Statistics>>> Mean: 0.1653 Std Dev: 0.0346 RSD: 20.94

LB132641

WORKLIST(Hardcopy Internal Chain)

WorkList Name : TOC W PT-09262024 **WorkList ID :** 183909 **Department :** Wet-Chemistry **Date :** 09-26-2024 11:36:42

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P3848-03	PT-DEM-WP	Water	TOC	Conc H2SO4 to pH < 2	CHEM02	QA Of	09/03/2024	SM5310B

Date/Time 09·26·2024

Raw Sample Received by: NA(WC)

Raw Sample Relinquished by: SJ (QAO)

Date/Time NA

Raw Sample Received by: "

Raw Sample Relinquished by: "

Reviewed By:Iwona
On:10/1/2024 2:41:11 PM
Inst Id :Appolo-9000
LB :LB132641

Reviewed By:Iwona
On:9/30/2024 11:51:32 AM
Inst Id :WC TURBIDIMETER-1

Analytical Summary Report

Analysis Method: 180.1 ANALYST: Niha

Parameter: Turbidity SUPERVISOR REVIEW BY: Iwona

Run Number: LB132660

Reagent/Standard	Lot/Log #
Turbidity Calibration std, 0NTU	WP109925
Turbidity Calibration std, 20NTU	WP109927
Turbidity Calibration std, 40NTU	WP109926
Turbidity Calibration std, 1NTU	WP109929
Turbidity Calibration std, 5NTU	WP109928
Turbidity Calibration - CCV std, 10 NTU	WP109930
10 NTU Standard 500 ml	W3116

Intercept: -0.0156 **Slope:** 0.9363 **Regression:** 0.9999

Seq	Lab ID	True Value (NTU)	Dilution	Reading	Result (mg/l)	%D	Anal Date	Anal Time
1	CAL1	0	1	0.148	0.18		09/26/2024	10:24
2	CAL2	1	1	1.020	1.11	10.6	09/26/2024	10:28
3	CAL3	5	1	4.510	4.83	-3.3	09/26/2024	10:32
4	CAL4	10	1	9.390	10.05	0.4	09/26/2024	10:36
5	CAL5	20	1	18.400	19.67	-1.7	09/26/2024	10:40
6	CAL6	40	1	37.600	40.18	0.4	09/26/2024	10:44

Reviewed By:Iwona
On:9/30/2024 11:51:32 AM
Inst Id :WC TURBIDIMETER-1

Analytical Summary Report

Analysis Method: 180.1
Parameter: Turbidity
Run Number: LB132660

ANALYST: Niha
SUPERVISOR REVIEW BY: Iwona

Seq	Lab ID	True Value (NTU)	Dilution	Reading	Result (NTU)	AnalDate	Anal Time
1	ICV	10	1	8.910	9.533	09/26/2024	10:48
2	ICB		1	0.146	0.173	09/26/2024	10:52
3	CCV1	10	1	8.820	9.437	09/26/2024	10:56
4	CCB1		1	0.141	0.167	09/26/2024	11:00
5	LB132660BL		1	0.138	0.164	09/26/2024	11:04
6	P3848-34		1	24.100	25.756	09/26/2024	11:08
7	CCV2	10	1	9.300	9.949	09/26/2024	11:12
8	CCB2		1	0.140	0.166	09/26/2024	11:16

LB132660

WORKLIST(Hardcopy Internal Chain)

WorkList Name : TURBIDITY - 09262024 **WorkList ID :** 183878 **Department :** Wet-Chemistry **Date :** 09-26-2024 09:04:37

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P3848-34	PT-TURB-WP	Water	Turbidity	Cool 4 deg C	CHEM02	QA Of	09/03/2024	180.1

Date/Time 09.26.2024. 09:15

Raw Sample Received by: NF(WC)

Raw Sample Relinquished by: JJ (QAO)

Date/Time NA

Raw Sample Received by: ~~

Raw Sample Relinquished by: ~~

Reviewed By:iwona
On:9/30/2024 11:51:32 AM
Inst Id :WC
TURBIDIMETER-1

Alliance TECHNICAL GROUP

Analytical Summary Report

Analysis Method: 9034
Parameter: Sulfide
Run Number: LB132667

ANALYST: rubina
SUPERVISOR REVIEW BY: Iwona
Constant: 16000
Normality1: 0.025
Normality2: 0.025

Reagent/Standard	Lot/Log #
SODIUM THIOSULFATE,0.025N,4LITRE	W3105
IODINE SOLUTION .025N 1L	W3114
Starch Solution, 4L	W2977

Seq	Lab ID	True Value (mg/L)	DF	Initial Volume (mL)	Final Volume (mL)	T1 (mL)	T2 Initial	T2 Final	T2 Diff. (mL)	T1 - T2 Diff (mL)	Value Corrected With Blank	Result (ppm)	AnalDate	Anal Time
1	PB163761BL		1	50	50	5.00	0.00	4.88	4.88	0.12	0.00	0.00	09/30/2024	13:00
2	PB163761BS	25	1	50	50	5.00	0.00	2.24	2.24	2.76	2.64	21.12	09/30/2024	13:03
3	P3848-29		1	50	50	5.00	0.00	4.52	4.52	0.48	0.36	2.88	09/30/2024	13:06
4	P4180-21		1	50	50	5.00	0.00	4.86	4.86	0.14	0.02	0.16	09/30/2024	13:09
5	P4180-21DUP		1	50	50	5.00	0.00	4.86	4.86	0.14	0.02	0.16	09/30/2024	13:12
6	P4180-21MS	25	1	50	50	5.00	0.00	2.16	2.16	2.84	2.72	21.76	09/30/2024	13:15
7	P4180-21MSD	25	1	50	50	5.00	0.00	2.16	2.16	2.84	2.72	21.76	09/30/2024	13:18

T1 = Titrant1

T2 = Titrant2

T2 Diff = T2 Final - T2 Initial

Value Corrected With Blank = ((T1 - T2 Diff) - Blank Correction(BL))

Result = ((T1 * Normality1) - ((T1 - Value Corrected With Blank) * Normality2)) * Constant / Initial Volume

Alliance TECHNICAL GROUP

Analytical Summary Report

Analysis Method: SM4500 S EorF
Parameter: Sulfide
Run Number: LB132668

ANALYST: rubina
SUPERVISOR REVIEW BY: Iwona
Constant: 16000
Normality1: 0.025
Normality2: 0.025

Reagent/Standard	Lot/Log #
SODIUM THIOSULFATE,0.025N,4LITRE	W3105
IODINE SOLUTION .025N 1L	W3114
Starch Solution, 4L	W2977

Seq	Lab ID	True Value (mg/L)	DF	Initial Volume (mL)	Final Volume (mL)	T1 (mL)	T2 Initial	T2 Final	T2 Diff. (mL)	T1 - T2 Diff (mL)	Value Corrected With Blank	Result (ppm)	AnalDate	Anal Time
1	PB163762BL		1	50	50	5.00	0.00	4.88	4.88	0.12	0.00	0.00	09/30/2024	13:21
2	PB163762BS	25	1	50	50	5.00	0.00	2.24	2.24	2.76	2.64	21.12	09/30/2024	13:24
3	P3848-28		1	50	50	5.00	0.00	4.52	4.52	0.48	0.36	2.88	09/30/2024	13:27

T1 = Titrant1

T2 = Titrant2

T2 Diff = T2 Final - T2 Initial

Value Corrected With Blank = ((T1 - T2 Diff) - Blank Correction(BL))

Result = ((T1 * Normality1) - ((T1 - Value Corrected With Blank) * Normality2)) * Constant / Initial Volume

TOTAL SOLIDS - SM2540B

SUPERVISOR: Iwona
ANALYST: jignesh
Date: 10/01/2024
Run Number: LB132686
BalanceID: WC SC-6
OvenID: WC OVEN-1
ThermometerID: WET OVEN#1

TEMP1 IN:	103 °C	10/01/2024 11:00	**TEMP1 OUT:**	104 °C	10/01/2024 12:00
TEMP2 IN:	103 °C	10/01/2024 12:30	**TEMP2 OUT:**	104 °C	10/01/2024 13:30
TEMP3 IN:	104 °C	10/01/2024 16:00	**TEMP3 OUT:**	104 °C	10/02/2024 07:30
TEMP4 IN:	103 °C	10/02/2024 08:00	**TEMP4 OUT:**	103 °C	10/02/2024 09:30

Dish #	Lab ID	Client ID	Empty Dish Weight (g)	Final Empty Dish Weight (g)	Sample Vol (ml)	Orignal weight 1st Dish+Sample weight after Drying @103-@105°C (g)	Constant weight 2nd Dish+Sample weight after Drying @103-@105°C (g)	Final Constant weight Final Dish+Sample weight after Drying @103-@105°C (g)	Weight (g)	Result (mg/L)
1	LB132686BL	LB132686BL	75.9635	75.9635	100	75.9635	75.9635	75.9635	0.0000	0
2	P3848-10	PT-SOL-WP	101.0910	101.0910	100	101.1640	101.1640	101.1640	0.0730	730
3	P4235-02	A1403	89.8637	89.8637	100	90.0949	90.0949	90.0949	0.2312	2312
4	P4235-02DUP	A1403DUP	85.0921	85.0921	100	85.3306	85.3306	85.3306	0.2385	2385
5	P4254-05	MH-147	91.5882	91.5882	100	91.7769	91.7769	91.7769	0.1887	1887

A = Sample Volume (ml)
B = Final Empty Dish Weight (g)
C = Final Dish+Sample weight after Drying @103-@105°C (g)

Result mg/L = ((C - B) / A) * 1000 * 1000

WORKLIST(Hardcopy Internal Chain)

LB 132686

WorkList Name : ts water p4235 **WorkList ID :** 183993 **Department :** Wet-Chemistry **Date :** 10-01-2024 10:24:31

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P3848-10	PT-SOL-WP	Water	TS	Cool 4 deg C	CHEM02	QA Of	09/03/2024	SM2540 B
P4235-02 J	A1403	Water	TS	Cool 4 deg C	PSEG03	J51	09/30/2024	SM2540 B
P4254-05 F	MH-147	Water	TS	Cool 4 deg C	PSEG03	J51	10/01/2024	SM2540 B

Date/Time 10/01/24 14:10
Raw Sample Received by: JD WC1
Raw Sample Relinquished by: ITCSM

Date/Time 10/01/24 16:10
Raw Sample Received by: ITCSM
Raw Sample Relinquished by: JD WC1

Reviewed By:lwona
On:10/2/2024 10:58:27 AM
Inst Id :WC SC-3
LB :LB132686

TOTAL Dissolved Solids - SM2540C

Run Number: LB132691 **Date:** 10/02/2024

SUPERVISOR: Iwona **ANALYST:** jignesh **BalanceID:** WC SC-6

Filter ID: 17416528

EMPTY DISH TEMP IN:	103 °C	10/01/2024	12:00	**EMPTY DISH TEMP OUT:**	103 °C	10/01/2024	13:00	**OvenID:** WC OVEN-1	**Thermo ID:** WET OVNE#1
TEMP1 IN:	104 °C	10/01/2024	13:30	**TEMP1 OUT:**	104 °C	10/01/2024	14:30	**OvenID1:** WC OVEN-1	**Thermo ID1:** WET OVEN#1
TEMP2 IN:	104 °C	10/01/2024	17:30	**TEMP2 OUT:**	103 °C	10/02/2024	08:00	**OvenID2:** WC OVEN-2	**Thermo ID2:** WET OVEN#2
TEMP3 IN:	180 °C	10/02/2024	08:05	**TEMP3 OUT:**	182 °C	10/02/2024	10:00	**OvenID3:** WC OVEN#2	**Thermo ID3:** WET OVEN#2

Dish #	Lab ID	Client ID	Empty Dish Weight (g)	Final Empty Dish Weight (g)	Sample Volume (ml)	1st Empty Dish+Sample weight after 1.5hr drying @180(±2)°C (g)	2nd Empty Dish+Sample weight after 1.5hr drying @180(±2)°C (g)	Final Empty Dish+Sample weight after 1.5hr drying @180(±2)°C (g)	Weight (g)	Result mg/L
1	LB132691BL	LB132691BL	85.9637	85.9637	100	85.9637	85.9637	85.9637	0.0000	0
2	LB132691BS	LB132691BS	95.8637	95.8637	100	95.8732	95.8732	95.8732	0.0095	95
3	P3848-10	PT-SOL-WP	94.6008	94.6008	100	94.6700	94.6700	94.6700	0.0692	692
4	P4253-01	1 Effluent Composite	91.0510	91.0510	100	91.4454	91.4454	91.4454	0.3944	3944
5	P4260-01	TOWER-2	85.4617	85.4617	100	85.8186	85.8186	85.8186	0.3569	3569
6	P4260-01DUP	TOWER-2DUP	90.5149	90.5149	100	90.8699	90.8699	90.8699	0.3550	3550

A = Sample Volume (ml)
B = Empty Dish Weight (g)
C = 2nd Empty Dish + Sample weight after 1.5 hr drying @180(±2)°C(g)
D = Weight (g)

Weight (g) = C - B

$$\text{Result mg/L} = \frac{D}{A} * 1000 * 1000$$

WORKLIST(Hardcopy Internal Chain)

LB132691

WorkList Name : tds p4259 water **WorkList ID :** 184003 **Department :** Wet-Chemistry **Date :** 10-01-2024 15:11:40

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P3848-10	PT-SOL-WP	Water	TDS	Cool 4 deg C	CHEM02	QA Of	09/03/2024	SM2540 C
P4253-01 H	1 Effluent Composite	Water	TDS	Cool 4 deg C	M&MM01	H11	10/01/2024	SM2540 C
P4260-01 B	TOWER-2	Water	TDS	Cool 4 deg C	PSEG04	J51	10/01/2024	SM2540 C

Date/Time 10/01/24 17:15

Raw Sample Received by: JD (WC)

Raw Sample Relinquished by: JD (SM)

Date/Time 10/01/24 18:00

Raw Sample Received by: JD (SM)

Raw Sample Relinquished by: JD (WC)

Reviewed By:lwona On:10/2/2024 10:58:04 AM Inst Id :WC SC-3 LB :LB132691

TOTAL SUSPENDED SOLIDS - SM2540D

SUPERVISOR: Iwona
ANALYST: jignesh
Date: 10/02/2024
Run Number: LB132725
BalanceID: WC SC-6
OvenID: WC OVEN-1
FilterID: 17416528
ThermometerID: WET OVEN#1

TEMP1 IN:	103 °C	10/02/2024 14:00	**TEMP1 OUT:**	103 °C	10/02/2024 15:00
TEMP2 IN:	104 °C	10/02/2024 15:30	**TEMP2 OUT:**	104 °C	10/02/2024 16:30
TEMP3 IN:	104 °C	10/03/2024 10:00	**TEMP3 OUT:**	103 °C	10/03/2024 12:30
TEMP4 IN:	104 °C	10/03/2024 13:00	**TEMP4 OUT:**	104 °C	10/03/2024 14:30

Dish #	Lab ID	Client ID	Empty Dish Weight (g)	Final Empty Dish Weight (g)	Sample Volume (ml)	1st Empty Dish+Sample weight after 1.5hr drying @103-@105°C (g)	2nd Empty Dish+Sample weight after 1.5hr drying @103-@105°C (g)	Final Empty Dish+Sample weight after 1.5hr drying @103-@105°C (g)	Weight (g)	Result mg/L
1	LB132725BL	LB132725BL	1.3526	1.3526	100	1.3526	1.3526	1.3526	0.0000	0
2	LB132725BS	LB132725BS	1.4961	1.4961	100	1.5493	1.5493	1.5493	0.0532	532
3	P3848-10	PT-SOL-WP	1.4006	1.4006	100	1.4069	1.4069	1.4069	0.0063	63
4	P4235-02	A1403	1.4129	1.4129	1000	2.0668	2.0669	2.0669	0.6540	654
5	P4235-02DUP	A1403DUP	1.4027	1.4027	1000	2.0568	2.0568	2.0568	0.6541	654.1
6	P4253-01	1 Effluent Composite	1.3731	1.3731	500	1.4038	1.4038	1.4038	0.0307	61.4
7	P4254-05	MH-147	1.4078	1.4078	200	1.6289	1.6289	1.6289	0.2211	1105.5
8	P4260-01	TOWER-2	1.3730	1.3730	1000	1.3789	1.3789	1.3789	0.0059	5.9
9	P4262-01	14B-1	1.3814	1.3814	10	1.4763	1.4763	1.4763	0.0949	9490
10	P4262-02	14B-2	1.3805	1.3805	10	1.4888	1.4888	1.4888	0.1083	10830
11	P4262-03	14B-3	1.3790	1.3790	10	1.5144	1.5144	1.5144	0.1354	13540
12	P4262-04	14B-4	1.3881	1.3881	10	1.5072	1.5072	1.5072	0.1191	11910
13	P4269-02	COMP	1.3946	1.3946	100	1.4489	1.4489	1.4489	0.0543	543
14	P4271-01	14B-1	1.3677	1.3677	10	1.4559	1.4559	1.4559	0.0882	8820
15	P4271-02	14B-2	1.3987	1.3987	10	1.4646	1.4646	1.4646	0.0659	6590

TOTAL SUSPENDED SOLIDS - SM2540D

SUPERVISOR: Iwona
ANALYST: jignesh
Date: 10/02/2024
Run Number: LB132725
BalanceID: WC SC-6
OvenID: WC OVEN-1
FilterID: 17416528
ThermometerID: WET OVEN#1

TEMP1 IN:	103 °C	10/02/2024 14:00	**TEMP1 OUT:**	103 °C	10/02/2024 15:00
TEMP2 IN:	104 °C	10/02/2024 15:30	**TEMP2 OUT:**	104 °C	10/02/2024 16:30
TEMP3 IN:	104 °C	10/03/2024 10:00	**TEMP3 OUT:**	103 °C	10/03/2024 12:30
TEMP4 IN:	104 °C	10/03/2024 13:00	**TEMP4 OUT:**	104 °C	10/03/2024 14:30

Dish #	Lab ID	Client ID	Empty Dish Weight (g)	Final Empty Dish Weight (g)	Sample Volume (ml)	1st Empty Dish+Sample weight after 1.5hr drying @103-@105°C (g)	2nd Empty Dish+Sample weight after 1.5hr drying @103-@105°C (g)	Final Empty Dish+Sample weight after 1.5hr drying @103-@105°C (g)	Weight (g)	Result mg/L
16	P4271-03	14B-3	1.4115	1.4115	10	1.4835	1.4835	1.4835	0.0720	7200
17	P4271-04	14B-4	1.3764	1.3764	10	1.4389	1.4389	1.4389	0.0625	6250
18	P4274-01	222254	1.3849	1.3849	2000	1.4609	1.4609	1.4609	0.0760	38

A = Sample Volume (ml)
B = Final Empty Dish Weight (g)
C = Final Empty Dish + Sample weight after 1.5 hr drying @105°C(g)
D = Weight (g)

Weight (g) = C - B

Result mg/L = $\frac{D}{A} * 1000 * 1000$

WORKLIST(Hardcopy Internal Chain)

LB 132725

WorkList Name : tss p4209 **WorkList ID :** 184060 **Department :** Wet-Chemistry **Date :** 10-03-2024 07:52:50

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P3848-10	PT-SOL-WP	Water	TSS	Cool 4 deg C	CHEM02	QA Of	09/03/2024	SM2540 D
P4235-02 K	A1403	Water	TSS	Cool 4 deg C	PSEG03	J51	09/30/2024	SM2540 D
P4253-01 J	1 Effluent Composite	Water	TSS	Cool 4 deg C	M&MM01	H11	10/01/2024	SM2540 D
P4254-05 F	MH-147	Water	TSS	Cool 4 deg C	PSEG03	J51	10/01/2024	SM2540 D
P4260-01 A	TOWER-2	Water	TSS	Cool 4 deg C	PSEG04	J51	10/01/2024	SM2540 D
P4262-01 C	14B-1	Water	TSS	Cool 4 deg C	NEWY17	J51	10/01/2024	SM2540 D
P4262-02 C	14B-2	Water	TSS	Cool 4 deg C	NEWY17	J51	10/01/2024	SM2540 D
P4262-03 C	14B-3	Water	TSS	Cool 4 deg C	NEWY17	J51	10/01/2024	SM2540 D
P4262-04 C	14B-4	Water	TSS	Cool 4 deg C	NEWY17	J51	10/01/2024	SM2540 D
P4269-02 C	COMP	Water	TSS	Cool 4 deg C	ARAM01	H11	10/02/2024	SM2540 D
P4271-01 C	14B-1	Water	TSS	Cool 4 deg C	NEWY17	J53	10/02/2024	SM2540 D
P4271-02 C	14B-2	Water	TSS	Cool 4 deg C	NEWY17	J53	10/02/2024	SM2540 D
P4271-03 C	14B-3	Water	TSS	Cool 4 deg C	NEWY17	J53	10/02/2024	SM2540 D
P4271-04 C	14B-4	Water	TSS	Cool 4 deg C	NEWY17	J53	10/02/2024	SM2540 D
P4274-01 J,K	222254	Water	TSS	Cool 4 deg C	PSEG03	J53	10/02/2024	SM2540 D

Date/Time 10/03/24 08:00
Raw Sample Received by: JD (WC)
Raw Sample Relinquished by: RM SM

Date/Time 10/03/24 13:00
Raw Sample Received by: RM SM
Raw Sample Relinquished by: JD (WC)

Reviewed By:iwona
On:10/3/2024 11:32:04 AM
Inst Id :WC SC-3
LB :LB132725

TOTAL VOLATILE SOLIDS SM2540 G

TEMP1 IN:	103 °C	10/15/2024 16:00	**TEMP1 OUT:**	103 °C	10/16/2024 07:30
TEMP2 IN:	104 °C	10/16/2024 08:00	**TEMP2 OUT:**	103 °C	10/16/2024 09:30
TEMP3 IN:	540 °C	10/16/2024 10:00	**TEMP3 OUT:**	560 °C	10/16/2024 11:30
TEMP4 IN:	540 °C	10/16/2024 12:00	**TEMP4 OUT:**	540 °C	10/16/2024 13:30

Run Number: LB132943
SUPERVISOR: Iwona
ANALYST: jignesh
BalanceID: WC SC-6
OvenID: WC OVEN-1

Dish #	Lab ID	Empty Dish Weight (g)	Final Empty Dish Weight (g)	Sample Vol (ml)	1st Dish + SampleWt Drying @103-@105°C (g)	Final Dish + SampleWt Drying @103-@105°C (g)	Dish + Samplewt Drying @550(±50)°C (g)	Final Dish + Samplewt Drying @550(±50)°C (g)	Weight Diff (g)	Result (mg/L)
1	LB132943BL	94.5841	94.5841	100	94.5841	94.5841	94.5841	94.5841	0.0000	0
2	P3848-31	94.5797	94.5797	100	94.6206	94.6206	94.5834	94.5834	0.0372	372

A = Sample Volume (ml)
B = Final Dish + Samplewt Drying @550(±50)°C (g)
C = Final Dish + SampleWt Drying @103-@105°C (g)
D = Weight (g)
E = Final Empty Dish Weight (g)
F = Final Dish + SampleWt Drying @103-@105°C (g)

Weight D = C - B

Result % = $\frac{D}{A} * 1000000$

WORKLIST(Hardcopy Internal Chain)

WB 132943

WorkList Name : ts p4368 water **WorkList ID :** 184454 **Department :** Wet-Chemistry **Date :** 10-15-2024 11:42:22

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P3848-31	PT-VSOL-WP	Water	TVS	Cool 4 deg C	CHEM02	QA Of	09/03/2024	SM2540 G

Date/Time 10.15.24 12:30

Raw Sample Received by: [illegible]

Raw Sample Relinquished by: SJ (QAO)

Date/Time 10.15.24 16:30

Raw Sample Received by: NM

Raw Sample Relinquished by: [illegible]

Reviewed By:lwona
On:10/17/2024 1:00:05 PM
Inst Id :WC SC-3
LB :LB132943

TOTAL VOLATILE SOLIDS 160.4

TEMP1 IN:	103 °C	10/15/2024 16:00	**TEMP1 OUT:**	103 °C	10/16/2024 07:30
TEMP2 IN:	104 °C	10/16/2024 08:00	**TEMP2 OUT:**	103 °C	10/16/2024 09:30
TEMP3 IN:	540 °C	10/16/2024 10:00	**TEMP3 OUT:**	560 °C	10/16/2024 11:30
TEMP4 IN:	540 °C	10/16/2024 12:00	**TEMP4 OUT:**	540 °C	10/16/2024 13:30

Run Number: LB132944
SUPERVISOR: Iwona
ANALYST: jignesh
BalanceID: WC SC-6
OvenID: WC OVEN-1

Dish #	Lab ID	Empty Dish Weight (g)	Final Empty Dish Weight (g)	Sample Vol (ml)	1st Dish + SampleWt Drying @103-@105°C (g)	Final Dish + SampleWt Drying @103-@105°C (g)	Dish + Samplewt Drying @550(±50)°C (g)	Final Dish + Samplewt Drying @550(±50)°C (g)	Weight Diff (g)	Result (mg/L)
1	LB132944BL	94.5841	94.5841	100	94.5841	94.5841	94.5841	94.5841	0.0000	0
2	P3848-32	94.5797	94.5797	100	94.6206	94.6206	94.5834	94.5834	0.0372	372

A = Sample Volume (ml)
B = Final Dish + Samplewt Drying @550(±50)°C (g)
C = Final Dish + SampleWt Drying @103-@105°C (g)
D = Weight (g)
E = Final Empty Dish Weight (g)
F = Final Dish + SampleWt Drying @103-@105°C (g)

Weight D = C - B

Result % = $\frac{D}{A} * 1000000$

WORKLIST(Hardcopy Internal Chain)

LB132944

WorkList Name : tvs p3848 water **WorkList ID :** 184455 **Department :** Wet-Chemistry **Date :** 10-15-2024 11:43:41

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P3848-32	PT-VSOL-WP	Water	TVS	Cool 4 deg C	CHEM02	QA Of	09/03/2024	160.4

Date/Time 10/5-2024 10.15.24 12:30

Raw Sample Received by: JD (WC)

Raw Sample Relinquished by: SJ (QAO)

Date/Time 10/15/24 16:30

Raw Sample Received by: NA

Raw Sample Relinquished by: JD (WC)

Reviewed By:lwona
On:10/17/2024
12:59:40 PM
Inst Id :WC SC-3
LB :LB132944

Alliance TECHNICAL GROUP

Water Phosphorus-Total Preparation Sheet

PB163343

SOP ID : M365.3 & SM4500-P E-18

SDG No : N/A

Start Digest Date: 09/12/2024 **Time :** 10:30 **Temp :** 95 °C

Matrix : WATER

End Digest Date: 09/12/2024 **Time :** 11:30 **Temp :** 96 °C

Pippete ID : WC

Balance ID : N/A

Hood ID : HOOD#3 **Digestion tube ID :** M5595 **Block Thermometer ID :** WC-BLOCK#1

Block ID : WC S-1,WC S-2 **Filter paper ID :** N/A **Prep Technician Signature:** NF

Weigh By : N/A **pH Meter ID :** N/A **Supervisor Signature:** iz

Standared Name	MLS USED	STD REF. # FROM LOG
LCSW	0.5ML	WP108504
MS/MSD SPIKE SOL.	0.5ML	WP108503
PBW	50ML	W3112
N/A	N/A	N/A
N/A	N/A	N/A

Chemical Used	ML/SAMPLE USED	Lot Number
11N H2SO4	1ML	WP106911
AMMONIUM PERSULFATE	0.4GM	W3035
pH Paper 0-14	N/A	W3121
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

LAB SAMPLE ID	CLIENT SAMPLE ID	Wt(g)/Vol(ml)	Comment
CAL1	CAL1	50ML	WP109581
CAL2	CAL2	50ML	WP109582
CAL3	CAL3	50ML	WP109583
CAL4	CAL4	50ML	WP109584
CAL5	CAL5	50ML	WP109585
CAL6	CAL6	50ML	WP109586
ICV	ICV	50ML	WP109587
ICB	ICB	50ML	W3112
CCV	CCV	50ML	WP109588
CCB	CCB	50ML	W3112

Extraction Conformance/Non-Conformance Comments:

N/A

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
	Preparation Group	Analysis Group NF 09.12.2024

Alliance TECHNICAL GROUP

Water Phosphorus-Total Preparation Sheet

PB163343

Lab Sample ID	Client Sample ID	Initial Vol (ml)	Final Vol (ml)	pH	Sulfide	Oxidizing	Nitrate/ Nitrite	Comment	Prep Pos
P3848-13	PT-NUT2-WP	50	50	<2	N/A	N/A	N/A	N/A	N/A
P3901-01	EFFLUENT	50	50	<2	N/A	N/A	N/A	N/A	N/A
P3940-01	AST-2024-4036-PRIM	50	50	<2	N/A	N/A	N/A	N/A	N/A
P3940-01DUP	AST-2024-4036-PRIMDUP	50	50	<2	N/A	N/A	N/A	N/A	N/A
P3940-01MS	AST-2024-4036-PRIMMS	50	50	<2	N/A	N/A	N/A	N/A	N/A
P3940-01MSD	AST-2024-4036-PRIMMSD	50	50	<2	N/A	N/A	N/A	N/A	N/A
PB163343BL	PBW343	50	50	<2	N/A	N/A	N/A	N/A	N/A
PB163343BS	LCS343	50	50	<2	N/A	N/A	N/A	N/A	N/A

WORKLIST(Hardcopy Internal Chain)

WorkList Name : TOTAL-P-09122024 **WorkList ID :** 183418 **Department :** Distillation **Date :** 09-12-2024 09:09:57

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P3940-01	AST-2024-4036-PRIM	Water	Phosphorus-Total	Conc H2SO4 to pH < 2	WIND03	H53	08/29/2024	365.3
P3848-13	PT-NUT2-WP	Water	Phosphorus-Total	Conc H2SO4 to pH < 2	CHEM02	QA Of	09/03/2024	365.3
P3901-01	EFFLUENT	Water	Phosphorus-Total	Conc H2SO4 to pH < 2	HOLL01	H53	09/06/2024	365.3

Date/Time 09·12·2024, 09:30
Raw Sample Received by: NF(WC)
Raw Sample Relinquished by: [signature]

Date/Time 09·12·2024, 12:06
Raw Sample Received by: [signature]
Raw Sample Relinquished by: NF(WC)

Alliance TECHNICAL GROUP

Water TKN Preparation Sheet

PB163389

SOP ID : MSM4500-N Org C-TKN-11

SDG No : N/A | **Start Digest Date:** 09/18/2024 **Time :** 11:30 **Temp :** 370 °C

Matrix : WATER | **End Digest Date:** 09/18/2024 **Time :** 13:00 **Temp :** 375 °C

Pippete ID : WC | **Start Distillation Date:** 09/18/2024 **Time :** 13:30 **Temp :** 150 °C

Balance ID : N/A | **End Distillation Date:** 09/18/2024 **Time :** 14:30 **Temp :** 160 °C

Hood ID : HOOD#2&3 | **Digestion tube ID :** M5595 | **Block Thermometer ID :** Therm#2(2179)

Block ID : WC-DIST-BLOCK-1 | **Filter paper ID :** N/A | **Prep Technician Signature:** RM

Weigh By : N/A | **pH Meter ID :** N/A | **Supervisor Signature:**

Standared Name	MLS USED	STD REF. # FROM LOG
TKN CAL STD	50.0ML	WP109683
TKN CCV STD	50.0ML	WP109684
TKN ICV STD	50.0ML	WP109685
TKN LCS STD	50.0ML	WP109686
MS/MSD SPIKE SOL.	0.25ML	WP107363

Chemical Used	ML/SAMPLE USED	Lot Number
TKN DIGESTION FLUID	10.0ML	WP108657
TKN DISTILLATION BUFFER	10.0ML	WP109441
H2SO4 0.04N	5.0ML	WP107527
pH Paper 0-14	N/A	W3121
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

ALL GLASSWEAR ARE STEAMED OUT AND THERE WERE NO TRACE OF AMMONIA USING NESLER REAGENT
WP108814

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
09/18/2024 14:40	RM (WC)	RM (WC)
09/18/2024 15:55	**Preparation Group**	**Analysis Group**

Alliance TECHNICAL GROUP

Water TKN Preparation Sheet

PB163389

Lab Sample ID	Client Sample ID	Initial Vol (ml)	Final Vol (ml)	pH	Sulfide	Oxidizing	Nitrate/ Nitrite	Comment	Prep Pos
P3848-13	PT-NUT2-WP	50	50	<2	N/A	N/A	N/A	PH AFTER ADDING DIST BUFFER>11	N/A
P4085-05	PURGE-WATER	50	50	<2	N/A	N/A	N/A	PH AFTER ADDING DIST BUFFER>11	N/A
P4085-05DUP	PURGE-WATERDUP	50	50	<2	N/A	N/A	N/A	PH AFTER ADDING DIST BUFFER>11	N/A
P4085-05MS	PURGE-WATERMS	50	50	<2	N/A	N/A	N/A	PH AFTER ADDING DIST BUFFER>11	N/A
P4085-05MSD	PURGE-WATERMSD	50	50	<2	N/A	N/A	N/A	PH AFTER ADDING DIST BUFFER>11	N/A
PB163389BL	PBW389	50	50	<2	N/A	N/A	N/A	PH AFTER ADDING DIST BUFFER>11	N/A
PB163389BS	LCS389	50	50	<2	N/A	N/A	N/A	PH AFTER ADDING DIST BUFFER>11	N/A

WORKLIST(Hardcopy Internal Chain)

WorkList Name : tkn-9-17 **WorkList ID :** 183576 **Department :** Distillation **Date :** 09-17-2024 16:19:19

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P3848-13	PT-NUT2-WP	Water	TKN	Conc H2SO4 to pH < 2	CHEM02	QA Of	09/03/2024	SM4500 N Org
P4085-05	PURGE-WATER	Water	TKN	Conc H2SO4 to pH < 2	PSEG03	H53	09/17/2024	SM4500 N Org

Date/Time 09/18/2024 10.40
Raw Sample Received by: RM CWC
Raw Sample Relinquished by:

Date/Time 09/18/2024 11.45
Raw Sample Received by:
Raw Sample Relinquished by: RM CWC

Alliance TECHNICAL GROUP

Water Phenolics Preparation Sheet

PB163449

SOP ID : M420.1 & 9065-Phenolics-13

SDG No : N/A

Start Digest Date: 09/19/2024 **Time :** 08:45 **Temp :** 150 °C

Matrix : WATER

End Digest Date: 09/19/2024 **Time :** 09:45 **Temp :** 160 °C

Pippete ID : WC

Balance ID : N/A

Hood ID : HOOD#2 **Digestion tube ID :** M5595 **Block Thermometer ID :** WC CYANIDE

Block ID : WC-DIST-BLOCK-1 **Filter paper ID :** N/A **Prep Technician Signature:** RM

Weigh By : N/A **pH Meter ID :** N/A **Supervisor Signature:** 12

Standared Name	MLS USED	STD REF. # FROM LOG
LCSW	1.0ML	WP109632
MS/MSD SPIKE SOL.	1.0ML	WP109631
PBW	50.0ML	W3112
N/A	N/A	N/A
N/A	N/A	N/A

Chemical Used	ML/SAMPLE USED	Lot Number
pH Paper 0-14	N/A	W3140
CONC H2SO4	N/A	M5673
KI-starch paper	N/A	W2965
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

N/A

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
09/19/2024 10:00	RM (WC)	RM (WC)
	Preparation Group	**Analysis Group**

Alliance TECHNICAL GROUP

Water Phenolics Preparation Sheet

PB163449

Lab Sample ID	Client Sample ID	Initial Vol (ml)	Final Vol (ml)	pH	Sulfide	Oxidizing	Nitrate/ Nitrite	Comment	Prep Pos
P3848-26	PT-PHEN-WP	50	50	<2	N/A	Negative	N/A	N/A	N/A
P3940-01	AST-2024-4036-PRIM	50	50	<2	N/A	Negative	N/A	N/A	N/A
P3940-01DUP	AST-2024-4036-PRIMDUP	50	50	<2	N/A	Negative	N/A	N/A	N/A
P3940-01MS	AST-2024-4036-PRIMMS	50	50	<2	N/A	Negative	N/A	N/A	N/A
P3940-01MSD	AST-2024-4036-PRIMMSD	50	50	<2	N/A	Negative	N/A	N/A	N/A
PB163449BL	PBW449	50	50	<2	N/A	Negative	N/A	N/A	N/A
PB163449BS	LCS449	50	50	<2	N/A	Negative	N/A	N/A	N/A

WORKLIST(Hardcopy Internal Chain)

WorkList Name : PHE-19-24 **WorkList ID :** 183643 **Department :** Distillation **Date :** 09-19-2024 08:07:56

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P3848-26	PT-PHEN-WP	Water	Phenolics	Conc H2SO4 to pH < 2	CHEM02	QA Of	09/03/2024	420.1
P3940-01	AST-2024-4036-PRIM	Water	Phenolics	Conc H2SO4 to pH < 2	WIND03	H53	08/29/2024	420.1

Date/Time 09/19/2024 08:15
Raw Sample Received by: RM CWU
Raw Sample Relinquished by: [signature]

Date/Time 09/19/2024 08:55
Raw Sample Received by: [signature]
Raw Sample Relinquished by: RM CWU

Alliance TECHNICAL GROUP

Water Phenolics Preparation Sheet

PB163450

SOP ID : M420.1 & 9065-Phenolics-13

SDG No : N/A

Start Digest Date: 09/19/2024 **Time :** 10:10 **Temp :** 150 °C

Matrix : WATER

End Digest Date: 09/19/2024 **Time :** 11:10 **Temp :** 160 °C

Pippete ID : WC

Balance ID : N/A

Hood ID : HOOD#2 **Digestion tube ID :** M5595 **Block Thermometer ID :** WC CYANIDE

Block ID : WC-DIST-BLOCK-1 **Filter paper ID :** N/A **Prep Technician Signature:** RM

Weigh By : N/A **pH Meter ID :** N/A **Supervisor Signature:** 12

Standared Name	MLS USED	STD REF. # FROM LOG
LCSW	1.0ML	WP109632
PBW	50.0ML	W3112
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Chemical Used	ML/SAMPLE USED	Lot Number
pH Paper 0-14	N/A	W3104
CONC H2SO4	N/A	M5673
KI-starch paper	N/A	W2965
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

N/A

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
09/19/2024 11:30	RM (WC)	RM (WC)
	Preparation Group	**Analysis Group**

Alliance TECHNICAL GROUP

Water Phenolics Preparation Sheet

PB163450

Lab Sample ID	Client Sample ID	Initial Vol (ml)	Final Vol (ml)	pH	Sulfide	Oxidizing	Nitrate/ Nitrite	Comment	Prep Pos
P3848-25	PT-PHEN-WP	50	50	<2	N/A	Negative	N/A	N/A	N/A
PB163450BL	PBW450	50	50	<2	N/A	Negative	N/A	N/A	N/A
PB163450BS	LCS450	50	50	<2	N/A	Negative	N/A	N/A	N/A

WORKLIST(Hardcopy Internal Chain)

WorkList Name : PHE-9-24 **WorkList ID :** 183642 **Department :** Distillation **Date :** 09-19-2024 08:11:49

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P3848-25	PT-PHEN-WP	Water	Phenolics	Conc H2SO4 to pH < 2	CHEM02	QA Of	09/03/2024	9065

Date/Time 09/19/2024 08:15
Raw Sample Received by: RM (WC)
Raw Sample Relinquished by: SJ (QC Office)

Date/Time N/A
Raw Sample Received by: 4
Raw Sample Relinquished by: 4

Alliance TECHNICAL GROUP

Water Ammonia Preparation Sheet

PB163477

SOP ID : MSM4500-NH3 B,G-Ammonia-17

SDG No : N/A

Matrix : WATER

Pippete ID : WC

Balance ID : N/A

Hood ID : HOOD#2

Block ID : WC-DIST-BLOCK-1

Weigh By : N/A

Start Digest Date: 09/17/2024 **Time :** 13:35 **Temp :** 150 °C

End Digest Date: 09/17/2024 **Time :** 14:35 **Temp :** 160 °C

Digestion tube ID : M5595

Filter paper ID : N/A

pH Meter ID : N/A

Block Thermometer ID : WC CYANIDE

Prep Technician Signature: RM

Supervisor Signature: 12

Standared Name	MLS USED	STD REF. # FROM LOG
LCSW	1.0ML	WP109317
MS/MSD SPIKE SOL.	1.0ML	WP109316
PBW	50.0ML	W3112
RL CHECK	0.1ML	WP109316
N/A	N/A	N/A

Chemical Used	ML/SAMPLE USED	Lot Number
BORATE BUFFER	2.5ML	WP108708
NAOH 6N	0.5-2.0ML	WP108660
H2SO4 0.04N	5.0ML	WP107527
pH strip-Ammonia	N/A	W3133
KI-starch paper	N/A	W2965
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

ALL GLASSWEAR ARE STEAMED OUT AND THERE WERE NO TRACE OF AMMONIA USING NESLER REAGENT
WP108814

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
09/17/2024 . 14.50	RM (WC)	RM (WC)
	Preparation Group	Analysis Group

Alliance TECHNICAL GROUP

Water Ammonia Preparation Sheet

PB163477

Lab Sample ID	Client Sample ID	Initial Vol (ml)	Final Vol (ml)	pH	Sulfide	Oxidizing	Nitrate/ Nitrite	Comment	Prep Pos
P3848-11	PT-NUT1-WP	50	50	<2	N/A	Negative	N/A	AFTER ADDING 6N NAOH PH IS 9.5	N/A
P4085-05	PURGE-WATER	50	50	<2	N/A	Negative	N/A	AFTER ADDING 6N NAOH PH IS 9.5	N/A
P4085-05DUP	PURGE-WATERDUP	50	50	<2	N/A	Negative	N/A	AFTER ADDING 6N NAOH PH IS 9.5	N/A
P4085-05MS	PURGE-WATERMS	50	50	<2	N/A	Negative	N/A	AFTER ADDING 6N NAOH PH IS 9.5	N/A
P4085-05MSD	PURGE-WATERMSD	50	50	<2	N/A	Negative	N/A	AFTER ADDING 6N NAOH PH IS 9.5	N/A
PB163477BL	PBW477	50	50	<2	N/A	Negative	N/A	AFTER ADDING 6N NAOH PH IS 9.5	N/A
PB163477BS	LCS477	50	50	<2	N/A	Negative	N/A	AFTER ADDING 6N NAOH PH IS 9.5	N/A

WORKLIST(Hardcopy Internal Chain)

WorkList Name : amonia-9-17 **WorkList ID :** 183575 **Department :** Distillation **Date :** 09-17-2024 13:09:13

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P3848-11	PT-NUT1-WP	Water	Ammonia	Conc H2SO4 to pH < 2	CHEM02	QA Of	09/03/2024	SM4500-NH3
P4085-05	PURGE-WATER	Water	Ammonia	Conc H2SO4 to pH < 2	PSEG03	H53	09/17/2024	SM4500-NH3

Date/Time 09/17/2024 13:00
Raw Sample Received by: RM (WC)
Raw Sample Relinquished by: JP (COC)

Date/Time 09/17/2024 13:45
Raw Sample Received by: JP (COC)
Raw Sample Relinquished by: RM (WC)

Alliance TECHNICAL GROUP

Water Cyanide Preparation Sheet

PB163628

SOP ID : M9012B-Total, Amenable and Reactive Cyanide-20

SDG No : N/A

Start Digest Date: 09/24/2024 **Time :** 11:00 **Temp :** 123 °C

Matrix : WATER

End Digest Date: 09/24/2024 **Time :** 12:30 **Temp :** 127 °C

Pippete ID : WC

Balance ID : N/A

Hood ID : HOOD#1 **Digestion tube ID :** M5595 **Block Thermometer ID :** WC CYANIDE

Block ID : MC-1, MC-2 **Filter paper ID :** N/A **Prep Technician Signature:** TP

Weigh By : N/A **pH Meter ID :** N/A **Supervisor Signature:** 12

Standared Name	MLS USED	STD REF. # FROM LOG
LCSW	1.00ML	WP109549
PBW	50.0ML	W3112
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Chemical Used	ML/SAMPLE USED	Lot Number
0.25N NaOH	50ML	WP108640
50% v/v H2SO4	5.0ML	WP108076
51% w/v MgCL2	2.0ML	WP108075
pH Paper 0-14	N/A	W3121
Nitrate/Nitrite Strip	N/A	W3101
Lead Acetate strip	N/A	W3134
KI-starch paper	N/A	W2965
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

LAB SAMPLE ID	CLIENT SAMPLE ID	Wt(g)/Vol(ml)	Comment
S0	S0	N/A	N/A
S5.0	S5.0	N/A	N/A
S10.0	S10.0	N/A	N/A
S100.0	S100.0	N/A	N/A
S250.0	S250.0	N/A	N/A
S500.0	S500.0	N/A	N/A
ICV	ICV	N/A	AS PER PB163619
ICB	ICB	N/A	N/A
CCV	CCV	N/A	N/A
CCB	CCB	N/A	N/A
Midrange	Midrange	N/A	N/A
HIGHSTD	HIGHSTD	N/A	AS PER PB163619
LOWSTD	LOWSTD	N/A	AS PER PB163619

Extraction Conformance/Non-Conformance Comments:

N/A

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
09.24.2024, 12:45	TP / (WC)	NF(WC)
	Preparation Group	Analysis Group

Alliance TECHNICAL GROUP

Water Cyanide Preparation Sheet

PB163628

Lab Sample ID	Client Sample ID	Initial Vol (ml)	Final Vol (ml)	pH	Sulfide	Oxidizing	Nitrate/ Nitrite	Comment	Prep Pos
P3848-23	PT-CN-WP	50	50	>12	Negative	Negative	Negative	N/A	N/A
PB163628BL	PBW628	50	50	>12	Negative	Negative	Negative	N/A	N/A
PB163628BS	LCS628	50	50	>12	Negative	Negative	Negative	N/A	N/A

WORKLIST(Hardcopy Internal Chain)

WorkList Name : CN PT- 09242024 **WorkList ID :** 183811 **Department :** Distillation **Date :** 09-24-2024 09:56:10

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P3848-23	PT-CN-WP	Water	Cyanide	10 N NaOH to pH >12	CHEM02	QA Of	09/03/2024	9012B

Date/Time 09·24·2024, 09:30
Raw Sample Received by: NF (WC)
Raw Sample Relinquished by: SJ (QAO)

Date/Time NA
Raw Sample Received by:
Raw Sample Relinquished by:

Alliance TECHNICAL GROUP

Water Cyanide Preparation Sheet

PB163632

SOP ID : M9012B-Total, Amenable and Reactive Cyanide-20

SDG No : N/A

Start Digest Date: 09/24/2024 **Time :** 11:00 **Temp :** 123 °C

Matrix : WATER

End Digest Date: 09/24/2024 **Time :** 12:30 **Temp :** 127 °C

Pippete ID : WC

Balance ID : N/A

Hood ID : HOOD#1 **Digestion tube ID :** M5595 **Block Thermometer ID :** WC CYANIDE

Block ID : MC-1, MC-2 **Filter paper ID :** N/A **Prep Technician Signature:** JP

Weigh By : N/A **pH Meter ID :** N/A **Supervisor Signature:** 12

Standared Name	MLS USED	STD REF. # FROM LOG
LCSW	1ML	WP109549
MS/MSD SPIKE SOL.	0.40ML	WP108641
PBW	50ML	W3112
N/A	N/A	N/A
N/A	N/A	N/A

Chemical Used	ML/SAMPLE USED	Lot Number
0.25N NaOH	50ML	WP108640
50% v/v H2SO4	5ML	WP108076
51% w/v MgCL2	2ML	WP108075
pH Paper 0-14	N/A	W3121
Nitrate/Nitrite Strip	N/A	W3101
Lead Acetate strip	N/A	W3134
KI-starch paper	N/A	W2965
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

LAB SAMPLE ID	CLIENT SAMPLE ID	Wt(g)/Vol(ml)	Comment
S0	S0	N/A	N/A
S5.0	S5.0	N/A	N/A
S10.0	S10.0	N/A	N/A
S100.0	S100.0	N/A	N/A
S250.0	S250.0	N/A	N/A
S500.0	S500.0	N/A	N/A
ICV	ICV	0.5ML	W3011
ICB	ICB	N/A	N/A
CCV	CCV	N/A	N/A
CCB	CCB	N/A	N/A
Midrange	Midrange	2.5ML	WP108641
HIGHSTD	HIGHSTD	N/A	N/A
LOWSTD	LOWSTD	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

N/A

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
09.24.2024, 12:45	JP / WC	NF(WC)
	Preparation Group	Analysis Group

Alliance TECHNICAL GROUP

Water Cyanide Preparation Sheet

PB163632

Lab Sample ID	Client Sample ID	Initial Vol (ml)	Final Vol (ml)	pH	Sulfide	Oxidizing	Nitrate/ Nitrite	Comment	Prep Pos
P3848-22	PT-CN-WP	50	50	>12	Negative	Negative	Negative	N/A	N/A
P3965-02	EFF-DAY-1-1-4CN	50	50	>12	Negative	Negative	Negative	N/A	N/A
P3965-02DUP	EFF-DAY-1-1-4CNDUP	50	50	>12	Negative	Negative	Negative	N/A	N/A
P3965-02MS	EFF-DAY-1-1-4CNMS	50	50	>12	Negative	Negative	Negative	N/A	N/A
P3965-02MSD	EFF-DAY-1-1-4CNMSD	50	50	>12	Negative	Negative	Negative	N/A	N/A
PB163632BL	PBW632	50	50	>12	Negative	Negative	Negative	N/A	N/A
PB163632BS	LCS632	50	50	>12	Negative	Negative	Negative	N/A	N/A

WORKLIST(Hardcopy Internal Chain)

WorkList Name : CN PT-09242024 **WorkList ID :** 183810 **Department :** Distillation **Date :** 09-24-2024 09:56:05

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P3848-22	PT-CN-WP	Water	Cyanide	10 N NaOH to pH >12	CHEM02	QA Of	09/03/2024	SM4500-CN C
P3965-02	EFF-DAY-1-1-4CN	Water	Cyanide	1:1 NaOH to pH >12	F&GE01	I51	09/17/2024	SM4500-CN C

Date/Time 09.24.2024, 10:00
Raw Sample Received by: [signature]
Raw Sample Relinquished by: [signature]

Date/Time 09.24.2024, 12:00
Raw Sample Received by: [signature]
Raw Sample Relinquished by: [signature]

Alliance TECHNICAL GROUP

Water Cyanide Preparation Sheet

PB163640

SOP ID : M9010C-Total, Amenable and Reactive Cyanide-19

SDG No : N/A

Start Digest Date: 09/24/2024 **Time :** 11:00 **Temp :** N/A

Matrix : WATER

End Digest Date: 09/24/2024 **Time :** 12:30 **Temp :** N/A

Pippete ID : WC

Balance ID : N/A

Hood ID : HOOD#1 **Digestion tube ID :** M5595 **Block Thermometer ID :** WC CYANIDE

Block ID : MC-1, MC-2 **Filter paper ID :** N/A **Prep Technician Signature:** JP

Weigh By : N/A **pH Meter ID :** N/A **Supervisor Signature:** 12

Standared Name	MLS USED	STD REF. # FROM LOG
LCSW	1ML	WP109549
MS/MSD SPIKE SOL.	0.40ML	WP108641
PBW	50ML	W3112
N/A	N/A	N/A
N/A	N/A	N/A

Chemical Used	ML/SAMPLE USED	Lot Number
0.25N NaOH	50ML	WP108640
50% v/v H2SO4	5ML	WP108076
51% w/v MgCL2	2ML	WP108075
pH Paper 0-14	N/A	W3121
Nitrate/Nitrite Strip	N/A	W3101
Lead Acetate strip	N/A	W3134
KI-starch paper	N/A	W2965
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

LAB SAMPLE ID	CLIENT SAMPLE ID	Wt(g)/Vol(ml)	Comment
S0	S0	N/A	N/A
S5.0	S5.0	N/A	N/A
S10.0	S10.0	N/A	N/A
S100.0	S100.0	N/A	N/A
S250.0	S250.0	N/A	N/A
S500.0	S500.0	N/A	N/A
ICV	ICV	N/A	AS PER PB163619
ICB	ICB	N/A	N/A
CCV	CCV	N/A	N/A
CCB	CCB	N/A	N/A
Midrange	Midrange	N/A	N/A
HIGHSTD	HIGHSTD	N/A	AS PER PB163619
LOWSTD	LOWSTD	N/A	AS PER PB163619

Extraction Conformance/Non-Conformance Comments:

N/A

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
09.24.2024, 12:45	JP (GC)	NF(WC)
	Preparation Group	Analysis Group

Alliance TECHNICAL GROUP

Water Cyanide Preparation Sheet

PB163640

Lab Sample ID	Client Sample ID	Initial Vol (ml)	Final Vol (ml)	pH	Sulfide	Oxidizing	Nitrate/ Nitrite	Comment	Prep Pos
P3848-24	PT-CN-WP	50	50	>12	Negative	Negative	Negative	N/A	N/A
PB163640BL	PBW640	50	50	>12	Negative	Negative	Negative	N/A	N/A
PB163640BS	LCS640	50	50	>12	Negative	Negative	Negative	N/A	N/A

WORKLIST(Hardcopy Internal Chain)

WorkList Name : CN PT -09242024 **WorkList ID :** 183819 **Department :** Distillation **Date :** 09-24-2024 09:45:14

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P3848-24	PT-CN-WP	Water	Cyanide	10 N NaOH to pH >12	CHEM02	QA Of	09/03/2024	9014

Date/Time 09.24.2024, 09:30
Raw Sample Received by: NF (WC)
Raw Sample Relinquished by: SJ (QAO)

Date/Time NA
Raw Sample Received by: "
Raw Sample Relinquished by: "

Alliance TECHNICAL GROUP

Water Sulfide Preparation Sheet

PB163761

SOP ID : M9034-SM4500 S F-Sulfide-15

SDG No : N/A

Start Digest Date: 09/30/2024 **Time :** 09:20 **Temp :** 70 °C

Matrix : WATER

End Digest Date: 09/30/2024 **Time :** 12:20 **Temp :** 70 °C

Pippete ID : WC

Balance ID : N/A

Hood ID : HOOD#1 **Digestion tube ID :** M5595 **Block Thermometer ID :** N/A

Block ID : MC-1,MC-2 **Filter paper ID :** N/A **Prep Technician Signature:** RM

Weigh By : N/A **pH Meter ID :** N/A **Supervisor Signature:** IZ

Standared Name	MLS USED	STD REF. # FROM LOG
LCSW	1.25ML	WP109965
PBW	50.0ML	W3112
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Chemical Used	ML/SAMPLE USED	Lot Number
0.5M ZINC ACETATE	5.0ML	WP108780
FORMALDEHYDE	2.0ML	W2725
CONC H2SO4	N/A	M5673
pH Paper 0-14	N/A	W3104
KI-starch paper	N/A	W2965
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Extraction Conformance/Non-Conformance Comments: 09/30/2024 RM

N/A

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
	Preparation Group	Analysis Group

Alliance TECHNICAL GROUP

Water Sulfide Preparation Sheet

PB163761

Lab Sample ID	Client Sample ID	Initial Vol (ml)	Final Vol (ml)	pH	Sulfide	Oxidizing	Nitrate/ Nitrite	Comment	Prep Pos
P3848-29	PT-S2-WP	50	50	>12	N/A	Negative	N/A	N/A	N/A
P4180-21	5602-75-001-NEUTRALIZATION-OUTFALL	50	50	>12	N/A	Negative	N/A	N/A	N/A
P4180-21DUP	5602-75-001-NEUTRALIZATION-OUTFALLDUP	50	50	>12	N/A	Negative	N/A	N/A	N/A
P4180-21MS	5602-75-001-NEUTRALIZATION-OUTFALLMS	50	50	>12	N/A	Negative	N/A	N/A	N/A
P4180-21MSD	5602-75-001-NEUTRALIZATION-OUTFALLMSD	50	50	>12	N/A	Negative	N/A	N/A	N/A
PB163761BL	PBW761	50	50	>12	N/A	Negative	N/A	N/A	N/A
PB163761BS	LCS761	50	50	>12	N/A	Negative	N/A	N/A	N/A

WORKLIST(Hardcopy Internal Chain)

WorkList Name : SULFIDE-9-24* **WorkList ID :** 183916 **Department :** Wet-Chemistry **Date :** 09-27-2024 16:00:04

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P3848-29	PT-S2-WP	Water	Sulfide	Zinc acetate and 6N NaOH tCHEM02		QA Of	09/03/2024	9034
P4180-21	5602-75-001-NEUTRALIZATIOI	Water	Sulfide	Zinc acetate and 6N NaOH tSCIE01		J41	09/24/2024	9034

Date/Time 09/30/2024 09.00

Raw Sample Received by: RM (WC)

Raw Sample Relinquished by: [signature] (WC)

Date/Time 09/30/2024 09.30

Raw Sample Received by: [signature] (WC)

Raw Sample Relinquished by: RM (WC)

Alliance TECHNICAL GROUP

Water Sulfide Preparation Sheet

PB163762

SOP ID : M9034-SM4500 S F-Sulfide-15

SDG No : N/A

Start Digest Date: 09/30/2024 **Time :** 09:20 **Temp :** 70 °C

Matrix : WATER

End Digest Date: 09/30/2024 **Time :** 12:20 **Temp :** 70 °C

Pippete ID : WC

Balance ID : N/A

Hood ID : HOOD#1 **Digestion tube ID :** M5595 **Block Thermometer ID :** WC CYANIDE

Block ID : MC-1,MC-2 **Filter paper ID :** N/A **Prep Technician Signature:** RM

Weigh By : N/A **pH Meter ID :** N/A **Supervisor Signature:** IZ

Standared Name	MLS USED	STD REF. # FROM LOG
LCSW	1.25ML	WP109965
PBW	50.0ML	W3112
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Chemical Used	ML/SAMPLE USED	Lot Number
0.5M ZINC ACETATE	5.0ML	WP108780
FORMALDEHYDE	2.0ML	W2725
CONC H2SO4	N/A	M5673
pH Paper 0-14	N/A	W3104
KI-starch paper	N/A	W2965
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

09/30/2024 RM

Extraction Conformance/Non-Conformance Comments:

N/A

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
	Preparation Group	Analysis Group

Alliance TECHNICAL GROUP

Water Sulfide Preparation Sheet

PB163762

Lab Sample ID	Client Sample ID	Initial Vol (ml)	Final Vol (ml)	pH	Sulfide	Oxidizing	Nitrate/ Nitrite	Comment	Prep Pos
P3848-28	PT-S2-WP	50	50	>12	N/A	Negative	N/A	N/A	N/A
PB163762BL	PBW762	50	50	>12	N/A	Negative	N/A	N/A	N/A
PB163762BS	LCS762	50	50	>12	N/A	Negative	N/A	N/A	N/A

WORKLIST(Hardcopy Internal Chain)

WorkList Name : SULFIDE-09-24* **WorkList ID :** 183917 **Department :** Wet-Chemistry **Date :** 09-27-2024 16:00:27

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P3848-28	PT-S2-WP	Water	Sulfide	Zinc acetate and 6N NaOH tCHEM02	QA Of		09/03/2024	SM4500 S Eor

Date/Time 09/30/2024 09:00

Raw Sample Received by: RM (WC)

Raw Sample Relinquished by: SJ (QC office)

Date/Time NA

Raw Sample Received by: 11

Raw Sample Relinquished by: 4

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Instrument ID: SPECTROPHOTOMETER-1

Daily Analysis Runlog For Sequence/QCBatch ID # LB132300

Review By	Niha	Review On	9/16/2024 5:07:43 PM
Supervise By	Iwona	Supervise On	9/17/2024 9:43:06 AM
SubDirectory	LB132300	Test	Residual Chlorine

STD. NAME	STD REF.#
ICAL Standard	N/A
ICV Standard	N/A
CCV Standard	N/A
ICSA Standard	N/A
CRI Standard	N/A
LCS Standard	N/A
Chk Standard	WP109735,WP109730,WP109731,WP109732,WP109729,WP109733,WP109734,W2815

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	CAL1	CAL1	CAL	09/16/24 16:00		Niha	OK
2	CAL2	CAL2	CAL	09/16/24 16:03		Niha	OK
3	CAL3	CAL3	CAL	09/16/24 16:06		Niha	OK
4	CAL4	CAL4	CAL	09/16/24 16:09		Niha	OK
5	CAL5	CAL5	CAL	09/16/24 16:12		Niha	OK
6	CAL6	CAL6	CAL	09/16/24 16:15		Niha	OK
7	ICV	ICV	ICV	09/16/24 16:18		Niha	OK
8	ICB	ICB	ICB	09/16/24 16:21		Niha	OK
9	CCV1	CCV1	CCV	09/16/24 16:24		Niha	OK
10	CCB1	CCB1	CCB	09/16/24 16:27		Niha	OK
11	LB132300BL	LB132300BL	MB	09/16/24 16:30		Niha	OK
12	LB132300BS	LB132300BS	LCS	09/16/24 16:33		Niha	OK
13	P3848-19	PT-CL-WP	SAM	09/16/24 16:36		Niha	OK
14	CCV2	CCV2	CCV	09/16/24 16:39		Niha	OK
15	CCB2	CCB2	CCB	09/16/24 16:42		Niha	OK

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Instrument ID: DO METER

Daily Analysis Runlog For Sequence/QCBatch ID # LB132394

Review By	rubina	Review On	9/23/2024 2:58:49 PM
Supervise By	Iwona	Supervise On	9/23/2024 3:33:32 PM
SubDirectory	LB132394	Test	CBOD5

STD. NAME	STD REF.#
ICAL Standard	N/A
ICV Standard	N/A
CCV Standard	N/A
ICSA Standard	N/A
CRI Standard	N/A
LCS Standard	N/A
Chk Standard	WP109680,W2977,WP108475,W3103,W3109,W3105,WP109682,WP109681,WP108662

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	LB132394BL	LB132394BL	MB	09/12/24 17:10		rubina	OK
2	LB132394BS	LB132394BS	LCS	09/12/24 17:10		rubina	OK
3	LB132394BSD1	LB132394BSD1	LCS	09/12/24 17:10		rubina	OK
4	LB132394BSD2	LB132394BSD2	LCS	09/12/24 17:10		rubina	OK
5	P3848-03	PT-DEM-WP	SAM	09/12/24 17:10		rubina	OK
6	P3848-03DUP	PT-DEM-WPDUP	DUP	09/12/24 17:10		rubina	OK
7	P3940-01	AST-2024-4036-PRIM	SAM	09/12/24 17:10		rubina	OK

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Instrument ID: DO METER

Daily Analysis Runlog For Sequence/QCBatch ID # LB132404

Review By	rubina	Review On	9/23/2024 2:52:20 PM
Supervise By	Iwona	Supervise On	9/23/2024 3:38:33 PM
SubDirectory	LB132404	Test	BOD5

STD. NAME	STD REF.#
ICAL Standard	N/A
ICV Standard	N/A
CCV Standard	N/A
ICSA Standard	N/A
CRI Standard	N/A
LCS Standard	N/A
Chk Standard	WP109680,W2977,WP108475,W3103,W3109,W3105,WP109682,WP109681,WP108662

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	LB132404BL	LB132404BL	MB	09/12/24 17:10		rubina	OK
2	LB132404BS	LB132404BS	LCS	09/12/24 17:10		rubina	OK
3	P3848-03	PT-DEM-WP	SAM	09/12/24 17:10		rubina	OK
4	P3937-02	COMP	SAM	09/12/24 17:10		rubina	OK
5	P3937-02DUP	COMPDUP	DUP	09/12/24 17:10		rubina	OK
6	P3977-01	DRAIN-WATER-TANK	SAM	09/12/24 17:10		rubina	OK

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Instrument ID: SPECTROPHOTOMETER-1

Daily Analysis Runlog For Sequence/QCBatch ID # LB132412

Review By	Niha	Review On	9/13/2024 9:05:12 AM
Supervise By	Iwona	Supervise On	9/13/2024 10:19:51 AM
SubDirectory	LB132412	Test	Phosphorus-Total

STD. NAME	STD REF.#
ICAL Standard	N/A
ICV Standard	N/A
CCV Standard	N/A
ICSA Standard	N/A
CRI Standard	N/A
LCS Standard	N/A
Chk Standard	WP109586,WP109585,WP109584,WP109583,WP109582,WP109581,WP109588,WP109669,WP108727,WP108662

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	CAL1	CAL1	CAL	09/12/24 16:00		Niha	OK
2	CAL2	CAL2	CAL	09/12/24 16:00		Niha	OK
3	CAL3	CAL3	CAL	09/12/24 16:01		Niha	OK
4	CAL4	CAL4	CAL	09/12/24 16:01		Niha	OK
5	CAL5	CAL5	CAL	09/12/24 16:02		Niha	OK
6	CAL6	CAL6	CAL	09/12/24 16:02		Niha	OK
7	ICV	ICV	ICV	09/12/24 16:03		Niha	OK
8	ICB	ICB	ICB	09/12/24 16:03		Niha	OK
9	CCV1	CCV1	CCV	09/12/24 16:04		Niha	OK
10	CCB1	CCB1	CCB	09/12/24 16:04		Niha	OK
11	RL Check	RL Check	SAM	09/12/24 16:05		Niha	OK
12	PB163343BL	PB163343BL	MB	09/12/24 16:05		Niha	OK
13	PB163343BS	PB163343BS	LCS	09/12/24 16:06		Niha	OK
14	P3848-13	PT-NUT2-WP	SAM	09/12/24 16:06		Niha	OK
15	P3901-01	EFFLUENT	SAM	09/12/24 16:07		Niha	OK
16	P3940-01	AST-2024-4036-PRIM	SAM	09/12/24 16:07		Niha	OK
17	P3940-01DUP	AST-2024-4036-PRIM	DUP	09/12/24 16:08		Niha	OK
18	P3940-01MS	AST-2024-4036-PRIM	MS	09/12/24 16:08		Niha	OK

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Instrument ID: SPECTROPHOTOMETER-1

Daily Analysis Runlog For Sequence/QCBatch ID # LB132412

Review By	Niha	Review On	9/13/2024 9:05:12 AM
Supervise By	Iwona	Supervise On	9/13/2024 10:19:51 AM
SubDirectory	LB132412	Test	Phosphorus-Total

STD. NAME	STD REF.#
ICAL Standard	N/A
ICV Standard	N/A
CCV Standard	N/A
ICSA Standard	N/A
CRI Standard	N/A
LCS Standard	N/A
Chk Standard	WP109586,WP109585,WP109584,WP109583,WP109582,WP109581,WP109588,WP109669,WP108727,WP108662

19	P3940-01MSD	AST-2024-4036-PRIM	MSD	09/12/24 16:08		Niha	OK
20	P3848-13DL	PT-NUT2-WPDL	SAM	09/12/24 16:09		Niha	OK
21	CCV2	CCV2	CCV	09/12/24 16:09		Niha	OK
22	CCB2	CCB2	CCB	09/12/24 16:10		Niha	OK

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Instrument ID: IMHOFF CONE

Daily Analysis Runlog For Sequence/QCBatch ID # LB132417

Review By	Niha	Review On	9/13/2024 1:43:06 PM
Supervise By	Iwona	Supervise On	9/13/2024 1:51:07 PM
SubDirectory	LB132417	Test	Settleable Solids

STD. NAME	STD REF.#
ICAL Standard	N/A
ICV Standard	N/A
CCV Standard	N/A
ICSA Standard	N/A
CRI Standard	N/A
LCS Standard	N/A
Chk Standard	N/A

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	P3848-30	PT-SSOL-WP	SAM	09/13/24 13:15		Niha	OK

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Instrument ID: WC CONDUCTANCE METER-1

Daily Analysis Runlog For Sequence/QCBatch ID # LB132418

Review By	Niha	Review On	9/13/2024 1:33:48 PM
Supervise By	Iwona	Supervise On	9/13/2024 1:50:53 PM
SubDirectory	LB132418	Test	Conductance

STD. NAME	STD REF.#
ICAL Standard	N/A
ICV Standard	N/A
CCV Standard	N/A
ICSA Standard	N/A
CRI Standard	N/A
LCS Standard	N/A
Chk Standard	WP107551

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	LB132418BL	LB132418BL	MB	09/13/24 12:30		Niha	OK
2	LB132418BS	LB132418BS	LCS	09/13/24 12:35		Niha	OK
3	P3848-09	PT-COND-WP	SAM	09/13/24 12:40		Niha	OK

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Instrument ID: WC CONDUCTANCE METER-1

Daily Analysis Runlog For Sequence/QCBatch ID # LB132419

Review By	Niha	Review On	9/13/2024 1:33:21 PM
Supervise By	Iwona	Supervise On	9/13/2024 1:50:26 PM
SubDirectory	LB132419	Test	Conductance

STD. NAME	STD REF.#
ICAL Standard	N/A
ICV Standard	N/A
CCV Standard	N/A
ICSA Standard	N/A
CRI Standard	N/A
LCS Standard	N/A
Chk Standard	WP107551

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	LB132419BL	LB132419BL	MB	09/13/24 12:30		Niha	OK
2	LB132419BS	LB132419BS	LCS	09/13/24 12:35		Niha	OK
3	P3848-08	PT-COND-WP	SAM	09/13/24 12:40		Niha	OK

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Instrument ID: WC CONDUCTANCE METER-1

Daily Analysis Runlog For Sequence/QCBatch ID # LB132420

Review By	Niha	Review On	9/13/2024 1:32:42 PM
Supervise By	Iwona	Supervise On	9/13/2024 1:50:04 PM
SubDirectory	LB132420	Test	Conductance

STD. NAME	STD REF.#
ICAL Standard	N/A
ICV Standard	N/A
CCV Standard	N/A
ICSA Standard	N/A
CRI Standard	N/A
LCS Standard	N/A
Chk Standard	WP107551

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	LB132420BL	LB132420BL	MB	09/13/24 12:30		Niha	OK
2	LB132420BS	LB132420BS	LCS	09/13/24 12:35		Niha	OK
3	P3848-07	PT-COND-WP	SAM	09/13/24 12:40		Niha	OK

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Instrument ID: NESSLER TUBES

Daily Analysis Runlog For Sequence/QCBatch ID # LB132434

Review By	Niha	Review On	9/13/2024 4:03:02 PM
Supervise By	Iwona	Supervise On	9/13/2024 4:04:26 PM
SubDirectory	LB132434	Test	Color

STD. NAME	STD REF.#
ICAL Standard	N/A
ICV Standard	N/A
CCV Standard	N/A
ICSA Standard	N/A
CRI Standard	N/A
LCS Standard	N/A
Chk Standard	N/A

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	LB132434BL	LB132434BL	MB	09/13/24 15:00		Niha	OK
2	P3848-27	PT-COL-WP	SAM	09/13/24 15:05		Niha	OK

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Instrument ID: IC-2

Daily Analysis Runlog For Sequence/QCBatch ID # LB132464

Review By	Niha	Review On	9/19/2024 9:27:43 AM
Supervise By	Iwona	Supervise On	9/19/2024 9:54:24 AM
SubDirectory	LB132464	Test	Anions

STD. NAME	STD REF.#
ICAL Standard	WP109717,WP109718,WP109719,WP109720,WP109721,WP109722,WP109723
ICV Standard	WP109724
CCV Standard	WP109757
ICSA Standard	N/A
CRI Standard	N/A
LCS Standard	WP109758
Chk Standard	WP109725,WP109726

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	STD1	STD1	CAL1	09/16/24 11:39	All standards, samples, and	NF/IZ	OK
2	STD2	STD2	CAL2	09/16/24 12:00	QC are filtered through	NF/IZ	OK
3	STD3	STD3	CAL3	09/16/24 12:22	0.45um, filter lot W2865	NF/IZ	OK
4	STD4	STD4	CAL4	09/16/24 12:43		NF/IZ	OK
5	STD5	STD5	CAL5	09/16/24 13:05		NF/IZ	OK
6	STD6	STD6	CAL6	09/16/24 13:26		NF/IZ	OK
7	STD7	STD7	CAL7	09/16/24 13:47		NF/IZ	OK
8	ICV1	ICV1	ICV	09/16/24 15:00		NF/IZ	OK
9	ICB1	ICB1	ICB	09/16/24 15:21		NF/IZ	OK
10	CCV1	CCV1	CCV	09/17/24 10:31		NF/IZ	OK
11	CCB1	CCB1	CCB	09/17/24 10:52		NF/IZ	OK
12	LB132464BLW	LB132464BLW	MB	09/17/24 11:14		NF/IZ	OK
13	LB132464BSW	LB132464BSW	LCS	09/17/24 11:35		NF/IZ	OK
14	P3848-05	PT-MIN1-WP	SAM	09/17/24 12:03	CL,SO4 high	NF/IZ	Dilution
15	P3848-11	PT-NUT1-WP	SAM	09/17/24 12:25	NO3 high	NF/IZ	Dilution
16	P3848-15	PT-NUT3-WP	SAM	09/17/24 12:46		NF/IZ	OK
17	P3848-05DL	PT-MIN1-WPDL	SAM	09/17/24 13:08	Report 5X CL,SO4,Still CL high	NF/IZ	Dilution
18	P3848-05DL2	PT-MIN1-WPDL2	SAM	09/17/24 13:29	50X for CL	NF/IZ	Confirms

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Instrument ID: IC-2

Daily Analysis Runlog For Sequence/QCBatch ID # LB132464

Review By	Niha	Review On	9/19/2024 9:27:43 AM
Supervise By	Iwona	Supervise On	9/19/2024 9:54:24 AM
SubDirectory	LB132464	Test	Anions

STD. NAME	STD REF.#
ICAL Standard	WP109717,WP109718,WP109719,WP109720,WP109721,WP109722,WP109723
ICV Standard	WP109724
CCV Standard	WP109757
ICSA Standard	N/A
CRI Standard	N/A
LCS Standard	WP109758
Chk Standard	WP109725,WP109726

19	P3848-11DL	PT-NUT1-WPDL	SAM	09/17/24 13:51	5X for NO3	NF/IZ	Confirms
20	CCV2	CCV2	CCV	09/17/24 14:56		NF/IZ	OK
21	CCB2	CCB2	CCB	09/17/24 15:17		NF/IZ	OK
22	P4085-05	PURGE-WATER	SAM	09/17/24 15:38		NF/IZ	OK
23	P4085-05MS	PURGE-WATERMS	MS	09/17/24 16:00	9.5ml of sample, 0.5mL W3091	NF/IZ	OK
24	P4085-05MSD	PURGE-WATERMSD	MSD	09/17/24 16:21	9.5ml of sample, 0.5mL W3091	NF/IZ	OK
25	CCV3	CCV3	CCV	09/17/24 16:43		NF/IZ	OK
26	CCB3	CCB3	CCB	09/17/24 17:04		NF/IZ	OK

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Instrument ID: KONELAB

Daily Analysis Runlog For Sequence/QCBatch ID # LB132468

Review By	Niha	Review On	9/18/2024 5:05:49 PM
Supervise By	Iwona	Supervise On	9/19/2024 9:53:22 AM
SubDirectory	LB132468	Test	Nitrite

STD. NAME	STD REF.#
ICAL Standard	WP109760
ICV Standard	WP109762
CCV Standard	WP109761
ICSA Standard	N/A
CRI Standard	N/A
LCS Standard	WP109762
Chk Standard	WP109759

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	0.0000PPM	0.0000PPM	CAL1	09/17/24 15:17		Niha	OK
2	0.012PPM	0.012PPM	CAL2	09/17/24 15:17		Niha	OK
3	0.024PPM	0.024PPM	CAL3	09/17/24 15:17		Niha	OK
4	0.060PPM	0.060PPM	CAL4	09/17/24 15:17		Niha	OK
5	0.12PPM	0.12PPM	CAL5	09/17/24 15:17		Niha	OK
6	0.30PPM	0.30PPM	CAL6	09/17/24 15:17		Niha	OK
7	0.60PPM	0.60PPM	CAL7	09/17/24 15:17		Niha	OK
8	ICV1	ICV1	ICV	09/17/24 16:00		Niha	OK
9	ICB1	ICB1	ICB	09/17/24 16:01		Niha	OK
10	CCV1	CCV1	CCV	09/17/24 16:01		Niha	OK
11	CCB1	CCB1	CCB	09/17/24 16:01		Niha	OK
12	RL	RL	SAM	09/17/24 16:01		Niha	OK
13	LB132468BLW	LB132468BLW	MB	09/17/24 16:01		Niha	OK
14	LB132468BSW	LB132468BSW	LCS	09/17/24 16:04		Niha	OK
15	P3848-14	PT-NUT3-WP	SAM	09/17/24 16:04	High	Niha	Dilution
16	P3848-14DL	PT-NUT3-WPDL	SAM	09/17/24 16:04	Report 5X	Niha	Confirms
17	CCV2	CCV2	CCV	09/17/24 16:04		Niha	OK
18	CCB2	CCB2	CCB	09/17/24 16:05		Niha	OK

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Instrument ID: SPECTROPHOTOMETER-1

Daily Analysis Runlog For Sequence/QCBatch ID # LB132470

Review By	rubina	Review On	9/18/2024 12:20:46 PM
Supervise By	Iwona	Supervise On	9/18/2024 12:32:09 PM
SubDirectory	LB132470	Test	Hexavalent Chromium

STD. NAME	STD REF.#
ICAL Standard	N/A
ICV Standard	N/A
CCV Standard	N/A
ICSA Standard	N/A
CRI Standard	N/A
LCS Standard	N/A
Chk Standard	WP109752,WP109751,WP109749,WP109748,WP109756,WP107791,WP109750,WP109755,WP109753,WP109754

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	CAL1	CAL1	CAL	09/17/24 16:40		rubina	OK
2	CAL2	CAL2	CAL	09/17/24 16:41		rubina	OK
3	CAL3	CAL3	CAL	09/17/24 16:42		rubina	OK
4	CAL4	CAL4	CAL	09/17/24 16:43		rubina	OK
5	CAL5	CAL5	CAL	09/17/24 16:44		rubina	OK
6	CAL6	CAL6	CAL	09/17/24 16:45		rubina	OK
7	CAL7	CAL7	CAL	09/17/24 16:46		rubina	OK
8	ICV	ICV	ICV	09/17/24 16:47		rubina	OK
9	ICB	ICB	ICB	09/17/24 16:48		rubina	OK
10	CCV1	CCV1	CCV	09/17/24 16:49		rubina	OK
11	CCB1	CCB1	CCB	09/17/24 16:50		rubina	OK
12	RL Check	RL Check	SAM	09/17/24 16:51		rubina	OK
13	LB132470BL	LB132470BL	MB	09/17/24 16:52		rubina	OK
14	LB132470BS	LB132470BS	LCS	09/17/24 16:53		rubina	OK
15	P3848-01	PT-CR6-WP	SAM	09/17/24 16:54		rubina	OK
16	P4085-05	PURGE-WATER	SAM	09/17/24 16:55		rubina	OK
17	P4085-05DUP	PURGE-WATERDUP	DUP	09/17/24 16:56		rubina	OK
18	P4085-05MS	PURGE-WATERMS	MS	09/17/24 16:57	1ML WP108658+99.0ML SAMPLE	rubina	OK

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Instrument ID: SPECTROPHOTOMETER-1

Daily Analysis Runlog For Sequence/QCBatch ID # LB132470

Review By	rubina	Review On	9/18/2024 12:20:46 PM
Supervise By	lwona	Supervise On	9/18/2024 12:32:09 PM
SubDirectory	LB132470	Test	Hexavalent Chromium

STD. NAME	STD REF.#
ICAL Standard	N/A
ICV Standard	N/A
CCV Standard	N/A
ICSA Standard	N/A
CRI Standard	N/A
LCS Standard	N/A
Chk Standard	WP109752,WP109751,WP109749,WP109748,WP109756,WP107791,WP109750,WP109755,WP109753,WP109754

19	P4085-05MSD	PURGE-WATERMSD	MSD	09/17/24 16:58	1ML WP108658+99.0ML SAMPLE	rubina	OK
20	CCV2	CCV2	CCV	09/17/24 16:59		rubina	OK
21	CCB2	CCB2	CCB	09/17/24 17:00		rubina	OK

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Instrument ID: TITRAMETRIC

Daily Analysis Runlog For Sequence/QCBatch ID # LB132485

Review By	Niha	Review On	9/18/2024 1:39:51 PM
Supervise By	Iwona	Supervise On	9/18/2024 1:51:18 PM
SubDirectory	LB132485	Test	Chloride

STD. NAME	STD REF.#
ICAL Standard	N/A
ICV Standard	N/A
CCV Standard	N/A
ICSA Standard	N/A
CRI Standard	N/A
LCS Standard	N/A
Chk Standard	WP109766,WP109767,WP109326,W3095

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	LB132485BL	LB132485BL	MB	09/18/24 13:15		Niha	OK
2	LB132485BS	LB132485BS	LCS	09/18/24 13:18		Niha	OK
3	P3848-05	PT-MIN1-WP	SAM	09/18/24 13:21		Niha	OK

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Instrument ID: KONELAB

Daily Analysis Runlog For Sequence/QCBatch ID # LB132486

Review By	rubina	Review On	9/19/2024 11:57:18 AM
Supervise By	Iwona	Supervise On	9/19/2024 11:58:07 AM
SubDirectory	LB132486	Test	Ammonia

STD. NAME	STD REF.#
ICAL Standard	WP109768
ICV Standard	WP109770
CCV Standard	WP109769
ICSA Standard	N/A
CRI Standard	N/A
LCS Standard	WP109317
Chk Standard	WP108309,WP108741,WP108709,WP108840

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	0.0PPM	0.0PPM	CAL1	09/18/24 10:17		rubina	OK
2	0.1PPM	0.1PPM	CAL2	09/18/24 10:17		rubina	OK
3	0.2PPM	0.2PPM	CAL3	09/18/24 10:17		rubina	OK
4	0.4PPM	0.4PPM	CAL4	09/18/24 10:17		rubina	OK
5	1.0PPM	1.0PPM	CAL5	09/18/24 10:17		rubina	OK
6	1.3PPM	1.3PPM	CAL6	09/18/24 10:17		rubina	OK
7	2.0PPM	2.0PPM	CAL7	09/18/24 10:17		rubina	OK
8	ICV1	ICV1	ICV	09/18/24 11:09		rubina	OK
9	ICB1	ICB1	ICB	09/18/24 11:09		rubina	OK
10	CCV1	CCV1	CCV	09/18/24 11:09		rubina	OK
11	CCB1	CCB1	CCB	09/18/24 11:09		rubina	OK
12	RL	RL	SAM	09/18/24 11:09		rubina	OK
13	PB163477BL	PB163477BL	MB	09/18/24 11:09		rubina	OK
14	PB163477BS	PB163477BS	LCS	09/18/24 11:19		rubina	OK
15	P3848-11	PT-NUT1-WP	SAM	09/18/24 11:19	High	rubina	Dilution
16	P4085-05	PURGE-WATER	SAM	09/18/24 11:30		rubina	OK
17	P4085-05DUP	PURGE-WATERDUP	DUP	09/18/24 11:30		rubina	OK
18	P4085-05MS	PURGE-WATERMS	MS	09/18/24 11:30		rubina	OK

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Instrument ID: KONELAB

Daily Analysis Runlog For Sequence/QCBatch ID # LB132486

Review By	rubina	Review On	9/19/2024 11:57:18 AM
Supervise By	Iwona	Supervise On	9/19/2024 11:58:07 AM
SubDirectory	LB132486	Test	Ammonia

STD. NAME	STD REF.#
ICAL Standard	WP109768
ICV Standard	WP109770
CCV Standard	WP109769
ICSA Standard	N/A
CRI Standard	N/A
LCS Standard	WP109317
Chk Standard	WP108309,WP108741,WP108709,WP108840

19	P4085-05MSD	PURGE-WATERMSD	MSD	09/18/24 11:30		rubina	OK
20	CCV2	CCV2	CCV	09/18/24 11:39		rubina	OK
21	CCB2	CCB2	CCB	09/18/24 11:39		rubina	OK
22	P3848-11DL	PT-NUT1-WPDL	SAM	09/18/24 12:07	Report 5X	rubina	Confirms
23	CCV3	CCV3	CCV	09/18/24 12:07		rubina	OK
24	CCB3	CCB3	CCB	09/18/24 12:07		rubina	OK

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Instrument ID: TITRATOR

Daily Analysis Runlog For Sequence/QCBatch ID # LB132487

Review By	Niha	Review On	9/20/2024 9:26:37 AM
Supervise By	Iwona	Supervise On	9/20/2024 10:13:39 AM
SubDirectory	LB132487	Test	Alkalinity

STD. NAME	STD REF.#
ICAL Standard	N/A
ICV Standard	N/A
CCV Standard	N/A
ICSA Standard	N/A
CRI Standard	N/A
LCS Standard	WP109779
Chk Standard	W2988,W3107,W3071

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	LB132487BLW	LB132487BLW	MB	09/19/24 10:36	pH=3.87	Niha	OK
2	LB132487BSW	LB132487BSW	LCS	09/19/24 10:41	pH=4.38	Niha	OK
3	P3848-05	PT-MIN1-WP	SAM	09/19/24 10:48	pH=4.26	Niha	OK

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Instrument ID: IC-2

Daily Analysis Runlog For Sequence/QCBatch ID # LB132492

Review By	Niha	Review On	9/19/2024 9:24:34 AM
Supervise By	Iwona	Supervise On	9/19/2024 9:53:48 AM
SubDirectory	LB132492	Test	Anions

STD. NAME	STD REF.#
ICAL Standard	WP109717,WP109718,WP109719,WP109720,WP109721,WP109722,WP109723
ICV Standard	WP109724
CCV Standard	WP109757
ICSA Standard	N/A
CRI Standard	N/A
LCS Standard	WP109758
Chk Standard	WP109725,WP109726

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	STD1	STD1	CAL1	09/16/24 11:39	All standards, samples, and	NF/IZ	OK
2	STD2	STD2	CAL2	09/16/24 12:00	QC are filtered through	NF/IZ	OK
3	STD3	STD3	CAL3	09/16/24 12:22	0.45um, filter lot W2865	NF/IZ	OK
4	STD4	STD4	CAL4	09/16/24 12:43		NF/IZ	OK
5	STD5	STD5	CAL5	09/16/24 13:05		NF/IZ	OK
6	STD6	STD6	CAL6	09/16/24 13:26		NF/IZ	OK
7	STD7	STD7	CAL7	09/16/24 13:47		NF/IZ	OK
8	ICV1	ICV1	ICV	09/16/24 15:00		NF/IZ	OK
9	ICB1	ICB1	ICB	09/16/24 15:21		NF/IZ	OK
10	CCV1	CCV1	CCV	09/17/24 10:31		NF/IZ	OK
11	CCB1	CCB1	CCB	09/17/24 10:52		NF/IZ	OK
12	LB132492BLW	LB132492BLW	MB	09/17/24 11:14		NF/IZ	OK
13	LB132492BSW	LB132492BSW	LCS	09/17/24 11:35		NF/IZ	OK
14	P3848-06	PT-MIN1-WP	SAM	09/17/24 12:03	CL,SO4 high	NF/IZ	Dilution
15	P3848-12	PT-NUT1-WP	SAM	09/17/24 12:25	NO3 high	NF/IZ	Dilution
16	P3848-16	PT-NUT3-WP	SAM	09/17/24 12:46		NF/IZ	OK
17	P3848-06DL	PT-MIN1-WPDL	SAM	09/17/24 13:08	Report 5X for CL,SO4,Still CL high	NF/IZ	Dilution
18	P3848-06DL2	PT-MIN1-WPDL2	SAM	09/17/24 13:29	Report 50X for CL	NF/IZ	Confirms

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Instrument ID: IC-2

Daily Analysis Runlog For Sequence/QCBatch ID # LB132492

Review By	Niha	Review On	9/19/2024 9:24:34 AM
Supervise By	Iwona	Supervise On	9/19/2024 9:53:48 AM
SubDirectory	LB132492	Test	Anions

STD. NAME	STD REF.#
ICAL Standard	WP109717,WP109718,WP109719,WP109720,WP109721,WP109722,WP109723
ICV Standard	WP109724
CCV Standard	WP109757
ICSA Standard	N/A
CRI Standard	N/A
LCS Standard	WP109758
Chk Standard	WP109725,WP109726

19	P3848-12DL	PT-NUT1-WPDL	SAM	09/17/24 13:51	Report 5X for NO3	NF/IZ	Confirms
20	CCV2	CCV2	CCV	09/17/24 14:56		NF/IZ	OK
21	CCB2	CCB2	CCB	09/17/24 15:17		NF/IZ	OK

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Instrument ID: KONELAB

Daily Analysis Runlog For Sequence/QCBatch ID # LB132507

Review By	rubina	Review On	9/20/2024 9:16:45 AM
Supervise By	Iwona	Supervise On	9/20/2024 10:13:23 AM
SubDirectory	LB132507	Test	TKN

STD. NAME	STD REF.#
ICAL Standard	WP109683
ICV Standard	WP109685
CCV Standard	WP109684
ICSA Standard	N/A
CRI Standard	N/A
LCS Standard	WP109686
Chk Standard	WP108309,WP108741,WP108709,WP108840

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	0.0PPM	0.0PPM	CAL1	09/18/24 15:09		rubina	OK
2	0.5PPM	0.5PPM	CAL2	09/18/24 15:09		rubina	OK
3	1.0PPM	1.0PPM	CAL3	09/18/24 15:09		rubina	OK
4	2.5PPM	2.5PPM	CAL4	09/18/24 15:09		rubina	OK
5	5.0PPM	5.0PPM	CAL5	09/18/24 15:09		rubina	OK
6	6.7PPM	6.7PPM	CAL6	09/18/24 15:09		rubina	OK
7	10.0PPM	10.0PPM	CAL7	09/18/24 15:09		rubina	OK
8	ICV1	ICV1	ICV	09/18/24 16:26		rubina	OK
9	ICB1	ICB1	ICB	09/18/24 16:26		rubina	OK
10	CCV1	CCV1	CCV	09/18/24 16:26		rubina	OK
11	CCB1	CCB1	CCB	09/18/24 16:26		rubina	OK
12	RL	RL	SAM	09/18/24 16:26		rubina	OK
13	PB163389BL	PB163389BL	MB	09/18/24 16:26		rubina	OK
14	PB163389BS	PB163389BS	LCS	09/18/24 16:36		rubina	OK
15	P3848-13	PT-NUT2-WP	SAM	09/18/24 16:36	High	rubina	Dilution
16	P4085-05	PURGE-WATER	SAM	09/18/24 16:47		rubina	OK
17	P4085-05DUP	PURGE-WATERDUP	DUP	09/18/24 16:47		rubina	OK
18	P4085-05MS	PURGE-WATERMS	MS	09/18/24 16:47		rubina	OK

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Instrument ID: KONELAB

Daily Analysis Runlog For Sequence/QCBatch ID # LB132507

Review By	rubina	Review On	9/20/2024 9:16:45 AM
Supervise By	Iwona	Supervise On	9/20/2024 10:13:23 AM
SubDirectory	LB132507	Test	TKN

STD. NAME	STD REF.#
ICAL Standard	WP109683
ICV Standard	WP109685
CCV Standard	WP109684
ICSA Standard	N/A
CRI Standard	N/A
LCS Standard	WP109686
Chk Standard	WP108309,WP108741,WP108709,WP108840

19	P4085-05MSD	PURGE-WATERMSD	MSD	09/18/24 16:47		rubina	OK
20	CCV2	CCV2	CCV	09/18/24 16:56		rubina	OK
21	CCB2	CCB2	CCB	09/18/24 16:56		rubina	OK
22	P3848-13DL	PT-NUT2-WPDL	SAM	09/18/24 17:17	Report 2X	rubina	Confirms
23	CCV3	CCV3	CCV	09/18/24 17:17		rubina	OK
24	CCB3	CCB3	CCB	09/18/24 17:17		rubina	OK

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Instrument ID: SPECTROPHOTOMETER-2

Daily Analysis Runlog For Sequence/QCBatch ID # LB132508

Review By	Niha	Review On	12/2/2024 11:39:19 AM
Supervise By	Iwona	Supervise On	12/2/2024 11:41:29 AM
SubDirectory	LB132508	Test	COD

STD. NAME	STD REF.#
ICAL Standard	N/A
ICV Standard	N/A
CCV Standard	N/A
ICSA Standard	N/A
CRI Standard	N/A
LCS Standard	N/A
Chk Standard	W3068,WP108671,WP108668,WP108666,WP108669,WP108667,WP108665,WP109777,WP109777,WP109776

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	CAL1	CAL1	CAL	07/09/24 14:20		Niha	OK
2	CAL2	CAL2	CAL	07/09/24 14:20		Niha	OK
3	CAL3	CAL3	CAL	07/09/24 14:21		Niha	OK
4	CAL4	CAL4	CAL	07/09/24 14:21		Niha	OK
5	CAL5	CAL5	CAL	07/09/24 14:22		Niha	OK
6	ICV	ICV	ICV	07/09/24 14:22		Niha	OK
7	ICB	ICB	ICB	07/09/24 14:23		Niha	OK
8	CCV1	CCV1	CCV	09/19/24 14:30		Niha	OK
9	CCB1	CCB1	CCB	09/19/24 14:30		Niha	OK
10	LB132508BL	LB132508BL	MB	09/19/24 14:31		Niha	OK
11	LB132508BS	LB132508BS	LCS	09/19/24 14:31		Niha	OK
12	P3848-03	PT-DEM-WP	SAM	09/19/24 14:32		Niha	OK
13	P4085-05	PURGE-WATER	SAM	09/19/24 14:32		Niha	OK
14	P4085-05DUP	PURGE-WATERDUP	DUP	09/19/24 14:33		Niha	OK
15	P4085-05MS	PURGE-WATERMS	MS	09/19/24 14:33		Niha	OK
16	P4085-05MSD	PURGE-WATERMSD	MSD	09/19/24 14:34		Niha	OK
17	CCV2	CCV2	CCV	09/19/24 14:34		Niha	OK
18	CCB2	CCB2	CCB	09/19/24 14:35		Niha	OK

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Instrument ID: KONELAB

Daily Analysis Runlog For Sequence/QCBatch ID # LB132513

Review By	rubina	Review On	9/20/2024 9:24:26 AM
Supervise By	Iwona	Supervise On	9/20/2024 10:13:48 AM
SubDirectory	LB132513	Test	Phenolics

STD. NAME	STD REF.#
ICAL Standard	WP109781
ICV Standard	WP109783
CCV Standard	WP109782
ICSA Standard	N/A
CRI Standard	N/A
LCS Standard	WP109632
Chk Standard	WP107255,WP107256,WP109780

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	0.00PPM	0.00PPM	CAL1	09/19/24 15:08		rubina	OK
2	0.05PPM	0.05PPM	CAL2	09/19/24 15:08		rubina	OK
3	0.1PPM	0.1PPM	CAL3	09/19/24 15:08		rubina	OK
4	0.25PPM	0.25PPM	CAL4	09/19/24 15:08		rubina	OK
5	0.50PPM	0.50PPM	CAL5	09/19/24 15:08		rubina	OK
6	1.0PPM	1.0PPM	CAL6	09/19/24 15:08		rubina	OK
7	2.0PPM	2.0PPM	CAL7	09/19/24 15:08		rubina	OK
8	ICV1	ICV1	ICV	09/19/24 15:46		rubina	OK
9	ICB1	ICB1	ICB	09/19/24 15:46		rubina	OK
10	CCV1	CCV1	CCV	09/19/24 15:46		rubina	OK
11	CCB1	CCB1	CCB	09/19/24 15:46		rubina	OK
12	PB163449BL	PB163449BL	MB	09/19/24 15:46		rubina	OK
13	PB163449BS	PB163449BS	LCS	09/19/24 15:46		rubina	OK
14	P3848-26	PT-PHEN-WP	SAM	09/19/24 15:56		rubina	OK
15	P3940-01	AST-2024-4036-PRIM	SAM	09/19/24 16:06		rubina	OK
16	P3940-01DUP	AST-2024-4036-PRIM	DUP	09/19/24 16:06		rubina	OK
17	P3940-01MS	AST-2024-4036-PRIM	MS	09/19/24 16:06		rubina	OK
18	P3940-01MSD	AST-2024-4036-PRIM	MSD	09/19/24 16:06		rubina	OK

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Instrument ID: KONELAB

Daily Analysis Runlog For Sequence/QCBatch ID # LB132513

Review By	rubina	Review On	9/20/2024 9:24:26 AM
Supervise By	Iwona	Supervise On	9/20/2024 10:13:48 AM
SubDirectory	LB132513	Test	Phenolics

STD. NAME	STD REF.#
ICAL Standard	WP109781
ICV Standard	WP109783
CCV Standard	WP109782
ICSA Standard	N/A
CRI Standard	N/A
LCS Standard	WP109632
Chk Standard	WP107255,WP107256,WP109780

19	CCV2	CCV2	CCV	09/19/24 16:10		rubina	OK
20	CCB2	CCB2	CCB	09/19/24 16:25		rubina	OK

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Instrument ID: KONELAB

Daily Analysis Runlog For Sequence/QCBatch ID # LB132515

Review By	rubina	Review On	9/20/2024 9:25:49 AM
Supervise By	Iwona	Supervise On	9/20/2024 10:13:58 AM
SubDirectory	LB132515	Test	Phenolics

STD. NAME	STD REF.#
ICAL Standard	WP109781
ICV Standard	WP109783
CCV Standard	WP109782
ICSA Standard	N/A
CRI Standard	N/A
LCS Standard	WP109632
Chk Standard	WP107255,WP107256,WP109780

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	0.00PPM	0.00PPM	CAL1	09/19/24 15:08		rubina	OK
2	0.05PPM	0.05PPM	CAL2	09/19/24 15:08		rubina	OK
3	0.1PPM	0.1PPM	CAL3	09/19/24 15:08		rubina	OK
4	0.25PPM	0.25PPM	CAL4	09/19/24 15:08		rubina	OK
5	0.50PPM	0.50PPM	CAL5	09/19/24 15:08		rubina	OK
6	1.0PPM	1.0PPM	CAL6	09/19/24 15:08		rubina	OK
7	2.0PPM	2.0PPM	CAL7	09/19/24 15:08		rubina	OK
8	ICV1	ICV1	ICV	09/19/24 16:55		rubina	OK
9	ICB1	ICB1	ICB	09/19/24 16:55		rubina	OK
10	CCV1	CCV1	CCV	09/19/24 16:55		rubina	OK
11	CCB1	CCB1	CCB	09/19/24 16:56		rubina	OK
12	PB163450BL	PB163450BL	MB	09/19/24 16:56		rubina	OK
13	PB163450BS	PB163450BS	LCS	09/19/24 16:56		rubina	OK
14	P3848-25	PT-PHEN-WP	SAM	09/19/24 17:01		rubina	OK
15	CCV2	CCV2	CCV	09/19/24 17:01		rubina	OK
16	CCB2	CCB2	CCB	09/19/24 17:01		rubina	OK

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Instrument ID: WC TURBIDIMETER-1

Daily Analysis Runlog For Sequence/QCBatch ID # LB132528

Review By	Niha	Review On	10/2/2024 9:11:28 AM
Supervise By	Iwona	Supervise On	10/2/2024 11:21:05 AM
SubDirectory	LB132528	Test	Sulfate

STD. NAME	STD REF.#
ICAL Standard	N/A
ICV Standard	N/A
CCV Standard	N/A
ICSA Standard	N/A
CRI Standard	N/A
LCS Standard	N/A
Chk Standard	WP109815,WP109816,WP108958,WP109809,WP109811,WP109806,WP109808,WP109810,WP109812,WP109814

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	CAL1	CAL1	CAL	09/20/24 09:30		Niha	OK
2	CAL2	CAL2	CAL	09/20/24 09:33		Niha	OK
3	CAL3	CAL3	CAL	09/20/24 09:36		Niha	OK
4	CAL4	CAL4	CAL	09/20/24 09:39		Niha	OK
5	CAL5	CAL5	CAL	09/20/24 09:42		Niha	OK
6	CAL6	CAL6	CAL	09/20/24 09:45		Niha	OK
7	CAL7	CAL7	CAL	09/20/24 09:48		Niha	OK
8	CAL8	CAL8	CAL	09/20/24 09:51		Niha	OK
9	CAL9	CAL9	CAL	09/20/24 09:54		Niha	OK
10	ICV	ICV	ICV	09/20/24 09:57		Niha	OK
11	ICB	ICB	ICB	09/20/24 10:00		Niha	OK
12	CCV1	CCV1	CCV	09/20/24 10:03		Niha	OK
13	CCB1	CCB1	CCB	09/20/24 10:07		Niha	OK
14	LB132528BL	LB132528BL	MB	09/20/24 10:10		Niha	OK
15	LB132528BS	LB132528BS	LCS	09/20/24 10:13		Niha	OK
16	P3848-05	PT-MIN1-WP	SAM	09/20/24 10:16		Niha	OK
17	P3848-05	PT-MIN1-WP	SAM	09/20/24 10:20		Niha	OK
18	CCV2	CCV2	CCV	09/20/24 10:23		Niha	OK

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Instrument ID: WC TURBIDIMETER-1

Daily Analysis Runlog For Sequence/QCBatch ID # LB132528

Review By	Niha	Review On	10/2/2024 9:11:28 AM
Supervise By	Iwona	Supervise On	10/2/2024 11:21:05 AM
SubDirectory	LB132528	Test	Sulfate

STD. NAME	STD REF.#
ICAL Standard	N/A
ICV Standard	N/A
CCV Standard	N/A
ICSA Standard	N/A
CRI Standard	N/A
LCS Standard	N/A
Chk Standard	WP109815,WP109816,WP108958,WP109809,WP109811,WP109806,WP109808,WP109810,WP109812,WP109814

19	CCB2	CCB2	CCB	09/20/24 10:27		Niha	OK

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Instrument ID: WC TURBIDIMETER-1

Daily Analysis Runlog For Sequence/QCBatch ID # LB132529

Review By	Niha	Review On	10/2/2024 9:12:00 AM
Supervise By	Iwona	Supervise On	10/2/2024 11:22:27 AM
SubDirectory	LB132529	Test	Sulfate

STD. NAME	STD REF.#
ICAL Standard	N/A
ICV Standard	N/A
CCV Standard	N/A
ICSA Standard	N/A
CRI Standard	N/A
LCS Standard	N/A
Chk Standard	WP109815,WP109816,WP108893,WP109817,WP109809,WP109811,WP109806,WP109808,WP109810,WP109812

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	CAL1	CAL1	CAL	09/20/24 11:30		Niha	OK
2	CAL2	CAL2	CAL	09/20/24 11:33		Niha	OK
3	CAL3	CAL3	CAL	09/20/24 11:36		Niha	OK
4	CAL4	CAL4	CAL	09/20/24 11:39		Niha	OK
5	CAL5	CAL5	CAL	09/20/24 11:42		Niha	OK
6	CAL6	CAL6	CAL	09/20/24 11:45		Niha	OK
7	CAL8	CAL8	CAL	09/20/24 11:51		Niha	OK
8	CAL9	CAL9	CAL	09/20/24 11:54		Niha	OK
9	ICV	ICV	ICV	09/20/24 11:57		Niha	OK
10	ICB	ICB	ICB	09/20/24 12:00		Niha	OK
11	CCV1	CCV1	CCV	09/20/24 12:03		Niha	OK
12	CCB1	CCB1	CCB	09/20/24 12:06		Niha	OK
13	LB132529BL	LB132529BL	MB	09/20/24 12:09		Niha	OK
14	LB132529BS	LB132529BS	LCS	09/20/24 12:12		Niha	OK
15	P3848-06	PT-MIN1-WP	SAM	09/20/24 12:15		Niha	OK
16	P3848-06	PT-MIN1-WP	SAM	09/20/24 12:18		Niha	OK
17	CCV2	CCV2	CCV	09/20/24 12:21		Niha	OK
18	CCB2	CCB2	CCB	09/20/24 12:24		Niha	OK

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Instrument ID: WC TURBIDIMETER-1

Daily Analysis Runlog For Sequence/QCBatch ID # LB132529

Review By	Niha	Review On	10/2/2024 9:12:00 AM
Supervise By	Iwona	Supervise On	10/2/2024 11:22:27 AM
SubDirectory	LB132529	Test	Sulfate

STD. NAME	STD REF.#
ICAL Standard	N/A
ICV Standard	N/A
CCV Standard	N/A
ICSA Standard	N/A
CRI Standard	N/A
LCS Standard	N/A
Chk Standard	WP109815,WP109816,WP108893,WP109817,WP109809,WP109811,WP109806,WP109808,WP109810,WP109812

19	CAL7	CAL7	CAL	09/20/24 13:39		Niha	OK

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Instrument ID: SPECTROPHOTOMETER-1

Daily Analysis Runlog For Sequence/QCBatch ID # LB132534

Review By	Niha	Review On	9/23/2024 10:24:09 AM
Supervise By	Iwona	Supervise On	9/23/2024 11:56:30 AM
SubDirectory	LB132534	Test	Phosphorus-Ortho

STD. NAME	STD REF.#
ICAL Standard	N/A
ICV Standard	N/A
CCV Standard	N/A
ICSA Standard	N/A
CRI Standard	N/A
LCS Standard	N/A
Chk Standard	WP109823,WP109822,WP109820,WP109821,WP109819,WP109818,WP109825,WP107791,WP109827,WP108727

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	CAL1	CAL1	CAL	09/20/24 15:20		Iwona	OK
2	CAL2	CAL2	CAL	09/20/24 15:20		Iwona	OK
3	CAL3	CAL3	CAL	09/20/24 15:21		Iwona	OK
4	CAL4	CAL4	CAL	09/20/24 15:21		Iwona	OK
5	CAL5	CAL5	CAL	09/20/24 15:22		Iwona	OK
6	CAL6	CAL6	CAL	09/20/24 15:22		Iwona	OK
7	ICV	ICV	ICV	09/20/24 15:23		Iwona	OK
8	ICB	ICB	ICB	09/20/24 15:23		Iwona	OK
9	CCV1	CCV1	CCV	09/20/24 15:24		Iwona	OK
10	CCB1	CCB1	CCB	09/20/24 15:24		Iwona	OK
11	RL Check	RL Check	SAM	09/20/24 15:25		Iwona	OK
12	LB132534BL	LB132534BL	MB	09/20/24 15:25		Iwona	OK
13	LB132534BS	LB132534BS	LCS	09/20/24 15:26		Iwona	OK
14	P3848-12	PT-NUT1-WP	SAM	09/20/24 15:26		Iwona	OK
15	P4147-01	EFFLUENT	SAM	09/20/24 15:27		Iwona	OK
16	P4147-01DUP	EFFLUENTDUP	DUP	09/20/24 15:27		Iwona	OK
17	P4147-01MS	EFFLUENTMS	MS	09/20/24 15:28		Iwona	OK
18	P4147-01MSD	EFFLUENTMSD	MSD	09/20/24 15:28		Iwona	OK

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Instrument ID: SPECTROPHOTOMETER-1

Daily Analysis Runlog For Sequence/QCBatch ID # LB132534

Review By	Niha	Review On	9/23/2024 10:24:09 AM
Supervise By	Iwona	Supervise On	9/23/2024 11:56:30 AM
SubDirectory	LB132534	Test	Phosphorus-Ortho

STD. NAME	STD REF.#
ICAL Standard	N/A
ICV Standard	N/A
CCV Standard	N/A
ICSA Standard	N/A
CRI Standard	N/A
LCS Standard	N/A
Chk Standard	WP109823,WP109822,WP109820,WP109821,WP109819,WP109818,WP109825,WP107791,WP109827,WP108727

19	P3848-12DL	PT-NUT1-WPDL	SAM	09/20/24 15:29		Iwona	OK
20	CCV2	CCV2	CCV	09/20/24 15:29		Iwona	OK
21	CCB2	CCB2	CCB	09/20/24 15:30		Iwona	OK

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Instrument ID: WC PH METER-1

Daily Analysis Runlog For Sequence/QCBatch ID # LB132548

Review By	jignesh	Review On	9/23/2024 11:20:18 AM
Supervise By	Iwona	Supervise On	9/23/2024 11:53:05 AM
SubDirectory	LB132548	Test	pH

STD. NAME	STD REF.#
ICAL Standard	N/A
ICV Standard	N/A
CCV Standard	N/A
ICSA Standard	N/A
CRI Standard	N/A
LCS Standard	N/A
Chk Standard	W3107,W3093,W3094,W3071,W3005,W3072

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	CAL1	CAL1	CAL	09/23/24 11:10		Jignesh	OK
2	CAL2	CAL2	CAL	09/23/24 11:11		Jignesh	OK
3	CAL3	CAL3	CAL	09/23/24 11:12		Jignesh	OK
4	ICV	ICV	ICV	09/23/24 11:15		Jignesh	OK
5	CCV1	CCV1	CCV	09/23/24 11:20		Jignesh	OK
6	P3848-20	PT-PH-WP	SAM	09/23/24 11:25		Jignesh	OK
7	P4140-02	306-307	SAM	09/23/24 11:30		Jignesh	OK
8	P4140-02DUP	306-307DUP	DUP	09/23/24 11:31		Jignesh	OK
9	CCV2	CCV2	CCV	09/23/24 11:35		Jignesh	OK

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Instrument ID: WC PH METER-1

Daily Analysis Runlog For Sequence/QCBatch ID # LB132549

Review By	jignesh	Review On	9/23/2024 11:26:11 AM
Supervise By	Iwona	Supervise On	9/23/2024 11:52:56 AM
SubDirectory	LB132549	Test	pH

STD. NAME	STD REF.#
ICAL Standard	N/A
ICV Standard	N/A
CCV Standard	N/A
ICSA Standard	N/A
CRI Standard	N/A
LCS Standard	N/A
Chk Standard	W3107,W3093,W3094,W3071,W3005,W3072

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	CAL1	CAL1	CAL	09/23/24 11:10		jignesh	OK
2	CAL2	CAL2	CAL	09/23/24 11:11		jignesh	OK
3	CAL3	CAL3	CAL	09/23/24 11:12		jignesh	OK
4	ICV	ICV	ICV	09/23/24 11:15		jignesh	OK
5	CCV1	CCV1	CCV	09/23/24 11:20		jignesh	OK
6	P3848-21	PT-PH-WP	SAM	09/23/24 11:25		jignesh	OK
7	CCV2	CCV2	CCV	09/23/24 11:35		jignesh	OK

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Instrument ID: SPECTROPHOTOMETER-1

Daily Analysis Runlog For Sequence/QCBatch ID # LB132576

Review By	rubina	Review On	9/25/2024 9:03:36 AM
Supervise By	Iwona	Supervise On	9/25/2024 9:38:47 AM
SubDirectory	LB132576	Test	Hexavalent Chromium

STD. NAME	STD REF.#
ICAL Standard	N/A
ICV Standard	N/A
CCV Standard	N/A
ICSA Standard	N/A
CRI Standard	N/A
LCS Standard	N/A
Chk Standard	WP109882,WP109881,WP109879,WP109878,WP109886,WP109325,WP109880,WP109885,WP109883,WP109884

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	CAL1	CAL1	CAL	09/24/24 16:50		rubina	OK
2	CAL2	CAL2	CAL	09/24/24 16:51		rubina	OK
3	CAL3	CAL3	CAL	09/24/24 16:52		rubina	OK
4	CAL4	CAL4	CAL	09/24/24 16:53		rubina	OK
5	CAL5	CAL5	CAL	09/24/24 16:54		rubina	OK
6	CAL6	CAL6	CAL	09/24/24 16:55		rubina	OK
7	CAL7	CAL7	CAL	09/24/24 16:56		rubina	OK
8	ICV	ICV	ICV	09/24/24 16:57		rubina	OK
9	ICB	ICB	ICB	09/24/24 16:58		rubina	OK
10	CCV1	CCV1	CCV	09/24/24 16:59		rubina	OK
11	CCB1	CCB1	CCB	09/24/24 17:00		rubina	OK
12	RL Check	RL Check	SAM	09/24/24 17:01		rubina	OK
13	LB132576BL	LB132576BL	MB	09/24/24 17:02		rubina	OK
14	LB132576BS	LB132576BS	LCS	09/24/24 17:03		rubina	OK
15	P3848-02	PT-CR6-WP	SAM	09/24/24 17:04		rubina	OK
16	P4165-07	14B-(1-4)-COMP	SAM	09/24/24 17:05		rubina	OK
17	P4165-07DUP	14B-(1-4)-COMPDUP	DUP	09/24/24 17:06		rubina	OK
18	P4165-07MS	14B-(1-4)-COMPMS	MS	09/24/24 17:07	1ML WP108658+99.0ML SAMPLE	rubina	OK

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Instrument ID: SPECTROPHOTOMETER-1

Daily Analysis Runlog For Sequence/QCBatch ID # LB132576

Review By	rubina	Review On	9/25/2024 9:03:36 AM
Supervise By	lwona	Supervise On	9/25/2024 9:38:47 AM
SubDirectory	LB132576	Test	Hexavalent Chromium

STD. NAME	STD REF.#
ICAL Standard	N/A
ICV Standard	N/A
CCV Standard	N/A
ICSA Standard	N/A
CRI Standard	N/A
LCS Standard	N/A
Chk Standard	WP109882,WP109881,WP109879,WP109878,WP109886,WP109325,WP109880,WP109885,WP109883,WP109884

19	P4165-07MSD	14B-(1-4)-COMPMSD	MSD	09/24/24 17:08	1ML WP108658+99.0ML SAMPLE	rubina	OK
20	CCV2	CCV2	CCV	09/24/24 17:09		rubina	OK
21	CCB2	CCB2	CCB	09/24/24 17:10		rubina	OK

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Instrument ID: KONELAB

Daily Analysis Runlog For Sequence/QCBatch ID # LB132583

Review By	Niha	Review On	9/25/2024 12:13:14 PM
Supervise By	Iwona	Supervise On	9/25/2024 2:39:19 PM
SubDirectory	LB132583	Test	Cyanide

STD. NAME	STD REF.#
ICAL Standard	WP109869,WP109870,WP109871,WP109872,WP109873,WP109874,WP109875
ICV Standard	W3011
CCV Standard	WP109870
ICSA Standard	N/A
CRI Standard	N/A
LCS Standard	WP109549
Chk Standard	WP109068,WP107283,WP109876

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	0.0PPBCN	0.0PPBCN	CAL1	09/24/24 13:48		Niha	OK
2	5.0PPBCN	5.0PPBCN	CAL2	09/24/24 13:48		Niha	OK
3	10PPBCN	10PPBCN	CAL3	09/24/24 13:48		Niha	OK
4	50PPBCN	50PPBCN	CAL4	09/24/24 13:48		Niha	OK
5	100PPBCN	100PPBCN	CAL5	09/24/24 13:48		Niha	OK
6	250PPBCN	250PPBCN	CAL6	09/24/24 13:48		Niha	OK
7	500PPBCN	500PPBCN	CAL7	09/24/24 13:49		Niha	OK
8	ICV1	ICV1	ICV	09/24/24 14:38		Niha	OK
9	ICB1	ICB1	ICB	09/24/24 14:38		Niha	OK
10	CCV1	CCV1	CCV	09/24/24 14:38		Niha	OK
11	CCB1	CCB1	CCB	09/24/24 14:38		Niha	OK
12	RL	RL	SAM	09/24/24 14:38		Niha	OK
13	PB163632BL	PB163632BL	MB	09/24/24 14:38		Niha	OK
14	PB163632BS	PB163632BS	LCS	09/24/24 14:46		Niha	OK
15	MIDPB163632	MIDPB163632	SAM	09/24/24 14:46		Niha	OK
16	P3848-22	PT-CN-WP	SAM	09/24/24 15:09		Niha	OK
17	P3965-02	EFF-DAY-1-1-4CN	SAM	09/24/24 15:52		Niha	OK
18	P3965-02DUP	EFF-DAY-1-1-4CNDU	DUP	09/24/24 15:52		Niha	OK

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Instrument ID: KONELAB

Daily Analysis Runlog For Sequence/QCBatch ID # LB132583

Review By	Niha	Review On	9/25/2024 12:13:14 PM
Supervise By	Iwona	Supervise On	9/25/2024 2:39:19 PM
SubDirectory	LB132583	Test	Cyanide

STD. NAME	STD REF.#
ICAL Standard	WP109869,WP109870,WP109871,WP109872,WP109873,WP109874,WP109875
ICV Standard	W3011
CCV Standard	WP109870
ICSA Standard	N/A
CRI Standard	N/A
LCS Standard	WP109549
Chk Standard	WP109068,WP107283,WP109876

19	P3965-02MS	EFF-DAY-1-1-4CNMS	MS	09/24/24 15:52		Niha	OK
20	P3965-02MSD	EFF-DAY-1-1-4CNMS	MSD	09/24/24 15:52		Niha	OK
21	CCV2	CCV2	CCV	09/24/24 15:52		Niha	OK
22	CCB2	CCB2	CCB	09/24/24 15:52		Niha	OK

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Instrument ID: KONELAB

Daily Analysis Runlog For Sequence/QCBatch ID # LB132590

Review By	Niha	Review On	9/26/2024 9:01:45 AM
Supervise By	Iwona	Supervise On	9/26/2024 11:47:37 AM
SubDirectory	LB132590	Test	Cyanide

STD. NAME	STD REF.#
ICAL Standard	WP109888,WP109889,WP109890,WP109891,WP109892,WP109893,WP109894
ICV Standard	W3011
CCV Standard	WP109889
ICSA Standard	N/A
CRI Standard	N/A
LCS Standard	WP109549
Chk Standard	WP109068,WP107283,WP109895

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	0.0PPBCN	0.0PPBCN	CAL1	09/25/24 10:02		Niha	OK
2	5.0PPBCN	5.0PPBCN	CAL2	09/25/24 10:02		Niha	OK
3	10PPBCN	10PPBCN	CAL3	09/25/24 10:02		Niha	OK
4	50PPBCN	50PPBCN	CAL4	09/25/24 10:02		Niha	OK
5	100PPBCN	100PPBCN	CAL5	09/25/24 10:02		Niha	OK
6	250PPBCN	250PPBCN	CAL6	09/25/24 10:02		Niha	OK
7	500PPBCN	500PPBCN	CAL7	09/25/24 10:02		Niha	OK
8	ICV1	ICV1	ICV	09/25/24 11:41		Niha	OK
9	ICB1	ICB1	ICB	09/25/24 11:41		Niha	OK
10	CCV1	CCV1	CCV	09/25/24 11:41		Niha	OK
11	CCB1	CCB1	CCB	09/25/24 11:41		Niha	OK
12	PB163628BL	PB163628BL	MB	09/25/24 11:41		Niha	OK
13	PB163628BS	PB163628BS	LCS	09/25/24 11:41		Niha	OK
14	P3848-23	PT-CN-WP	SAM	09/25/24 11:48		Niha	OK
15	CCV2	CCV2	CCV	09/25/24 11:55		Niha	OK
16	CCB2	CCB2	CCB	09/25/24 11:55		Niha	OK

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Instrument ID: KONELAB

Daily Analysis Runlog For Sequence/QCBatch ID # LB132591

Review By	Niha	Review On	9/26/2024 8:58:57 AM
Supervise By	Iwona	Supervise On	9/26/2024 11:47:27 AM
SubDirectory	LB132591	Test	Cyanide

STD. NAME	STD REF.#
ICAL Standard	WP109888,WP109889,WP109890,WP109891,WP109892,WP109893,WP109894
ICV Standard	W3011
CCV Standard	WP109889
ICSA Standard	N/A
CRI Standard	N/A
LCS Standard	WP109549
Chk Standard	WP109068,WP107283,WP109895

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	0.0PPBCN	0.0PPBCN	CAL1	09/25/24 10:02		Niha	OK
2	5.0PPBCN	5.0PPBCN	CAL2	09/25/24 10:02		Niha	OK
3	10PPBCN	10PPBCN	CAL3	09/25/24 10:02		Niha	OK
4	50PPBCN	50PPBCN	CAL4	09/25/24 10:02		Niha	OK
5	100PPBCN	100PPBCN	CAL5	09/25/24 10:02		Niha	OK
6	250PPBCN	250PPBCN	CAL6	09/25/24 10:02		Niha	OK
7	500PPBCN	500PPBCN	CAL7	09/25/24 10:02		Niha	OK
8	ICV1	ICV1	ICV	09/25/24 12:45		Niha	OK
9	ICB1	ICB1	ICB	09/25/24 12:45		Niha	OK
10	CCV1	CCV1	CCV	09/25/24 12:45		Niha	OK
11	CCB1	CCB1	CCB	09/25/24 12:45		Niha	OK
12	PB163640BL	PB163640BL	MB	09/25/24 12:45		Niha	OK
13	PB163640BS	PB163640BS	LCS	09/25/24 12:45		Niha	OK
14	P3848-24	PT-CN-WP	SAM	09/25/24 12:53		Niha	OK
15	CCV2	CCV2	CCV	09/25/24 12:53		Niha	OK
16	CCB2	CCB2	CCB	09/25/24 12:53		Niha	OK

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Instrument ID: TOC

Daily Analysis Runlog For Sequence/QCBatch ID # LB132606

Review By	Niha	Review On	10/1/2024 2:26:38 PM
Supervise By	Iwona	Supervise On	10/1/2024 2:41:19 PM
SubDirectory	LB132606	Test	TOC

STD. NAME	STD REF.#
ICAL Standard	WP109852,WP109853,WP109854,WP109855,WP109856,WP109857
ICV Standard	WP109859
CCV Standard	WP109858
ICSA Standard	N/A
CRI Standard	N/A
LCS Standard	WP109859
Chk Standard	WP109953,WP109860,WP109865

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	0.0PPM	0.0PPM	CAL1	09/25/24 11:13		NF IZ	OK
2	0.5PPM	0.5PPM	CAL2	09/25/24 12:02		NF IZ	OK
3	1.0PPM	1.0PPM	CAL3	09/25/24 12:52		NF IZ	OK
4	2.0PPM	2.0PPM	CAL4	09/25/24 13:18		NF IZ	OK
5	5.0PPM	5.0PPM	CAL5	09/25/24 13:45		NF IZ	OK
6	10.0PPM	10.0PPM	CAL6	09/25/24 14:12		NF IZ	OK
7	20.0PPM	20.0PPM	CAL7	09/25/24 14:40		NF IZ	OK
8	ICV1	ICV1	ICV	09/25/24 15:07		NF IZ	OK
9	ICB1	ICB1	ICB	09/25/24 15:31		NF IZ	OK
10	IC-20	IC-20	SAM	09/25/24 15:54		NF IZ	OK
11	IC-R	IC-R	SAM	09/25/24 16:18		NF IZ	OK
12	CCV1	CCV1	CCV	09/26/24 09:55		NF IZ	OK
13	CCB1	CCB1	CCB	09/26/24 10:19		NF IZ	OK
14	LB132606BLW	LB132606BLW	MB	09/26/24 10:43		NF IZ	OK
15	LB132606BSW	LB132606BSW	LCS	09/26/24 11:10		NF IZ	OK
16	P3848-04	PT-DEM-WP	SAM	09/26/24 13:56		NF IZ	OK
17	CCV2	CCV2	CCV	09/26/24 14:23		NF IZ	OK
18	CCB2	CCB2	CCB	09/26/24 14:46		NF IZ	OK

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Instrument ID: TOC

Daily Analysis Runlog For Sequence/QCBatch ID # LB132606

Review By	Niha	Review On	10/1/2024 2:26:38 PM
Supervise By	Iwona	Supervise On	10/1/2024 2:41:19 PM
SubDirectory	LB132606	Test	TOC

STD. NAME	STD REF.#
ICAL Standard	WP109852,WP109853,WP109854,WP109855,WP109856,WP109857
ICV Standard	WP109859
CCV Standard	WP109858
ICSA Standard	N/A
CRI Standard	N/A
LCS Standard	WP109859
Chk Standard	WP109953,WP109860,WP109865

19	P4209-02	DRUM-2	SAM	09/26/24 16:16		NF IZ	OK
20	P4194-01	MANHOLE-119-KEAR	SAM	09/26/24 16:46		NF IZ	OK
21	P4194-01MS	MANHOLE-119-KEAR	MS	09/26/24 17:16	2.0ml WP109850 +38.0ml Sample	NF IZ	OK
22	P4194-01MSD	MANHOLE-119-KEAR	MSD	09/26/24 17:47	2.0ml WP109850 +38.0ml Sample	NF IZ	OK
23	P4180-02	5602-75-001-NEUTRA	SAM	09/26/24 18:39		NF IZ	OK
24	CCV3	CCV3	CCV	09/26/24 19:34		NF IZ	OK
25	CCB3	CCB3	CCB	09/26/24 19:58		NF IZ	OK

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Instrument ID: WC SC-3

Daily Analysis Runlog For Sequence/QCBatch ID # LB132610

Review By	jignesh	Review On	9/26/2024 10:28:56 AM
Supervise By	Iwona	Supervise On	10/1/2024 3:40:57 PM
SubDirectory	LB132610	Test	Oil and Grease

STD. NAME	STD REF.#
ICAL Standard	N/A
ICV Standard	N/A
CCV Standard	N/A
ICSA Standard	N/A
CRI Standard	N/A
LCS Standard	N/A
Chk Standard	W3110,M6069,EP2540,WP108566,NA,NA,WP108567,NA,WP108568

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	LB132610BL	LB132610BL	MB	09/26/24 09:20		jignesh	OK
2	LB132610BS	LB132610BS	LCS	09/26/24 09:20		jignesh	OK
3	P3848-17	PT-ORG1L-WP	SAM	09/26/24 09:20		jignesh	OK
4	P4147-01	EFFLUENT	SAM	09/26/24 09:20		jignesh	OK
5	P4147-02	P4147-01MS	MS	09/26/24 09:20		jignesh	OK
6	P4147-03	P4147-01MSD	MSD	09/26/24 09:20		jignesh	OK
7	P4180-10	5602-75-001-NEUTRA	SAM	09/26/24 09:20		jignesh	OK
8	P4180-11	P4180-10MS	MS	09/26/24 09:20		jignesh	OK
9	P4180-12	P4180-10MSD	MSD	09/26/24 09:20		jignesh	OK

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Instrument ID: WC SC-3

Daily Analysis Runlog For Sequence/QCBatch ID # LB132611

Review By	jignesh	Review On	9/26/2024 12:42:59 PM
Supervise By	Iwona	Supervise On	9/26/2024 1:31:28 PM
SubDirectory	LB132611	Test	TPH

STD. NAME	STD REF.#
ICAL Standard	N/A
ICV Standard	N/A
CCV Standard	N/A
ICSA Standard	N/A
CRI Standard	N/A
LCS Standard	N/A
Chk Standard	W3110,M6069,EP2540,WP108566,W3079,NA,WP108567,NA,WP108568

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	LB132611BL	LB132611BL	MB	09/26/24 09:40		jignesh	OK
2	LB132611BS	LB132611BS	LCS	09/26/24 09:40		jignesh	OK
3	LB132611BSD	LB132611BSD	LCSD	09/26/24 09:40		jignesh	OK
4	P3848-18	RR-TPH1L-WP	SAM	09/26/24 09:40		jignesh	OK
5	P4188-01	GRAB	SAM	09/26/24 09:40		jignesh	OK
6	P4194-01	MANHOLE-119-KEAR	SAM	09/26/24 09:40		jignesh	OK

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Instrument ID: WC TURBIDIMETER-1

Daily Analysis Runlog For Sequence/QCBatch ID # LB132624

Review By	Niha	Review On	9/30/2024 11:28:03 AM
Supervise By	Iwona	Supervise On	9/30/2024 11:53:08 AM
SubDirectory	LB132624	Test	Turbidity

STD. NAME	STD REF.#
ICAL Standard	N/A
ICV Standard	N/A
CCV Standard	N/A
ICSA Standard	N/A
CRI Standard	N/A
LCS Standard	N/A
Chk Standard	WP109925,WP109927,WP109929,WP109928,WP109930,W3116

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	CAL1	CAL1	CAL	09/26/24 10:24		Niha	OK
2	CAL2	CAL2	CAL	09/26/24 10:28		Niha	OK
3	CAL3	CAL3	CAL	09/26/24 10:32		Niha	OK
4	CAL4	CAL4	CAL	09/26/24 10:36		Niha	OK
5	CAL5	CAL5	CAL	09/26/24 10:40		Niha	OK
6	CAL6	CAL6	CAL	09/26/24 10:44		Niha	OK
7	ICV	ICV	ICV	09/26/24 10:48		Niha	OK
8	ICB	ICB	ICB	09/26/24 10:52		Niha	OK
9	CCV1	CCV1	CCV	09/26/24 10:56		Niha	OK
10	CCB1	CCB1	CCB	09/26/24 11:00		Niha	OK
11	LB132624BL	LB132624BL	MB	09/26/24 11:04		Niha	OK
12	P3848-33	PT-TURB-WP	SAM	09/26/24 11:08		Niha	OK
13	P4200-01	B2-WARD-12-RM301	SAM	09/26/24 11:24		Niha	OK
14	P4200-01DUP	B2-WARD-12-RM301	DUP	09/26/24 11:28		Niha	OK
15	P4200-02	B2-WARD-12-RM301	SAM	09/26/24 11:32		Niha	OK
16	P4200-03	B2-WARD-12-RM301	SAM	09/26/24 11:36		Niha	OK
17	P4200-04	B2-WARD-12-LEFT-D	SAM	09/26/24 11:40		Niha	OK
18	P4200-05	B2-WARD-12-RM301	SAM	09/26/24 11:44		Niha	OK

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Instrument ID: WC TURBIDIMETER-1

Daily Analysis Runlog For Sequence/QCBatch ID # LB132624

Review By	Niha	Review On	9/30/2024 11:28:03 AM
Supervise By	Iwona	Supervise On	9/30/2024 11:53:08 AM
SubDirectory	LB132624	Test	Turbidity

STD. NAME	STD REF.#
ICAL Standard	N/A
ICV Standard	N/A
CCV Standard	N/A
ICSA Standard	N/A
CRI Standard	N/A
LCS Standard	N/A
Chk Standard	WP109925,WP109927,WP109929,WP109928,WP109930,W3116

19	P4200-06	B2-WARD-12-RM304(	SAM	09/26/24 11:48		Niha	OK
20	P4200-07	B2-WARD-12-RM303	SAM	09/26/24 11:52		Niha	OK
21	CCV2	CCV2	CCV	09/26/24 11:56		Niha	OK
22	CCB2	CCB2	CCB	09/26/24 12:00		Niha	OK

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Instrument ID: TOC

Daily Analysis Runlog For Sequence/QCBatch ID # LB132641

Review By	Niha	Review On	10/1/2024 2:27:30 PM
Supervise By	Iwona	Supervise On	10/1/2024 2:41:11 PM
SubDirectory	LB132641	Test	TOC

STD. NAME	STD REF.#
ICAL Standard	WP109852,WP109853,WP109854,WP109855,WP109856,WP109857
ICV Standard	WP109859
CCV Standard	WP109858
ICSA Standard	N/A
CRI Standard	N/A
LCS Standard	WP109859
Chk Standard	WP109953,WP109860,WP109865

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	0.0PPM	0.0PPM	CAL1	09/25/24 11:13		NF IZ	OK
2	0.5PPM	0.5PPM	CAL2	09/25/24 12:02		NF IZ	OK
3	1.0PPM	1.0PPM	CAL3	09/25/24 12:52		NF IZ	OK
4	2.0PPM	2.0PPM	CAL4	09/25/24 13:18		NF IZ	OK
5	5.0PPM	5.0PPM	CAL5	09/25/24 13:45		NF IZ	OK
6	10.0PPM	10.0PPM	CAL6	09/25/24 14:12		NF IZ	OK
7	20.0PPM	20.0PPM	CAL7	09/25/24 14:40		NF IZ	OK
8	ICV1	ICV1	ICV	09/25/24 15:07		NF IZ	OK
9	ICB1	ICB1	ICB	09/25/24 15:31		NF IZ	OK
10	IC-20	IC-20	SAM	09/25/24 15:54		NF IZ	OK
11	IC-R	IC-R	SAM	09/25/24 16:18		NF IZ	OK
12	CCV1	CCV1	CCV	09/26/24 09:28		NF IZ	OK
13	CCB1	CCB1	CCB	09/26/24 10:19		NF IZ	OK
14	LB132641BLW	LB132641BLW	MB	09/26/24 10:43		NF IZ	OK
15	LB132641BSW	LB132641BSW	LCS	09/26/24 11:06		NF IZ	OK
16	P3848-03	PT-DEM-WP	SAM	09/26/24 13:56		NF IZ	OK
17	CCV2	CCV2	CCV	09/26/24 14:23		NF IZ	OK
18	CCB2	CCB2	CCB	09/26/24 14:46		NF IZ	OK

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Instrument ID: WC TURBIDIMETER-1

Daily Analysis Runlog For Sequence/QCBatch ID # LB132660

Review By	Niha	Review On	9/30/2024 11:28:44 AM
Supervise By	Iwona	Supervise On	9/30/2024 11:51:32 AM
SubDirectory	LB132660	Test	Turbidity

STD. NAME	STD REF.#
ICAL Standard	N/A
ICV Standard	N/A
CCV Standard	N/A
ICSA Standard	N/A
CRI Standard	N/A
LCS Standard	N/A
Chk Standard	WP109925,WP109927,WP109926,WP109929,WP109928,WP109930,W3116

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	CAL1	CAL1	CAL	09/26/24 10:24		Niha	OK
2	CAL2	CAL2	CAL	09/26/24 10:28		Niha	OK
3	CAL3	CAL3	CAL	09/26/24 10:32		Niha	OK
4	CAL4	CAL4	CAL	09/26/24 10:36		Niha	OK
5	CAL5	CAL5	CAL	09/26/24 10:40		Niha	OK
6	CAL6	CAL6	CAL	09/26/24 10:44		Niha	OK
7	ICV	ICV	ICV	09/26/24 10:48		Niha	OK
8	ICB	ICB	ICB	09/26/24 10:52		Niha	OK
9	CCV1	CCV1	CCV	09/26/24 10:56		Niha	OK
10	CCB1	CCB1	CCB	09/26/24 11:00		Niha	OK
11	LB132660BL	LB132660BL	MB	09/26/24 11:04		Niha	OK
12	P3848-34	PT-TURB-WP	SAM	09/26/24 11:08		Niha	OK
13	CCV2	CCV2	CCV	09/26/24 11:12		Niha	OK
14	CCB2	CCB2	CCB	09/26/24 11:16		Niha	OK

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Instrument ID: TITRAMETRIC

Daily Analysis Runlog For Sequence/QCBatch ID # LB132667

Review By	rubina	Review On	9/30/2024 3:42:17 PM
Supervise By	Iwona	Supervise On	9/30/2024 3:49:17 PM
SubDirectory	LB132667	Test	Sulfide

STD. NAME	STD REF.#
ICAL Standard	N/A
ICV Standard	N/A
CCV Standard	N/A
ICSA Standard	N/A
CRI Standard	N/A
LCS Standard	N/A
Chk Standard	W3105,W3114,W2977

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	PB163761BL	PB163761BL	MB	09/30/24 13:00		rubina	OK
2	PB163761BS	PB163761BS	LCS	09/30/24 13:03		rubina	OK
3	P3848-29	PT-S2-WP	SAM	09/30/24 13:06		rubina	OK
4	P4180-21	5602-75-001-NEUTRA	SAM	09/30/24 13:09		rubina	OK
5	P4180-21DUP	5602-75-001-NEUTRA	DUP	09/30/24 13:12		rubina	OK
6	P4180-21MS	5602-75-001-NEUTRA	MS	09/30/24 13:15		rubina	OK
7	P4180-21MSD	5602-75-001-NEUTRA	MSD	09/30/24 13:18		rubina	OK

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Instrument ID: TITRAMETRIC

Daily Analysis Runlog For Sequence/QCBatch ID # LB132668

Review By	rubina	Review On	9/30/2024 3:51:14 PM
Supervise By	Iwona	Supervise On	9/30/2024 3:51:51 PM
SubDirectory	LB132668	Test	Sulfide

STD. NAME	STD REF.#
ICAL Standard	N/A
ICV Standard	N/A
CCV Standard	N/A
ICSA Standard	N/A
CRI Standard	N/A
LCS Standard	N/A
Chk Standard	W3105,W3114,W2977

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	PB163762BL	PB163762BL	MB	09/30/24 13:21		rubina	OK
2	PB163762BS	PB163762BS	LCS	09/30/24 13:24		rubina	OK
3	P3848-28	PT-S2-WP	SAM	09/30/24 13:27		rubina	OK

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Instrument ID: WC SC-3

Daily Analysis Runlog For Sequence/QCBatch ID # LB132686

Review By	jignesh	Review On	10/2/2024 10:00:41 AM
Supervise By	Iwona	Supervise On	10/2/2024 10:58:27 AM
SubDirectory	LB132686	Test	TS

STD. NAME	STD REF.#
ICAL Standard	N/A
ICV Standard	N/A
CCV Standard	N/A
ICSA Standard	N/A
CRI Standard	N/A
LCS Standard	N/A
Chk Standard	N/A

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	LB132686BL	LB132686BL	MB	10/01/24 11:00		jignesh	OK
2	P3848-10	PT-SOL-WP	SAM	10/01/24 11:00		jignesh	OK
3	P4235-02	A1403	SAM	10/01/24 11:00		jignesh	OK
4	P4235-02DUP	A1403DUP	DUP	10/01/24 11:00		jignesh	OK
5	P4254-05	MH-147	SAM	10/01/24 11:00		jignesh	OK

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Instrument ID: WC SC-3

Daily Analysis Runlog For Sequence/QCBatch ID # LB132691

Review By	jignesh	Review On	10/2/2024 10:36:23 AM
Supervise By	Iwona	Supervise On	10/2/2024 10:58:04 AM
SubDirectory	LB132691	Test	TDS

STD. NAME	STD REF.#
ICAL Standard	N/A
ICV Standard	N/A
CCV Standard	N/A
ICSA Standard	N/A
CRI Standard	N/A
LCS Standard	N/A
Chk Standard	N/A

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	LB132691BL	LB132691BL	MB	10/01/24 17:30		jignesh	OK
2	LB132691BS	LB132691BS	LCS	10/01/24 17:30		jignesh	OK
3	P3848-10	PT-SOL-WP	SAM	10/01/24 17:30		jignesh	OK
4	P4253-01	1 Effluent Composite	SAM	10/01/24 17:30		jignesh	OK
5	P4260-01	TOWER-2	SAM	10/01/24 17:30		jignesh	OK
6	P4260-01DUP	TOWER-2DUP	DUP	10/01/24 17:30		jignesh	OK

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Instrument ID: WC SC-3

Daily Analysis Runlog For Sequence/QCBatch ID # LB132725

Review By	jignesh	Review On	10/3/2024 11:21:56 AM
Supervise By	Iwona	Supervise On	10/3/2024 11:32:04 AM
SubDirectory	LB132725	Test	TSS

STD. NAME	STD REF.#
ICAL Standard	N/A
ICV Standard	N/A
CCV Standard	N/A
ICSA Standard	N/A
CRI Standard	N/A
LCS Standard	N/A
Chk Standard	N/A

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	LB132725BL	LB132725BL	MB	10/03/24 10:00		jignesh	OK
2	LB132725BS	LB132725BS	LCS	10/03/24 10:00		jignesh	OK
3	P3848-10	PT-SOL-WP	SAM	10/03/24 10:00		jignesh	OK
4	P4235-02	A1403	SAM	10/03/24 10:00		jignesh	OK
5	P4235-02DUP	A1403DUP	DUP	10/03/24 10:00		jignesh	OK
6	P4253-01	1 Effluent Composite	SAM	10/03/24 10:00		jignesh	OK
7	P4254-05	MH-147	SAM	10/03/24 10:00		jignesh	OK
8	P4260-01	TOWER-2	SAM	10/03/24 10:00		jignesh	OK
9	P4262-01	14B-1	SAM	10/03/24 10:00		jignesh	OK
10	P4262-02	14B-2	SAM	10/03/24 10:00		jignesh	OK
11	P4262-03	14B-3	SAM	10/03/24 10:00		jignesh	OK
12	P4262-04	14B-4	SAM	10/03/24 10:00		jignesh	OK
13	P4269-02	COMP	SAM	10/03/24 10:00		jignesh	OK
14	P4271-01	14B-1	SAM	10/03/24 10:00		jignesh	OK
15	P4271-02	14B-2	SAM	10/03/24 10:00		jignesh	OK
16	P4271-03	14B-3	SAM	10/03/24 10:00		jignesh	OK
17	P4271-04	14B-4	SAM	10/03/24 10:00		jignesh	OK
18	P4274-01	222254	SAM	10/03/24 10:00		jignesh	OK

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Instrument ID: WC SC-3

Daily Analysis Runlog For Sequence/QCBatch ID # LB132943

Review By	jignesh	Review On	10/17/2024 12:38:23 PM
Supervise By	Iwona	Supervise On	10/17/2024 1:00:05 PM
SubDirectory	LB132943	Test	TVS

STD. NAME	STD REF.#
ICAL Standard	N/A
ICV Standard	N/A
CCV Standard	N/A
ICSA Standard	N/A
CRI Standard	N/A
LCS Standard	N/A
Chk Standard	N/A

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	LB132943BL	LB132943BL	MB	10/15/24 16:00		jignesh	OK
2	P3848-31	PT-VSOL-WP	SAM	10/15/24 16:00		jignesh	OK

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Instrument ID: WC SC-3

Daily Analysis Runlog For Sequence/QCBatch ID # LB132944

Review By	jignesh	Review On	10/17/2024 12:37:16 PM
Supervise By	Iwona	Supervise On	10/17/2024 12:59:40 PM
SubDirectory	LB132944	Test	TVS

STD. NAME	STD REF.#
ICAL Standard	N/A
ICV Standard	N/A
CCV Standard	N/A
ICSA Standard	N/A
CRI Standard	N/A
LCS Standard	N/A
Chk Standard	N/A

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	LB132944BL	LB132944BL	MB	10/15/24 16:00		jignesh	OK
2	P3848-32	PT-VSOL-WP	SAM	10/15/24 16:00		jignesh	OK

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Prep Standard - Chemical Standard Summary

Order ID : P3848

Test : Alkalinity,Ammonia,Anions Group1,Anions Group2,Anions Group4,Anions Group5,BOD5,CBOD5,Chloride,COD,Color,Conductance,Cyanide,Hexavalent Chromium,Nitrite,Oil and Grease pH Phenolics Phosphorus-Ortho Phosphorus-Total Residual Chlorine Settleable

Prepbatch ID : PB163343,PB163389,PB163449,PB163450,PB163477,PB163628,PB163632,PB163640,PB163761,PB163762,

Sequence ID/Qc Batch ID: LB132300,LB132394,LB132404,LB132412,LB132417,LB132418,LB132419,LB132420,LB132434,LB13

Standard ID :
EP2540,WP106911,WP107255,WP107256,WP107283,WP107363,WP107364,WP107435,WP107436,WP107456,WP107527,WP107551,WP107791,WP108075,WP108076,WP108309,WP108475,WP108501,WP108502,WP108503,WP108504,WP108505,WP108534,WP108566,WP108567,WP108568,WP108640,WP108641,WP108657,WP108658,WP108659,WP108660,WP108661,WP108662,WP108663,WP108664,WP108665,WP108666,WP108667,WP108668,WP108669,WP108671,WP108708,WP108709,WP108727,WP108741,WP108780,WP108840,WP108893,WP108958,WP109046,WP109047,WP109068,WP109217,WP109218,WP109316,WP109317,WP109325,WP109326,WP109441,WP109549,WP109581,WP109582,WP109583,WP109584,WP109585,WP109586,WP109587,WP109588,WP109589,WP109631,WP109632,WP109669,WP109680,WP109681,WP109682,WP109683,WP109684,WP109685,WP109686,WP109717,WP109718,WP109719,WP109720,WP109721,WP109722,WP109723,WP109724,WP109725,WP109726,WP109727,WP109728,WP109729,WP109730,WP109731,WP109732,WP109733,WP109734,WP109735,WP109747,WP109748,WP109749,WP109750,WP109751,WP109752,WP109753,WP109754,WP109755,WP109756,WP109757,WP109758,WP109

Chemical ID :
E3551,E3657,E3726,E3788,M5037,M5173,M5211,M5501,M5673,M5884,M5929,M5943,M5951,M6037,M6041,M6069,W1992,W1993,W1994,W2103,W2211,W2306,W2606,W2647,W2650,W2651,W2652,W2653,W2654,W2663,W2664,W2666,W2668,W2676,W2697,W2699,W2700,W2708,W2725,W2784,W2788,W2797,W2800,W2812,W2815,W2817,W2858,W2860,W2862,W2871,W2882,W2926,W2965,W2977,W2979,W2983,W2984,W2988,W3001,W3004,W3005,W3009,W3011,W3016,W3017,W3018,W3019,W3020,W3022,W3035,W3038,W3049,W3054,W3055,W3057,W3058,W3059,W3062,W3063,W3068,W3071,W3072,W3074,W3078,W3079,W3081,W3082,W3083,W3093,W3094,W3095,W3101,W3103,W3104,W3105,W3107,W3109,W3110,W3111,W3112,W3113,W3114,W3116,W3119,W3120,W3121,W3130,W3131,W3132,W3133,W3136,W3138,W3139,W3140,

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Extractions STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3923	Baked Sodium Sulfate	EP2540	09/17/2024	01/03/2025	Rajesh Parikh	Extraction_SCALE_2 (EX-SC-2)	None	RUPESHKUMAR SHAH 09/17/2024

FROM 4000.00000gram of E3551 = Final Quantity: 4000.000 gram

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1211	11 N sulfuric acid	WP106911	03/12/2024	09/12/2024	Rubina Mughal	None	None	Sohil Jodhani 03/12/2024

FROM 306.00000ml of M5673 + 694.00000ml of W2606 = Final Quantity: 1000.000 ml

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Wet Chemistry STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
672	ammonia buffer for phenol	WP107255	04/02/2024	10/02/2024	Rubina Mughal	WETCHEM_SCALE_5 (WCSC-5)	None	Iwona Zarych 04/09/2024

FROM 143.00000ml of W2676 + 16.90000gram of W1992 + 90.10000ml of W2606 = Final Quantity: 250.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1935	Potassium ferricyanide solution-phenol	WP107256	04/02/2024	10/02/2024	Rubina Mughal	WETCHEM_SCALE_5 (WCSC-5)	None	Iwona Zarych 04/09/2024

FROM 8.00000gram of W2211 + 92.00000ml of W2606 = Final Quantity: 100.000 ml

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Wet Chemistry STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
539	CN BUFFER	WP107283	04/04/2024	10/04/2024	Rubina Mughal	WETCHEM_SCALE_5 (WCSC-5)	None	Iwona Zarych 04/09/2024

FROM 138.00000gram of W2668 + 862.00000ml of W2606 = Final Quantity: 1000.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
153	Ammonia Stock Std. (1000 ppm)	WP107363	04/09/2024	10/09/2024	Rubina Mughal	WETCHEM_SCALE_5 (WCSC-5)	None	Iwona Zarych 04/09/2024

FROM 3.81900gram of W1993 + 996.18100ml of W2606 = Final Quantity: 1000.000 ml

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Wet Chemistry STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1895	Ammonia Stock Std, 1000PPM-SS	WP107364	04/09/2024	10/09/2024	Rubina Mughal	WETCHEM_SCALE_5 (WCSC-5)	None	Iwona Zarych 04/09/2024

FROM 3.81900gram of W1992 + 996.18100ml of W2606 = Final Quantity: 1000.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3837	Sulfate Stock Std, 1000PPM	WP107435	04/16/2024	10/16/2024	Rubina Mughal	WETCHEM_SCALE_5 (WCSC-5)	None	Sohil Jodhani 04/19/2024

FROM 1.47900gram of W3054 + 999.00000ml of W2606 = Final Quantity: 1000.000 ml

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Wet Chemistry STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3838	Sulfate Stock Std- SS, 1000PPM	WP107436	04/16/2024	10/16/2024	Rubina Mughal	WETCHEM_SCALE_5 (WCSC-5)	None	Sohil Jodhani 04/19/2024

FROM 1.47900gram of W3055 + 999.00000ml of W2606 = Final Quantity: 1000.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
4035	IC ELUENT CONCENTRATE FOR IC-1	WP107456	04/12/2024	10/12/2024	Iwona Zarych	WETCHEM_SCALE_5 (WCSC-5)	None	Sohil Jodhani 04/19/2024

FROM 2.10000gram of W2647 + 84.75000gram of W2862 + 913.50000ml of W2606 = Final Quantity: 1000.000 ml

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Wet Chemistry STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1597	0.04 N H2SO4	WP107527	04/18/2024	10/18/2024	Rubina Mughal	None	WETCHEM_PIPETTE_3 (WC)	Sohil Jodhani 04/19/2024

FROM 1.00000ml of M5037 + 999.00000ml of W2606 = Final Quantity: 1000.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
540	conductivity standard	WP107551	04/19/2024	10/19/2024	Niha Farheen Shaik	WETCHEM_SCALE_5 (WCSC-5)	None	Iwona Zarych 04/22/2024

FROM 0.74560gram of W2800 + 1000.00000ml of W2606 = Final Quantity: 1000.000 ml

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Wet Chemistry STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
126	5N sulfuric acid	WP107791	05/07/2024	10/24/2024	Niha Farheen Shaik	None	None	Iwona Zarych 05/07/2024

FROM 140.00000ml of M5211 + 860.00000ml of W2606 = Final Quantity: 1.000 L

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3214	Magnesium Chloride For Cyanide 2.5M(51%W/V)	WP108075	05/22/2024	10/24/2024	Rubina Mughal	WETCHEM_SCALE_5 (WCSC-5)	None	Iwona Zarych 05/24/2024

FROM 500.00000ml of W2606 + 510.00000gram of W3001 = Final Quantity: 1000.000 ml

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Wet Chemistry STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1714	Sulfuric Acid, 50% (v/v)	WP108076	05/22/2024	10/24/2024	Rubina Mughal	None	None	Iwona Zarych 05/24/2024

FROM 1000.00000ml of M5673 + 1000.00000ml of W2606 = Final Quantity: 2000.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
740	sodium nitroferricyanide for ammonia	WP108309	05/31/2024	10/24/2024	Rubina Mughal	WETCHEM_SCALE_5 (WCSC-5)	None	Iwona Zarych 06/03/2024

FROM 0.05000gram of W2666 + 99.95000ml of W2606 = Final Quantity: 100.000 ml

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Wet Chemistry STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1841	Sulfuric Acid, 1N	WP108475	06/18/2024	10/24/2024	Rubina Mughal	None	WETCHEM_PIPETTE_3 (WC)	Iwona Zarych 06/20/2024

FROM 2.80000ml of M5037 + 97.20000ml of W2606 = Final Quantity: 100.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
648	Ammonium molybdate solution	WP108501	06/20/2024	10/24/2024	Rubina Mughal	WETCHEM_SCALE_5 (WCSC-5)	None	Iwona Zarych 06/20/2024

FROM 20.00000gram of W2664 + 480.00000ml of W2606 = Final Quantity: 500.000 ml

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Wet Chemistry STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
588	Potassium Antimonyl Tartrate	WP108502	06/20/2024	10/24/2024	Rubina Mughal	WETCHEM_SCALE_5 (WCSC-5)	None	Iwona Zarych 06/20/2024

FROM 1.37150gram of W2306 + 500.00000ml of W2606 = Final Quantity: 500.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
115	Phosphate Stock Std. (50 ppm)	WP108503	06/20/2024	10/24/2024	Rubina Mughal	WETCHEM_SCALE_5 (WCSC-5)	None	Iwona Zarych 06/20/2024

FROM 0.11000gram of W2699 + 500.00000ml of W2606 = Final Quantity: 500.000 ml

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Wet Chemistry STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
2790	Phosphate Stock std, 50PPM-SS	WP108504	06/20/2024	10/24/2024	Rubina Mughal	WETCHEM_SCALE_5 (WCSC-5)	None	Iwona Zarych 06/20/2024

FROM 0.11000gram of W2708 + 500.00000ml of W2606 = Final Quantity: 500.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3890	Chloride Stock Std - 10000ppm	WP108505	06/20/2024	10/24/2024	Rubina Mughal	WETCHEM_SCALE_5 (WCSC-5)	None	Iwona Zarych 06/20/2024

FROM 16.48500gram of M5884 + 985.00000ml of W2606 = Final Quantity: 1000.000 ml

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Wet Chemistry STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3886	Inorganic carbon stock solution, 1000ppm	WP108534	06/24/2024	10/24/2024	Niha Farheen Shaik	WETCHEM_SCALE_5 (WCSC-5)	None	Iwona Zarych 06/26/2024

FROM 3.49700gram of W2647 + 4.41220gram of W2862 + 993.00000ml of W2606 = Final Quantity: 1000.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
229	1:1 HCL	WP108566	06/27/2024	10/24/2024	Jignesh Parikh	None	None	Iwona Zarych 06/27/2024

FROM 500.00000ml of M5943 + 500.00000ml of W2606 = Final Quantity: 1.000 L

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Wet Chemistry STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
2470	1664A SPIKING SOLN	WP108567	06/27/2024	12/25/2024	Jignesh Parikh	None	None	Iwona Zarych 06/27/2024

FROM 1000.00000ml of E3726 + 4.00000gram of W2817 + 4.00000gram of W2871 = Final Quantity: 1000.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3374	1664A QCS spiking solution-SS	WP108568	06/27/2024	12/25/2024	Jignesh Parikh	WETCHEM_SCALE_4 (WCSC-4)	None	Iwona Zarych 06/27/2024

FROM 1000.00000ml of E3726 + 4.00000gram of W3009 + 4.00000gram of W3082 = Final Quantity: 1000.000 ml

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Wet Chemistry STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
11	Sodium hydroxide absorbing solution 0.25 N	WP108640	07/05/2024	01/05/2025	Rubina Mughal	WETCHEM_SCALE_4 (WCSC-4)	None	Iwona Zarych 07/08/2024

FROM 21.00000L of W3112 + 210.00000gram of E3657 = Final Quantity: 21.000 L

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3850	Cyanide MS-MSD spiking solution, 5PPM	WP108641	07/05/2024	09/30/2024	Rubina Mughal	None	WETCHEM_PIPETTE_3 (WC)	Iwona Zarych 07/08/2024

FROM 1.00000ml of W3104 + 199.00000ml of WP108640 = Final Quantity: 200.000 ml

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Wet Chemistry STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
619	TKN digestion solution	WP108657	07/09/2024	01/09/2025	Rubina Mughal	WETCHEM_SCALE_4 (WCSC-4)	None	Iwona Zarych 07/09/2024

FROM 134.00000gram of W2983 + 134.00000ml of M5673 + 7.30000gram of W2697 + 725.00000ml of W3112 = Final Quantity: 1000.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1993	HEXAVALENTCHROMIUM STOCK STD 1, 50PPM	WP108658	07/09/2024	01/09/2025	Rubina Mughal	WETCHEM_SCALE_5 (WCSC-5)	None	Iwona Zarych 07/09/2024

FROM 0.14140gram of W2651 + 1000.00000ml of W3112 = Final Quantity: 1000.000 ml

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Wet Chemistry STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1994	HEXAVALENTCHROMIUM STOCK STD 2, 50PPM	WP108659	07/09/2024	01/09/2025	Rubina Mughal	WETCHEM_SCALE_5 (WCSC-5)	None	Iwona Zarych 07/09/2024

FROM 0.14140gram of W2652 + 1000.00000ml of W3112 = Final Quantity: 1000.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1471	NaOH Solution, 6N	WP108660	07/09/2024	01/09/2025	Rubina Mughal	WETCHEM_SCALE_5 (WCSC-5)	None	Iwona Zarych 07/09/2024

FROM 240.00000gram of W3113 + 760.00000ml of W3112 = Final Quantity: 1000.000 ml

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Wet Chemistry STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1796	NaOH, 0.1N	WP108661	07/09/2024	01/09/2025	Rubina Mughal	WETCHEM_SCALE_5 (WCSC-5)	None	Iwona Zarych 07/09/2024

FROM 4.00000gram of W3113 + 996.00000ml of W3112 = Final Quantity: 1000.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1571	Sodium hydroxide, 1N	WP108662	07/09/2024	01/09/2025	Rubina Mughal	WETCHEM_SCALE_5 (WCSC-5)	None	Iwona Zarych 07/11/2024

FROM 4.00000gram of W3113 + 96.00000ml of W3112 = Final Quantity: 100.000 ml

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Wet Chemistry STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
2456	COD Stock std, 1000ppm	WP108663	07/09/2024	07/16/2024	Niha Farheen Shaik	WETCHEM_SCALE_5 (WCSC-5)	None	Iwona Zarych 07/11/2024

FROM 0.08500gram of W2784 + 100.00000ml of W3112 = Final Quantity: 100.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
2457	COD Stock std-SS, 1000ppm	WP108664	07/09/2024	07/16/2024	Niha Farheen Shaik	WETCHEM_SCALE_5 (WCSC-5)	None	Iwona Zarych 07/11/2024

FROM 0.08500gram of W3111 + 100.00000ml of W3112 = Final Quantity: 100.000 ml

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Wet Chemistry STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
139	COD calibration std. 0 ppm	WP108665	07/09/2024	07/16/2024	Niha Farheen Shaik	None	None	Iwona Zarych 07/11/2024

FROM 10.00000ml of W3112 = Final Quantity: 10.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
138	COD calibration std. 10 ppm	WP108666	07/09/2024	07/16/2024	Niha Farheen Shaik	None	WETCHEM_PIPETTE_3 (WC)	Iwona Zarych 07/11/2024

FROM 9.90000ml of W3112 + 0.10000ml of WP108663 = Final Quantity: 10.000 ml

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Wet Chemistry STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
137	COD calibration std. 50 ppm	WP108667	07/09/2024	07/16/2024	Niha Farheen Shaik	None	WETCHEM_PIPETTE_3 (WC)	Iwona Zarych 07/11/2024

FROM 9.50000ml of W3112 + 0.50000ml of WP108663 = Final Quantity: 10.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
136	COD calibration std. 100 ppm	WP108668	07/09/2024	07/16/2024	Niha Farheen Shaik	None	WETCHEM_PIPETTE_3 (WC)	Iwona Zarych 07/11/2024

FROM 9.00000ml of W3112 + 1.00000ml of WP108663 = Final Quantity: 10.000 ml

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Wet Chemistry STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
135	COD calibration std. 150 ppm	WP108669	07/09/2024	07/16/2024	Niha Farheen Shaik	None	WETCHEM_PIPETTE_3 (WC)	Iwona Zarych 07/11/2024

FROM 8.50000ml of W3112 + 1.50000ml of WP108663 = Final Quantity: 10.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
2459	COD ICV-LCS std, 50ppm	WP108671	07/09/2024	07/16/2024	Niha Farheen Shaik	None	WETCHEM_PIPETTE_3 (WC)	Iwona Zarych 07/11/2024

FROM 9.50000ml of W3112 + 0.50000ml of WP108664 = Final Quantity: 10.000 ml

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Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1494	BORATE BUFFER	WP108708	07/11/2024	01/09/2025	Rubina Mughal	WETCHEM_SCALE_5 (WCSC-5)	None	Mohan Bera 07/17/2024

FROM 0.90250L of W3112 + 9.50000gram of W2700 + 88.00000ml of WP108661 = Final Quantity: 1.000 L

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
290	Phenol reagent for Ammonia	WP108709	07/11/2024	01/11/2025	Rubina Mughal	WETCHEM_SCALE_5 (WCSC-5)	None	Mohan Bera 07/17/2024

FROM 3.20000gram of W3113 + 8.30000gram of W2858 + 88.80000ml of W3112 = Final Quantity: 100.000 ml

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Wet Chemistry STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1213	Phenolphthalein indicator	WP108727	07/12/2024	01/12/2025	Niha Farheen Shaik	WETCHEM_SCALE_3 (WCSC-3)	None	Mohan Bera 07/17/2024

FROM 0.10000gram of W2650 + 50.00000ml of W2788 + 50.00000ml of W3112 = Final Quantity: 100.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
289	Sodium Hypochlorite for Ammonia	WP108741	07/16/2024	09/30/2024	Niha Farheen Shaik	None	WETCHEM_PIPETTE_3 (WC)	Mohan Bera 07/17/2024

FROM 50.00000ml of W3112 + 50.00000ml of W3120 = Final Quantity: 100.000 ml

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Wet Chemistry STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
160	0.5M ZINC ACETATE	WP108780	07/22/2024	12/08/2024	Rubina Mughal	WETCHEM_SCALE_5 (WCSC-5)	WETCHEM_PIPETTE_3 (WC)	Iwona Zarych 07/23/2024

FROM 0.88900L of W3112 + 1.00000ml of M5929 + 110.00000gram of W2926 = Final Quantity: 1000.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
635	EDTA BUFFER FOR AMMONIA	WP108840	07/26/2024	01/26/2025	Rubina Mughal	WETCHEM_SCALE_5 (WCSC-5)	None	Iwona Zarych 07/26/2024

FROM 5.50000gram of W3113 + 50.00000gram of W3132 + 950.00000ml of W3112 = Final Quantity: 1000.000 ml

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Wet Chemistry STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1105	conditioning reagent	WP108893	07/30/2024	12/27/2024	Rubina Mughal	WETCHEM_SCALE_5 (WCSC-5)	None	Iwona Zarych 07/30/2024

FROM 100.00000ml of W2788 + 30.00000ml of M5951 + 300.00000ml of W3112 + 50.00000ml of W2812 + 75.00000gram of M5884 = Final Quantity: 500.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1647	Sulfate Buffer solution A	WP108958	07/30/2024	01/30/2025	Niha Farheen Shaik	WETCHEM_SCALE_5 (WCSC-5)	None	Mohan Bera 08/02/2024

FROM 1.00000gram of W3119 + 20.00000ml of W3038 + 30.00000gram of W3001 + 5.00000gram of W2984 + 944.00000ml of W3112 = Final Quantity: 1000.000 ml

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Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1903	Phenol stock std, 1000PPM	WP109046	08/06/2024	02/06/2025	Rubina Mughal	WETCHEM_SCALE_5 (WCSC-5)	None	Iwona Zarych 08/06/2024

FROM 1.00000gram of W2663 + 999.00000ml of W3112 = Final Quantity: 1000.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1904	Phenol stock std, 1000PPM-SS	WP109047	08/06/2024	02/06/2025	Rubina Mughal	WETCHEM_SCALE_5 (WCSC-5)	None	Iwona Zarych 08/06/2024

FROM 1.00000gram of W2858 + 999.00000ml of W3112 = Final Quantity: 1000.000 ml

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Wet Chemistry STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
607	PYRIDINE-BARBITURIC ACID	WP109068	08/06/2024	12/08/2024	Niha Farheen Shaik	WETCHEM_SCALE_5 (WCSC-5)	None	Iwona Zarych 08/07/2024

FROM 145.00000ml of W3112 + 15.00000gram of W2882 + 15.00000ml of M5929 + 75.00000ml of W3019 = Final Quantity: 250.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
2050	TOC STOCK STD, 4000PPM	WP109217	08/07/2024	01/18/2025	Iwona Zarych	WETCHEM_SCALE_5 (WCSC-5)	WETCHEM_PIPETTE_3 (WC)	Mohan Bera 08/16/2024

FROM 5.00000ml of W2860 + 8.51200gram of W3111 + 990.00000ml of W3112 = Final Quantity: 1000.000 ml

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Wet Chemistry STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
2051	TOC STOCK STD-SS, 4000PPM	WP109218	08/07/2024	02/07/2025	Iwona Zarych	WETCHEM_SCALE_5 (WCSC-5)	WETCHEM_PIPETTE_3 (WC)	Mohan Bera 08/16/2024

FROM 5.00000ml of W2860 + 8.51200gram of W2784 + 990.00000ml of W3112 = Final Quantity: 1000.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1322	Ammonia Intermediate Std, 50PPM	WP109316	08/19/2024	09/19/2024	Rubina Mughal	None	WETCHEM_PIPETTE_3 (WC)	Iwona Zarych 08/20/2024

FROM 95.00000ml of W3112 + 5.00000ml of WP107363 = Final Quantity: 100.000 ml

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Wet Chemistry STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1639	Ammonia Intermediate Std-Second source, 50PPM	WP109317	08/19/2024	09/19/2024	Rubina Mughal	None	WETCHEM_PIPETTE_3 (WC)	Iwona Zarych 08/20/2024

FROM 95.00000ml of W3112 + 5.00000ml of WP107364 = Final Quantity: 100.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
922	0.2N SULFURIC ACID	WP109325	08/19/2024	02/19/2025	Rubina Mughal	None	WETCHEM_PIPETTE_3 (WC)	Iwona Zarych 08/20/2024

FROM 5.60000ml of M5173 + 994.40000ml of W3112 = Final Quantity: 1000.000 ml

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Wet Chemistry STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3898	Mixed indicator reagent for Chloride more than 100ppm	WP109326	08/19/2024	09/19/2024	Niha Farheen Shaik	WETCHEM_SCALE_4 (WCSC-4)	None	Iwona Zarych 08/20/2024

FROM 0.05000gram of W2797 + 0.50000gram of W3049 + 99.00000ml of W2788 = Final Quantity: 100.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1338	TKN DISTILLING BUFFER	WP109441	08/29/2024	02/28/2025	Rubina Mughal	WETCHEM_SCALE_5 (WCSC-5)	None	Iwona Zarych 08/30/2024

FROM 0.47500L of W3112 + 25.00000gram of W3136 + 500.00000gram of W3113 = Final Quantity: 1.000 L

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Wet Chemistry STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3371	Cyanide LCS Spike Solution, 5PPM	WP109549	09/06/2024	01/05/2025	Niha Farheen Shaik	None	WETCHEM_PIPETTE_3 (WC)	Iwona Zarych 09/06/2024

FROM 1.00000ml of W3138 + 199.00000ml of WP108640 = Final Quantity: 200.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
122	calibration std. 0 ppm	WP109581	09/06/2024	09/13/2024	Niha Farheen Shaik	None	None	Iwona Zarych 09/06/2024

FROM 100.00000ml of W3112 = Final Quantity: 100.000 ml

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Wet Chemistry STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
121	calibration std. phosphate 0.05 ppm	WP109582	09/06/2024	09/13/2024	Niha Farheen Shaik	None	WETCHEM_PIPETTE_3 (WC)	Iwona Zarych 09/06/2024

FROM 99.90000ml of W3112 + 0.10000ml of WP108503 = Final Quantity: 100.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
120	calibration std. phosphate 0.1 ppm	WP109583	09/06/2024	09/13/2024	Niha Farheen Shaik	None	WETCHEM_PIPETTE_3 (WC)	Iwona Zarych 09/06/2024

FROM 99.80000ml of W3112 + 0.20000ml of WP108503 = Final Quantity: 100.000 ml

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Wet Chemistry STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
119	calibration std. phosphate 0.3 ppm	WP109584	09/06/2024	09/13/2024	Niha Farheen Shaik	None	WETCHEM_PIPETTE_3 (WC)	Iwona Zarych 09/06/2024

FROM 99.40000ml of W3112 + 0.60000ml of WP108503 = Final Quantity: 100.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
118	calibration std. phosphate 0.5 ppm	WP109585	09/06/2024	09/13/2024	Niha Farheen Shaik	None	WETCHEM_PIPETTE_3 (WC)	Iwona Zarych 09/06/2024

FROM 99.00000ml of W3112 + 1.00000ml of WP108503 = Final Quantity: 100.000 ml

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Wet Chemistry STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
117	calibration std. phosphate 1 ppm	WP109586	09/06/2024	09/13/2024	Niha Farheen Shaik	None	None	Iwona Zarych 09/06/2024

FROM 98.00000ml of W3112 + 2.00000ml of WP108503 = Final Quantity: 100.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3805	Phosphate ICV-LCS Std	WP109587	09/06/2024	09/13/2024	Niha Farheen Shaik	None	None	Iwona Zarych 09/06/2024

FROM 99.00000ml of W3112 + 1.00000ml of WP108504 = Final Quantity: 100.000 ml

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Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
124	phosphate CCV std.	WP109588	09/06/2024	09/16/2024	Niha Farheen Shaik	None	None	Iwona Zarych 09/06/2024

FROM 99.00000ml of W3112 + 1.00000ml of WP108503 = Final Quantity: 100.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
590	Ascorbic Acid	WP109589	09/06/2024	09/13/2024	Niha Farheen Shaik	WETCHEM_SCALE_5 (WCSC-5)	None	Iwona Zarych 09/06/2024

FROM 0.52800gram of W3074 + 30.00000ml of W3112 = Final Quantity: 30.000 ml

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Wet Chemistry STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1478	Phenol Intermediate Std - 50PPM	WP109631	09/10/2024	10/10/2024	Rubina Mughal	None	WETCHEM_PIPETTE_3 (WC)	Jignesh Parikh 09/10/2024

FROM 47.50000ml of W3112 + 2.50000ml of WP109046 = Final Quantity: 50.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1635	Phenol Intermediate Std Second Source-50PPM	WP109632	09/10/2024	10/10/2024	Rubina Mughal	None	WETCHEM_PIPETTE_3 (WC)	Jignesh Parikh 09/10/2024

FROM 47.50000ml of W3112 + 2.50000ml of WP109047 = Final Quantity: 50.000 ml

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Wet Chemistry STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
658	Combined reagent	WP109669	09/12/2024	09/13/2024	Niha Farheen Shaik	None	None	Iwona Zarych 09/13/2024

FROM 15.00000ml of WP108501 + 30.00000ml of WP109589 + 5.00000ml of WP108502 + 50.00000ml of WP107791 = Final Quantity: 100.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
127	BOD Dilution fluid	WP109680	09/12/2024	09/13/2024	Rubina Mughal	None	None	Iwona Zarych 09/13/2024

FROM 18.00000L of W3112 + 3.00000PILLOW of W3057 = Final Quantity: 18.000 L

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Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
129	Glutamic acid-glucose mix for BOD	WP109681	09/12/2024	09/13/2024	Rubina Mughal	WETCHEM_SCALE_7 (WCSC-6)	None	Iwona Zarych 09/13/2024

FROM 0.15000gram of W2653 + 0.15000gram of W2654 + 1000.00000ml of W3112 = Final Quantity: 1000.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
128	polyseed seed control	WP109682	09/12/2024	09/13/2024	Rubina Mughal	None	None	Iwona Zarych 09/13/2024

FROM 1.00000PILLOW of W3059 + 300.00000ml of WP109680 = Final Quantity: 300.000 ml

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Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
295	TKN Calibration Std (10 ppm)	WP109683	09/12/2024	09/19/2024	Rubina Mughal	None	WETCHEM_PIPETTE_3 (WC)	Iwona Zarych 09/13/2024

FROM 49.50000ml of W3112 + 0.50000ml of WP107363 = Final Quantity: 50.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
297	TKN CCV STD 5 ppm	WP109684	09/12/2024	09/19/2024	Rubina Mughal	None	WETCHEM_PIPETTE_3 (WC)	Iwona Zarych 09/13/2024

FROM 49.75000ml of W3112 + 0.25000ml of WP107363 = Final Quantity: 50.000 ml

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Wet Chemistry STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
296	TKN ICV STD 5 ppm	WP109685	09/12/2024	09/19/2024	Rubina Mughal	None	WETCHEM_PIPETTE_3 (WC)	Iwona Zarych 09/13/2024

FROM 49.75000ml of W3112 + 0.25000ml of WP107364 = Final Quantity: 50.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
298	TKN LCS STD 5 ppm	WP109686	09/12/2024	09/19/2024	Rubina Mughal	None	WETCHEM_PIPETTE_3 (WC)	Iwona Zarych 09/13/2024

FROM 49.75000ml of W3112 + 0.25000ml of WP107364 = Final Quantity: 50.000 ml

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Wet Chemistry STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
2487	Anions 300/9056 calibration standard 1	WP109717	09/16/2024	09/17/2024	Niha Farheen Shaik	None	None	Iwona Zarych 09/17/2024

FROM 10.00000ml of W3112 = Final Quantity: 10.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
24	Anions 300/9056 calibration standard 2	WP109718	09/16/2024	09/17/2024	Niha Farheen Shaik	None	WETCHEM_PIPETTE_3 (WC)	Iwona Zarych 09/17/2024

FROM 0.20000ml of W3063 + 9.80000ml of W3112 = Final Quantity: 10.000 ml

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Wet Chemistry STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
25	Anions 300/9056 calibration standard 3	WP109719	09/16/2024	09/17/2024	Niha Farheen Shaik	None	WETCHEM_PIPETTE_3 (WC)	Iwona Zarych 09/17/2024

FROM 0.40000ml of W3063 + 9.60000ml of W3112 = Final Quantity: 10.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
26	Anions 300/9056 calibration standard 4	WP109720	09/16/2024	09/17/2024	Niha Farheen Shaik	None	WETCHEM_PIPETTE_3 (WC)	Iwona Zarych 09/17/2024

FROM 0.50000ml of W3063 + 9.50000ml of W3112 = Final Quantity: 10.000 ml

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Wet Chemistry STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3680	Anions 300/9056 calibration standard 5-CCV	WP109721	09/16/2024	09/17/2024	Niha Farheen Shaik	None	None	Iwona Zarych 09/17/2024

FROM 45.00000ml of W3112 + 5.00000ml of W3063 = Final Quantity: 50.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3679	Anions 300/9056 calibration standard 6	WP109722	09/16/2024	09/17/2024	Niha Farheen Shaik	None	None	Iwona Zarych 09/17/2024

FROM 2.00000ml of W3063 + 8.00000ml of W3112 = Final Quantity: 10.000 ml

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Wet Chemistry STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3681	Anions 300/9056 calibration standard 7	WP109723	09/16/2024	09/17/2024	Niha Farheen Shaik	None	None	Iwona Zarych 09/17/2024

FROM 2.50000ml of W3063 + 7.50000ml of W3112 = Final Quantity: 10.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3233	Anions 300/9056 ICV-LCS std	WP109724	09/16/2024	09/17/2024	Niha Farheen Shaik	None	None	Iwona Zarych 09/17/2024

FROM 45.00000ml of W3112 + 5.00000ml of W3062 = Final Quantity: 50.000 ml

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Wet Chemistry STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
4036	IC ELUENT FOR IC-1	WP109725	09/16/2024	10/16/2024	Niha Farheen Shaik	None	None	Iwona Zarych 09/17/2024

FROM 1980.00000ml of W3112 + 20.00000ml of WP107456 = Final Quantity: 2000.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
4037	IC H2SO4 FOR IC-1	WP109726	09/16/2024	10/16/2024	Niha Farheen Shaik	None	None	Iwona Zarych 09/17/2024

FROM 1980.00000ml of W3112 + 5.60000ml of M5673 = Final Quantity: 2000.000 ml

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Wet Chemistry STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3443	Residual chlorine std, Intermediate 10PPM	WP109727	09/16/2024	09/17/2024	Niha Farheen Shaik	None	None	Iwona Zarych 09/17/2024

FROM 42.75000ml of W3112 + 7.25000ml of W3130 = Final Quantity: 50.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3444	Residual chlorine std, Intermediate-SS 10PPM	WP109728	09/16/2024	09/17/2024	Niha Farheen Shaik	None	None	Iwona Zarych 09/17/2024

FROM 42.50000ml of W3112 + 7.50000ml of W3131 = Final Quantity: 50.000 ml

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Wet Chemistry STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3710	Chlorine Calibration std, 0.0ppm	WP109729	09/16/2024	09/17/2024	Niha Farheen Shaik	None	None	Iwona Zarych 09/17/2024

FROM 50.00000ml of W3112 = Final Quantity: 50.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3707	Chlorine Calibration std, 0.1ppm	WP109730	09/16/2024	09/17/2024	Niha Farheen Shaik	None	WETCHEM_PIPETTE_3 (WC)	Iwona Zarych 09/17/2024

FROM 49.50000ml of W3112 + 0.50000ml of WP109727 = Final Quantity: 50.000 ml

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Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3708	Chlorine Calibration std, 0.2ppm	WP109731	09/16/2024	09/17/2024	Niha Farheen Shaik	None	WETCHEM_PIPETTE_3 (WC)	Iwona Zarych 09/17/2024

FROM 49.00000ml of W3112 + 1.00000ml of WP109727 = Final Quantity: 50.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3709	Chlorine Calibration std, 0.8ppm	WP109732	09/16/2024	09/17/2024	Niha Farheen Shaik	None	None	Iwona Zarych 09/17/2024

FROM 46.00000ml of W3112 + 4.00000ml of WP109727 = Final Quantity: 50.000 ml

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Wet Chemistry STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3711	Chlorine Calibration std, 1.6ppm	WP109733	09/16/2024	09/17/2024	Niha Farheen Shaik	None	None	Iwona Zarych 09/17/2024

FROM 42.00000ml of W3112 + 8.00000ml of WP109727 = Final Quantity: 50.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3799	Residual Chlorine Calibration and CCV std, 0.4PPM	WP109734	09/16/2024	09/17/2024	Niha Farheen Shaik	None	None	Iwona Zarych 09/17/2024

FROM 96.00000ml of W3112 + 4.00000ml of WP109727 = Final Quantity: 100.000 ml

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Wet Chemistry STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3452	Residual chlorine ICV-LCS, 0.4PPM	WP109735	09/16/2024	09/17/2024	Niha Farheen Shaik	None	None	Iwona Zarych 09/17/2024

FROM 48.00000ml of W3112 + 2.00000ml of WP109728 = Final Quantity: 50.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1103	HEX CHROME INTERMEDIATE STD SOURCE 1 (5PPM)	WP109747	09/17/2024	09/18/2024	Rubina Mughal	None	WETCHEM_PIPETTE_3 (WC)	Iwona Zarych 09/17/2024

FROM 9.00000ml of W3112 + 1.00000ml of WP108658 = Final Quantity: 10.000 ml

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Wet Chemistry STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
110	calibration std. hexchrome 0 ppm	WP109748	09/17/2024	09/18/2024	Rubina Mughal	None	None	Iwona Zarych 09/17/2024

FROM 100.00000ml of W3112 = Final Quantity: 100.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
109	calibration std. hexchrome 0.01 ppm	WP109749	09/17/2024	09/18/2024	Rubina Mughal	None	WETCHEM_PIPETTE_3 (WC)	Iwona Zarych 09/17/2024

FROM 99.80000ml of W3112 + 0.20000ml of WP109747 = Final Quantity: 100.000 ml

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Wet Chemistry STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3800	Calibration Std Hexachrome 0.025 ppm	WP109750	09/17/2024	09/18/2024	Rubina Mughal	None	WETCHEM_PIPETTE_3 (WC)	Iwona Zarych 09/17/2024

FROM 99.50000ml of W3112 + 0.50000ml of WP109747 = Final Quantity: 100.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
108	Calibration Std. hexchrome 0.05 ppm	WP109751	09/17/2024	09/18/2024	Rubina Mughal	None	WETCHEM_PIPETTE_3 (WC)	Iwona Zarych 09/17/2024

FROM 99.00000ml of W3112 + 1.00000ml of WP109747 = Final Quantity: 100.000 ml

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Wet Chemistry STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
107	Calibration Std. hexchrome 0.1 ppm	WP109752	09/17/2024	09/18/2024	Rubina Mughal	None	WETCHEM_PIPETTE_3 (WC)	Iwona Zarych 09/17/2024

FROM 99.80000ml of W3112 + 0.20000ml of WP108658 = Final Quantity: 100.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3808	Calibration and CCV std HexChrome 0.5PPM	WP109753	09/17/2024	09/18/2024	Rubina Mughal	None	WETCHEM_PIPETTE_3 (WC)	Iwona Zarych 09/17/2024

FROM 99.00000ml of W3112 + 1.00000ml of WP108658 = Final Quantity: 100.000 ml

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Wet Chemistry STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3809	Calibration std HexChrome 1.0PPM	WP109754	09/17/2024	09/18/2024	Rubina Mughal	None	WETCHEM_PIPETTE_3 (WC)	Iwona Zarych 09/17/2024

FROM 98.00000ml of W3112 + 2.00000ml of WP108658 = Final Quantity: 100.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3804	Hexavalent Chromium ICV-LCS Std	WP109755	09/17/2024	09/18/2024	Rubina Mughal	None	WETCHEM_PIPETTE_3 (WC)	Iwona Zarych 09/17/2024

FROM 99.00000ml of W3112 + 1.00000ml of WP108659 = Final Quantity: 100.000 ml

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Wet Chemistry STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
114	hexavalent chromium color reagent	WP109756	09/17/2024	09/24/2024	Rubina Mughal	WETCHEM_SCALE_5 (WCSC-5)	None	Iwona Zarych 09/17/2024

FROM 0.25000gram of W2979 + 50.00000ml of E3788 = Final Quantity: 50.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3680	Anions 300/9056 calibration standard 5-CCV	WP109757	09/17/2024	09/18/2024	Niha Farheen Shaik	None	None	Iwona Zarych 09/17/2024

FROM 45.00000ml of W3112 + 5.00000ml of W3063 = Final Quantity: 50.000 ml

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Wet Chemistry STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3233	Anions 300/9056 ICV-LCS std	WP109758	09/17/2024	09/18/2024	Niha Farheen Shaik	None	None	Iwona Zarych 09/17/2024

FROM 45.00000ml of W3112 + 5.00000ml of W3062 = Final Quantity: 50.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1849	Buffer Color reagent NO2	WP109759	09/17/2024	10/17/2024	Niha Farheen Shaik	WETCHEM_SCALE_5 (WCSC-5)	None	Iwona Zarych 09/17/2024

FROM 0.10000gram of W2103 + 1.00000gram of W3083 + 10.00000ml of W2860 + 90.00000ml of W3112 = Final Quantity: 100.000 ml

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Wet Chemistry STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3482	Nitrite Calibration Std-0.6PPM	WP109760	09/17/2024	09/18/2024	Niha Farheen Shaik	None	WETCHEM_PIPETTE_3 (WC)	Iwona Zarych 09/19/2024

FROM 1.00000ml of W3063 + 49.00000ml of W3112 = Final Quantity: 50.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3483	Nitrite CCV Std-0.3PPM	WP109761	09/17/2024	09/18/2024	Niha Farheen Shaik	None	WETCHEM_PIPETTE_3 (WC)	Iwona Zarych 09/19/2024

FROM 0.50000ml of W3063 + 49.50000ml of W3112 = Final Quantity: 50.000 ml

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Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3484	Nitrite ICV-LCSW Std-0.3PPM	WP109762	09/17/2024	09/18/2024	Niha Farheen Shaik	None	WETCHEM_PIPETTE_3 (WC)	Iwona Zarych 09/19/2024

FROM 0.50000ml of W3062 + 49.50000ml of W3112 = Final Quantity: 50.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3806	HNO3 0.1N for Chloride	WP109766	09/18/2024	02/02/2025	Niha Farheen Shaik	None	WETCHEM_PIPETTE_3 (WC)	Iwona Zarych 09/19/2024

FROM 0.64000ml of M6037 + 99.36000ml of W3112 = Final Quantity: 100.000 ml

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Wet Chemistry STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3891	Chloride LCS Std - 500ppm	WP109767	09/18/2024	09/19/2024	Niha Farheen Shaik	None	WETCHEM_PIPETTE_3 (WC)	Iwona Zarych 09/19/2024

FROM 19.00000ml of W3112 + 1.00000ml of WP108505 = Final Quantity: 20.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
275	Ammonia Calibration Std. (2 ppm)	WP109768	09/18/2024	09/19/2024	Rubina Mughal	None	WETCHEM_PIPETTE_3 (WC)	Iwona Zarych 09/19/2024

FROM 48.00000ml of W3112 + 2.00000ml of WP109316 = Final Quantity: 50.000 ml

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Wet Chemistry STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
285	Ammonia CCV Std. (1 ppm)	WP109769	09/18/2024	09/19/2024	Rubina Mughal	None	WETCHEM_PIPETTE_3 (WC)	Iwona Zarych 09/19/2024

FROM 49.00000ml of W3112 + 1.00000ml of WP109316 = Final Quantity: 50.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
286	Ammonia ICV Std. (1 ppm)	WP109770	09/18/2024	09/19/2024	Rubina Mughal	None	WETCHEM_PIPETTE_3 (WC)	Iwona Zarych 09/19/2024

FROM 49.00000ml of W3112 + 1.00000ml of WP109317 = Final Quantity: 50.000 ml

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Wet Chemistry STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
2456	COD Stock std, 1000ppm	WP109774	09/19/2024	09/26/2024	Niha Farheen Shaik	WETCHEM_SCALE_5 (WCSC-5)	None	Iwona Zarych 09/19/2024

FROM 0.08500gram of W3111 + 100.00000ml of W3112 = Final Quantity: 100.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
2457	COD Stock std-SS, 1000ppm	WP109775	09/19/2024	09/26/2024	Niha Farheen Shaik	WETCHEM_SCALE_5 (WCSC-5)	None	Iwona Zarych 09/19/2024

FROM 0.08500gram of W3111 + 100.00000gram of W2784 = Final Quantity: 100.000 ml

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Wet Chemistry STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
2458	COD CCV std, 50ppm	WP109776	09/19/2024	09/26/2024	Niha Farheen Shaik	None	WETCHEM_PIPETTE_3 (WC)	Iwona Zarych 09/19/2024

FROM 9.50000ml of W3112 + 0.50000ml of WP109774 = Final Quantity: 10.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
2459	COD ICV-LCS std, 50ppm	WP109777	09/19/2024	09/26/2024	Niha Farheen Shaik	None	WETCHEM_PIPETTE_3 (WC)	Iwona Zarych 09/19/2024

FROM 9.50000ml of W3112 + 0.50000ml of WP109775 = Final Quantity: 10.000 ml

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Wet Chemistry STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3407	Acidity-Alkalinity Stock Std(-+2500PPM)	WP109778	09/19/2024	09/26/2024	Iwona Zarych	WETCHEM_SCALE_5 (WCSC-5)	None	Mohan Bera 09/24/2024

FROM 0.62500gram of W3058 + 249.40000ml of W3112 = Final Quantity: 250.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
293	alkalinity LCSW 50 ppm	WP109779	09/19/2024	09/26/2024	Iwona Zarych	None	WETCHEM_PIPETTE_3 (WC)	Mohan Bera 09/24/2024

FROM 196.00000ml of W3112 + 4.00000ml of WP109778 = Final Quantity: 200.000 ml

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Wet Chemistry STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
506	4-AMINOANTIPYRINE	WP109780	09/19/2024	09/20/2024	Rubina Mughal	WETCHEM_SCALE_5 (WCSC-5)	Glass Pipette-A	Mohan Bera 09/24/2024

FROM 0.40000gram of W3004 + 20.00000ml of W3112 = Final Quantity: 20.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1633	Phenol Calibration Std, 2PPM	WP109781	09/19/2024	09/20/2024	Rubina Mughal	None	WETCHEM_PIPETTE_3 (WC)	Mohan Bera 09/24/2024

FROM 48.00000ml of W3112 + 2.00000ml of WP109631 = Final Quantity: 50.000 ml

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Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1634	Phenol CCV Std, 1PPM	WP109782	09/19/2024	09/20/2024	Rubina Mughal	None	WETCHEM_PIPETTE_3 (WC)	Mohan Bera 09/24/2024

FROM 49.00000ml of W3112 + 1.00000ml of WP109631 = Final Quantity: 50.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1636	Phenol ICV Std, 1PPM	WP109783	09/19/2024	09/20/2024	Rubina Mughal	None	WETCHEM_PIPETTE_3 (WC)	Mohan Bera 09/24/2024

FROM 49.00000ml of W3112 + 1.00000ml of WP109632 = Final Quantity: 50.000 ml

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Wet Chemistry STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3700	Sulfate Calibration std, 0ppm	WP109806	09/20/2024	09/27/2024	Niha Farheen Shaik	None	WETCHEM_PIPETTE_3 (WC)	Mohan Bera 09/24/2024

FROM 99.50000ml of W3112 = Final Quantity: 100.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3705	Sulfate Calibration std, 5ppm	WP109807	09/20/2024	09/27/2024	Niha Farheen Shaik	None	WETCHEM_PIPETTE_3 (WC)	Mohan Bera 09/24/2024

FROM 99.50000ml of W3112 + 0.50000ml of WP107435 = Final Quantity: 100.000 ml

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Wet Chemistry STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3701	Sulfate Calibration std, 10ppm	WP109808	09/20/2024	09/27/2024	Niha Farheen Shaik	None	WETCHEM_PIPETTE_3 (WC)	Mohan Bera 09/24/2024

FROM 99.00000ml of W3112 + 1.00000ml of WP107435 = Final Quantity: 100.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3698	Sulfate Calibration std, 15ppm	WP109809	09/20/2024	09/27/2024	Niha Farheen Shaik	None	WETCHEM_PIPETTE_3 (WC)	Mohan Bera 09/24/2024

FROM 98.50000ml of W3112 + 1.50000ml of WP107435 = Final Quantity: 100.000 ml

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Wet Chemistry STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3702	Sulfate Calibration std, 20ppm	WP109810	09/20/2024	09/27/2024	Niha Farheen Shaik	None	None	Mohan Bera 09/24/2024

FROM 98.00000ml of W3112 + 2.00000ml of WP107435 = Final Quantity: 100.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3699	Sulfate Calibration std, 25ppm	WP109811	09/20/2024	09/27/2024	Niha Farheen Shaik	None	None	Mohan Bera 09/24/2024

FROM 97.50000ml of W3112 + 2.50000ml of WP107435 = Final Quantity: 100.000 ml

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Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3703	Sulfate Calibration std, 30ppm	WP109812	09/20/2024	09/27/2024	Niha Farheen Shaik	None	None	Mohan Bera 09/24/2024

FROM 97.00000ml of W3112 + 3.00000ml of WP107435 = Final Quantity: 100.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3706	Sulfate Calibration std, 35ppm	WP109813	09/20/2024	09/27/2024	Niha Farheen Shaik	None	None	Mohan Bera 09/24/2024

FROM 96.50000ml of W3112 + 3.50000ml of WP107435 = Final Quantity: 100.000 ml

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Wet Chemistry STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3704	Sulfate Calibration std, 40ppm	WP109814	09/20/2024	09/27/2024	Niha Farheen Shaik	None	None	Mohan Bera 09/24/2024

FROM 96.00000ml of W3112 + 4.00000ml of WP107435 = Final Quantity: 100.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
359	sulfate CCV 20ppm	WP109815	09/20/2024	09/27/2024	Niha Farheen Shaik	None	None	Mohan Bera 09/24/2024

FROM 98.00000ml of W3112 + 2.00000ml of WP107435 = Final Quantity: 100.000 ml

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Wet Chemistry STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
360	sulfate ICV 20ppm	WP109816	09/20/2024	09/27/2024	Niha Farheen Shaik	None	None	Mohan Bera 09/24/2024

FROM 98.00000ml of W3112 + 2.00000ml of WP107436 = Final Quantity: 100.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3415	Sulfate LCS std, 20ppm	WP109817	09/20/2024	09/27/2024	Niha Farheen Shaik	None	None	Mohan Bera 09/24/2024

FROM 98.00000ml of W3112 + 2.00000ml of WP107436 = Final Quantity: 100.000 ml

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Wet Chemistry STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
122	calibration std. 0 ppm	WP109818	09/20/2024	09/27/2024	Niha Farheen Shaik	None	None	Mohan Bera 09/24/2024

FROM 100.00000ml of W3112 = Final Quantity: 100.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
121	calibration std. phosphate 0.05 ppm	WP109819	09/20/2024	09/27/2024	Niha Farheen Shaik	None	WETCHEM_PIPETTE_3 (WC)	Mohan Bera 09/24/2024

FROM 99.90000ml of W3112 + 0.10000ml of WP108503 = Final Quantity: 100.000 ml

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Wet Chemistry STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
119	calibration std. phosphate 0.3 ppm	WP109820	09/20/2024	09/27/2024	Niha Farheen Shaik	None	WETCHEM_PIPETTE_3 (WC)	Mohan Bera 09/24/2024

FROM 99.40000ml of W3112 + 0.60000ml of WP108503 = Final Quantity: 100.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
120	calibration std. phosphate 0.1 ppm	WP109821	09/20/2024	09/27/2024	Niha Farheen Shaik	None	WETCHEM_PIPETTE_3 (WC)	Mohan Bera 09/24/2024

FROM 99.80000ml of W3112 + 0.20000ml of WP108503 = Final Quantity: 100.000 ml

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Wet Chemistry STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
118	calibration std. phosphate 0.5 ppm	WP109822	09/20/2024	09/27/2024	Niha Farheen Shaik	None	WETCHEM_PIPETTE_3 (WC)	Mohan Bera 09/24/2024

FROM 99.00000ml of W3112 + 1.00000ml of WP108503 = Final Quantity: 100.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
117	calibration std. phosphate 1 ppm	WP109823	09/20/2024	09/27/2024	Niha Farheen Shaik	None	None	Mohan Bera 09/24/2024

FROM 98.00000ml of W3112 + 2.00000ml of WP108503 = Final Quantity: 100.000 ml

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Wet Chemistry STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3805	Phosphate ICV-LCS Std	WP109824	09/20/2024	09/27/2024	Niha Farheen Shaik	None	WETCHEM_PIPETTE_3 (WC)	Mohan Bera 09/24/2024

FROM 99.00000ml of W3112 + 1.00000ml of WP108504 = Final Quantity: 100.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
124	phosphate CCV std.	WP109825	09/20/2024	09/27/2024	Niha Farheen Shaik	None	WETCHEM_PIPETTE_3 (WC)	Mohan Bera 09/24/2024

FROM 99.00000ml of W3112 + 1.00000ml of WP108503 = Final Quantity: 100.000 ml

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Wet Chemistry STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
590	Ascorbic Acid	WP109826	09/20/2024	09/27/2024	Niha Farheen Shaik	WETCHEM_SCALE_5 (WCSC-5)	None	Mohan Bera 09/24/2024

FROM 0.52800gram of W3074 + 30.00000ml of W3112 = Final Quantity: 30.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
658	Combined reagent	WP109827	09/20/2024	09/21/2024	Niha Farheen Shaik	None	None	Mohan Bera 09/24/2024

FROM 15.00000ml of WP108501 + 30.00000ml of WP109826 + 5.00000ml of WP108502 + 50.00000ml of WP107791 = Final Quantity: 100.000 ml

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Wet Chemistry STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3888	TOC Water Intermediate std-200ppm	WP109850	09/24/2024	10/01/2024	Niha Farheen Shaik	None	None	Mohan Bera 09/24/2024

FROM 95.00000ml of W3112 + 5.00000ml of WP109217 = Final Quantity: 100.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3889	TOC Water Intermediate std SS-200ppm	WP109851	09/24/2024	10/01/2024	Niha Farheen Shaik	None	None	Mohan Bera 09/24/2024

FROM 95.00000ml of W3112 + 5.00000ml of WP109218 = Final Quantity: 100.000 ml

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Wet Chemistry STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
304	TOC CAL 0.00ppm	WP109852	09/24/2024	10/01/2024	Niha Farheen Shaik	None	None	Mohan Bera 09/24/2024

FROM 100.00000ml of W3112 = Final Quantity: 100.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
305	TOC CAL 0.5ppm	WP109853	09/24/2024	10/01/2024	Niha Farheen Shaik	None	WETCHEM_PIPETTE_3 (WC)	Mohan Bera 09/24/2024

FROM 99.75000ml of W3112 + 0.25000ml of WP109850 = Final Quantity: 100.000 ml

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Wet Chemistry STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
306	TOC CAL 1.0PPM	WP109854	09/24/2024	10/01/2024	Niha Farheen Shaik	None	WETCHEM_PIPETTE_3 (WC)	Mohan Bera 09/24/2024

FROM 99.50000ml of W3112 + 0.50000ml of WP109850 = Final Quantity: 100.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
307	TOC CAL 2.0PPM	WP109855	09/24/2024	10/01/2024	Niha Farheen Shaik	None	WETCHEM_PIPETTE_3 (WC)	Mohan Bera 09/24/2024

FROM 99.00000ml of W3112 + 1.00000ml of WP109850 = Final Quantity: 100.000 ml

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Wet Chemistry STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
308	TOC CAL 5.0PPM	WP109856	09/24/2024	10/01/2024	Niha Farheen Shaik	None	None	Mohan Bera 09/24/2024

FROM 97.50000ml of W3112 + 2.50000ml of WP109850 = Final Quantity: 100.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
310	TOC CAL 20.0PPM	WP109857	09/24/2024	10/01/2024	Niha Farheen Shaik	None	None	Mohan Bera 09/24/2024

FROM 90.00000ml of W3112 + 10.00000ml of WP109850 = Final Quantity: 100.000 ml

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Wet Chemistry STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3331	TOC CAL-CCV std, 10PPM	WP109858	09/24/2024	10/01/2024	Niha Farheen Shaik	None	None	Mohan Bera 09/24/2024

FROM 190.00000ml of W3112 + 10.00000ml of WP109850 = Final Quantity: 200.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1650	TOC ICV/LCS STD. 10PPM	WP109859	09/24/2024	10/01/2024	Niha Farheen Shaik	None	None	Mohan Bera 09/24/2024

FROM 190.00000ml of W3112 + 10.00000ml of WP109851 = Final Quantity: 200.000 ml

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Wet Chemistry STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3887	Inorganic carbon solution, 20ppm	WP109860	09/24/2024	10/01/2024	Niha Farheen Shaik	None	WETCHEM_PIPETTE_3 (WC)	Mohan Bera 09/24/2024

FROM 49.00000ml of W3112 + 1.00000ml of WP108534 = Final Quantity: 50.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
4003	Solution A	WP109861	09/24/2024	10/01/2024	Niha Farheen Shaik	WETCHEM_SCALE_5 (WCSC-5)	None	Mohan Bera 09/24/2024

FROM 1000.00000ml of W3112 + 2.56500gram of W3018 = Final Quantity: 1000.000 ml

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Wet Chemistry STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
4004	Solution B	WP109862	09/24/2024	10/01/2024	Niha Farheen Shaik	WETCHEM_SCALE_5 (WCSC-5)	None	Mohan Bera 09/24/2024

FROM 0.24800gram of W3020 + 0.28100gram of M5501 + 0.28300gram of W2800 + 0.59400gram of W1993 + 1000.00000ml of W3112 + 2.05000gram of W3017 = Final Quantity: 1000.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
4005	Solution C	WP109863	09/24/2024	10/01/2024	Niha Farheen Shaik	WETCHEM_SCALE_5 (WCSC-5)	None	Mohan Bera 09/24/2024

FROM 0.70500gram of W3016 + 1000.00000ml of W3112 + 2.80600gram of W2647 = Final Quantity: 1000.000 ml

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Wet Chemistry STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
4006	Solution D	WP109864	09/24/2024	10/01/2024	Niha Farheen Shaik	WETCHEM_SCALE_5 (WCSC-5)	None	Mohan Bera 09/24/2024

FROM 1.86200gram of W3022 + 1000.00000ml of W3112 = Final Quantity: 1000.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
4007	IC-removal check solution	WP109865	09/24/2024	10/01/2024	Niha Farheen Shaik	None	WETCHEM_PIPETTE_3 (WC)	Mohan Bera 09/24/2024

FROM 0.04000ml of M6041 + 10.00000ml of WP109861 + 10.00000ml of WP109862 + 10.00000ml of WP109863 + 10.00000ml of WP109864 = Final Quantity: 40.000 ml

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Wet Chemistry STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3456	Cyanide Intermediate Working Std, 5PPM	WP109866	09/24/2024	09/25/2024	Niha Farheen Shaik	None	WETCHEM_PIPETTE_3 (WC)	Mohan Bera 09/24/2024

FROM 0.25000ml of W3104 + 49.75000ml of WP108640 = Final Quantity: 50.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
4	Calibation standard 500 ppb	WP109869	09/24/2024	09/25/2024	Niha Farheen Shaik	None	WETCHEM_PIPETTE_3 (WC)	Mohan Bera 09/24/2024

FROM 45.00000ml of WP108640 + 5.00000ml of WP109866 = Final Quantity: 50.000 ml

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Wet Chemistry STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3761	Calibration-CCV CN Standard 250 ppb	WP109870	09/24/2024	09/25/2024	Niha Farheen Shaik	None	WETCHEM_PIPETTE_3 (WC)	Mohan Bera 09/24/2024

FROM 2.50000ml of WP109866 + 47.50000ml of WP108640 = Final Quantity: 50.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
6	Calibration Standard 100 ppb	WP109871	09/24/2024	09/25/2024	Niha Farheen Shaik	None	WETCHEM_PIPETTE_3 (WC)	Mohan Bera 09/24/2024

FROM 1.00000ml of WP109866 + 49.00000ml of WP108640 = Final Quantity: 50.000 ml

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Wet Chemistry STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
7	Calibration Standard 50 ppb	WP109872	09/24/2024	09/25/2024	Niha Farheen Shaik	None	WETCHEM_PIPETTE_3 (WC)	Mohan Bera 09/24/2024

FROM 0.50000ml of WP109866 + 49.50000ml of WP108640 = Final Quantity: 50.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
8	Calibration Standard 10 ppb	WP109873	09/24/2024	09/25/2024	Niha Farheen Shaik	None	WETCHEM_PIPETTE_3 (WC)	Mohan Bera 09/24/2024

FROM 1.00000ml of WP109869 + 49.00000ml of WP108640 = Final Quantity: 50.000 ml

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Wet Chemistry STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
9	Calibration Standard 5 ppb	WP109874	09/24/2024	09/25/2024	Niha Farheen Shaik	None	WETCHEM_PIPETTE_3 (WC)	Mohan Bera 09/24/2024

FROM 0.50000ml of WP109869 + 49.50000ml of WP108640 = Final Quantity: 50.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
167	0 ppb CN calibration std	WP109875	09/24/2024	09/25/2024	Niha Farheen Shaik	None	None	Mohan Bera 09/24/2024

FROM 50.00000ml of WP108640 = Final Quantity: 50.000 ml

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Wet Chemistry STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1582	Chloramine T solution, 0.014M	WP109876	09/24/2024	09/25/2024	Niha Farheen Shaik	WETCHEM_SCALE_5 (WCSC-5)	None	Mohan Bera 09/24/2024

FROM 0.08000gram of W3139 + 20.00000ml of W3112 = Final Quantity: 20.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1103	HEX CHROME INTERMEDIATE STD SOURCE 1 (5PPM)	WP109877	09/24/2024	09/25/2024	Rubina Mughal	None	WETCHEM_PIPETTE_3 (WC)	Mohan Bera 09/24/2024

FROM 9.00000ml of W3112 + 1.00000ml of WP108658 = Final Quantity: 10.000 ml

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Wet Chemistry STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
110	calibration std. hexchrome 0 ppm	WP109878	09/24/2024	09/25/2024	Rubina Mughal	None	None	Mohan Bera 09/24/2024

FROM 100.00000ml of W3112 = Final Quantity: 100.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
109	calibration std. hexchrome 0.01 ppm	WP109879	09/24/2024	09/25/2024	Rubina Mughal	None	WETCHEM_PIPETTE_3 (WC)	Mohan Bera 09/24/2024

FROM 99.80000ml of W3112 + 0.20000ml of WP109877 = Final Quantity: 100.000 ml

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Wet Chemistry STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3800	Calibration Std Hexachrome 0.025 ppm	WP109880	09/24/2024	09/25/2024	Rubina Mughal	None	WETCHEM_PIPETTE_3 (WC)	Mohan Bera 09/24/2024

FROM 99.50000ml of W3112 + 0.50000ml of WP109877 = Final Quantity: 100.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
108	Calibration Std. hexchrome 0.05 ppm	WP109881	09/24/2024	09/25/2024	Rubina Mughal	None	WETCHEM_PIPETTE_3 (WC)	Mohan Bera 09/24/2024

FROM 99.00000ml of W3112 + 1.00000ml of WP109877 = Final Quantity: 100.000 ml

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Wet Chemistry STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
107	Calibration Std. hexchrome 0.1 ppm	WP109882	09/24/2024	09/25/2024	Rubina Mughal	None	WETCHEM_PIPETTE_3 (WC)	Mohan Bera 09/24/2024

FROM 99.80000ml of W3112 + 0.20000ml of WP108658 = Final Quantity: 100.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3808	Calibration and CCV std HexChrome 0.5PPM	WP109883	09/24/2024	09/25/2024	Rubina Mughal	None	WETCHEM_PIPETTE_3 (WC)	Mohan Bera 09/24/2024

FROM 99.00000ml of W3112 + 1.00000ml of WP108658 = Final Quantity: 100.000 ml

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Wet Chemistry STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3809	Calibration std HexChrome 1.0PPM	WP109884	09/24/2024	09/25/2024	Rubina Mughal	None	WETCHEM_PIPETTE_3 (WC)	Mohan Bera 09/24/2024

FROM 98.00000ml of W3112 + 2.00000ml of WP108658 = Final Quantity: 100.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3804	Hexavalent Chromium ICV-LCS Std	WP109885	09/24/2024	09/25/2024	Rubina Mughal	None	WETCHEM_PIPETTE_3 (WC)	Mohan Bera 09/24/2024

FROM 99.00000ml of W3112 + 1.00000ml of WP108659 = Final Quantity: 100.000 ml

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Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
114	hexavalent chromium color reagent	WP109886	09/24/2024	10/01/2024	Rubina Mughal	WETCHEM_SCALE_5 (WCSC-5)	None	Mohan Bera 09/24/2024

FROM 0.25000gram of W2979 + 50.00000ml of E3788 = Final Quantity: 50.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
4	Calibation standard 500 ppb	WP109888	09/25/2024	09/26/2024	Niha Farheen Shaik	None	None	Iwona Zarych 09/26/2024

FROM 45.00000ml of WP108640 + 5.00000ml of WP109866 = Final Quantity: 50.000 ml

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Wet Chemistry STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3761	Calibration-CCV CN Standard 250 ppb	WP109889	09/25/2024	09/26/2024	Niha Farheen Shaik	None	None	Iwona Zarych 09/26/2024

FROM 2.50000ml of WP109866 + 47.50000ml of WP108640 = Final Quantity: 50.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
6	Calibration Standard 100 ppb	WP109890	09/25/2024	09/26/2024	Niha Farheen Shaik	None	None	Iwona Zarych 09/26/2024

FROM 1.00000ml of WP109866 + 49.00000ml of WP108640 = Final Quantity: 50.000 ml

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Wet Chemistry STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
7	Calibration Standard 50 ppb	WP109891	09/25/2024	09/26/2024	Niha Farheen Shaik	None	WETCHEM_PIPETTE_3 (WC)	Iwona Zarych 09/26/2024

FROM 0.50000ml of WP109866 + 49.50000ml of WP108640 = Final Quantity: 50.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
8	Calibration Standard 10 ppb	WP109892	09/25/2024	09/26/2024	Niha Farheen Shaik	None	WETCHEM_PIPETTE_3 (WC)	Iwona Zarych 09/26/2024

FROM 1.00000ml of WP109888 + 49.00000ml of WP108640 = Final Quantity: 50.000 ml

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Wet Chemistry STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
9	Calibration Standard 5 ppb	WP109893	09/25/2024	09/26/2024	Niha Farheen Shaik	None	WETCHEM_PIPETTE_3 (WC)	Iwona Zarych 09/26/2024

FROM 0.50000ml of WP109888 + 49.50000ml of WP108640 = Final Quantity: 50.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
167	0 ppb CN calibration std	WP109894	09/25/2024	09/26/2024	Niha Farheen Shaik	None	None	Iwona Zarych 09/26/2024

FROM 50.00000ml of WP108640 = Final Quantity: 50.000 ml

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Wet Chemistry STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1582	Chloramine T solution, 0.014M	WP109895	09/25/2024	09/26/2024	Niha Farheen Shaik	WETCHEM_SCALE_5 (WCSC-5)	None	Iwona Zarych 09/26/2024

FROM 0.08000gram of W3139 + 20.00000ml of W3112 = Final Quantity: 20.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1843	HEXAMETHYLENETETRAMINE SOLUTION 1	WP109919	09/25/2024	10/02/2024	Iwona Zarych	None	WETCHEM_PIPETTE_3 (WC)	Jignesh Parikh 10/07/2024

FROM 10.00000gram of W3081 + 90.00000ml of W3112 = Final Quantity: 100.000 ml

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Wet Chemistry STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1167	hydrazine sulfate solution 1	WP109920	09/25/2024	10/02/2024	Iwona Zarych	None	WETCHEM_PIPETTE_3 (WC)	Jignesh Parikh 10/07/2024

FROM 1.00000gram of W3078 + 99.00000ml of W3112 = Final Quantity: 100.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1102	Formazin turbidity 400 NTU suspension	WP109924	09/25/2024	10/02/2024	Iwona Zarych	None	Glass Pipette-A	Jignesh Parikh 10/07/2024

FROM 90.00000ml of W3112 + 5.00000ml of WP109919 + 5.00000ml of WP109920 = Final Quantity: 100.000 ml

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Wet Chemistry STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3713	Turbidity Calibration std, 0NTU	WP109925	09/26/2024	09/27/2024	Niha Farheen Shaik	None	None	Iwona Zarych 09/27/2024

FROM 90.00000ml of W3112 = Final Quantity: 100.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3718	Turbidity Calibration std, 40NTU	WP109926	09/26/2024	09/27/2024	Niha Farheen Shaik	None	None	Iwona Zarych 09/27/2024

FROM 90.00000ml of W3112 + 10.00000ml of WP109924 = Final Quantity: 100.000 ml

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Wet Chemistry STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3714	Turbidity Calibration std, 20NTU	WP109927	09/26/2024	09/27/2024	Niha Farheen Shaik	None	None	Iwona Zarych 09/27/2024

FROM 95.00000ml of W3112 + 5.00000ml of WP109924 = Final Quantity: 100.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3722	Turbidity Calibration std, 5NTU	WP109928	09/26/2024	09/27/2024	Niha Farheen Shaik	None	None	Iwona Zarych 09/27/2024

FROM 87.50000ml of W3112 + 12.50000ml of WP109926 = Final Quantity: 100.000 ml

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Wet Chemistry STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3720	Turbidity Calibration std, 1NTU	WP109929	09/26/2024	09/27/2024	Niha Farheen Shaik	None	None	Iwona Zarych 09/27/2024

FROM 97.50000ml of W3112 + 2.50000ml of WP109926 = Final Quantity: 100.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3807	Turbidity Calibration - CCV std, 10 NTU	WP109930	09/26/2024	09/27/2024	Niha Farheen Shaik	None	None	Iwona Zarych 09/27/2024

FROM 97.50000ml of W3112 + 2.50000ml of WP109924 = Final Quantity: 100.000 ml

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Wet Chemistry STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
613	Phosphoric acid reagent	WP109953	09/25/2024	03/25/2025	Niha Farheen Shaik	None	None	Iwona Zarych 09/27/2024

FROM 150.00000ml of W3112 + 50.00000ml of W2860 = Final Quantity: 200.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3311	Sulfide Int std, 1000PPM	WP109964	09/30/2024	10/01/2024	Rubina Mughal	WETCHEM_SCALE_5 (WCSC-5)	None	Iwona Zarych 10/01/2024

FROM 0.75000gram of W1994 + 99.00000ml of W3112 = Final Quantity: 100.000 ml

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Wet Chemistry STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3312	Sulfide std, 25PPM	WP109965	09/30/2024	10/01/2024	Rubina Mughal	None	WETCHEM_PIPETTE_3 (WC)	Iwona Zarych 10/01/2024

FROM 48.75000ml of W3112 + 1.25000ml of WP109964 = Final Quantity: 50.000 ml

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Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	PC19631-100 / SODIUM SULFATE, ANHYDROUS, PEST GRADE, 1	313201	01/03/2025	01/03/2024 / Rajesh	07/20/2023 / Rajesh	E3551

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	PC19510-5 / Sodium Hydroxide Pellets 2.5 Kg, Pk of 4	23B1556310	12/31/2025	12/04/2023 / Rajesh	12/01/2023 / Rajesh	E3657

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9254-03 / Acetone, Ultra Resi (cs/4x4L)	1234	12/25/2024	02/26/2024 / Rajesh	02/23/2024 / Rajesh	E3726

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9254-03 / Acetone, Ultra Resi (cs/4x4L)	23H1462005	04/23/2025	08/13/2024 / Rajesh	08/13/2024 / Rajesh	E3788

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9673-33 / Sulfuric Acid, Instra-Analyzed (cs/6c2.5L)	0000250349	12/15/2024	01/06/2022 / mohan	09/18/2021 / mohan	M5037

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9673-33 / Sulfuric Acid, Instra-Analyzed (cs/6c2.5L)	0000281827	06/02/2025	06/01/2022 /	04/05/2022 / william	M5173

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Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9673-33 / Sulfuric Acid, Instra-Analyzed (cs/6c2.5L)	22D0862014	01/20/2025	08/22/2022 / mohan	04/26/2022 / mohan	M5211

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-3624-05 / Sodium Chloride, Crystal (cs/4x2.5kg)	0000281938	07/06/2026	07/24/2023 / mohan	04/14/2023 / mohan	M5501

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9673-33 / Sulfuric Acid, Instra-Analyzed (cs/6c2.5L)	23D2462010	03/20/2028	09/21/2023 / mohan	09/05/2023 / mohan	M5673

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-3624-05 / Sodium Chloride, Crystal (cs/4x2.5kg)	0000281938	07/06/2026	04/30/2024 / mohan	04/25/2024 / mohan	M5884

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9530-33 / Hydrochloric Acid, Instra-Analyzed (cs/6x2.5L)	22G2862015	12/08/2024	06/24/2024 / Al-Terek	06/07/2024 / Al-Terek	M5929

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9530-33 / Hydrochloric Acid, Instra-Analyzed (cs/6x2.5L)	22G2862015	12/24/2024	06/24/2024 / Al-Terek	06/21/2024 / Al-Terek	M5943

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Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9530-33 / Hydrochloric Acid, Instra-Analyzed (cs/6x2.5L)	22G2862015	12/27/2024	07/04/2024 / Jaswal	06/23/2024 / Al-Terek	M5951

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9598-34 / Nitric Acid, Instra-Analyzed (cs/4x2.5L)	24D1062002	02/02/2025	08/24/2024 / Janvi	08/01/2024 / Janvi	M6037

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9673-33 / Sulfuric Acid, Instra-Analyzed (cs/6c2.5L)	23D2462010	03/20/2028	08/16/2024 / mohan	08/16/2024 / mohan	M6041

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	140440 / TEST PAPERS,PH,0-2.5,.2SENSI, 100PK	80A0441	02/29/2028	09/03/2024 / jignesh	08/19/2024 / Jaswal	M6069

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	J0660-1 / AMMONIUM CHLORIDE, ACS, 500G	WL13B	04/08/2025	04/08/2015 / apatel	04/08/2015 / apatel	W1992

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	J0660-1 / AMMONIUM CHLORIDE, ACS, 500G	XE09B	04/08/2025	04/08/2015 / apatel	04/08/2015 / apatel	W1993

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Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	J3910-1 / Sodium Sulfide, 500 g	WK21A	04/09/2025	04/09/2015 / apatel	04/09/2015 / apatel	W1994

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
VWR Scientific	102572-606 / N-(1-Naphthyl)ethylene diamine dihydrochloride, 100 gms	00815-1734-1015-	04/22/2026	04/22/2016 / apatel	04/22/2016 / apatel	W2103

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	97062-260 / POTASSIUM FERRICYANIDE ACS GRADE 500G	1136C335	03/01/2027	03/01/2017 / apatel	02/28/2017 / apatel	W2211

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	A1561-500GM / POTASSIUM ANTIMONY TARTRATE TRIHYDRATE, 500G	2GH0057	12/11/2027	12/11/2017 / apatel	12/11/2017 / apatel	W2306

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	DIW / DI Water	Daily Lab-Certified	10/24/2024	10/24/2019 / apatel	10/24/2019 / apatel	W2606

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	J3506-5 / SODIUM BICARBONATE, PWD, ACS, 2.5KG	0000240594	06/03/2026	02/24/2020 / AMANDEEP	01/20/2020 / apatel	W2647

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Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	J2870-1 / PHENOLPHTHALEIN, INDICATOR F/TITRATION, 500G	0000235350	06/04/2025	01/31/2020 / AMANDEEP	01/20/2020 / apatel	W2650

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	AA13450-36 / Potassium Dichromate, 500g(NEW)	T15F019	01/24/2030	01/24/2020 / apatel	01/24/2020 / apatel	W2651

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	P188-500 / Potassium Dichromate, 500g(new-2nd lot)	194664	01/24/2030	01/24/2020 / apatel	01/24/2020 / apatel	W2652

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	AC156212500 / GLUTAMIC ACID BIOCHEM REG, 250G	A0405990	01/24/2030	01/24/2020 / apatel	01/24/2020 / apatel	W2653

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	D16-500 / DEXTROSE ANHYDROUS ACS REAGENT, 500G(New)	186122A	01/24/2030	01/24/2020 / apatel	01/24/2020 / apatel	W2654

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	P1060-10 / PHENOL, ACS, 500G	2HD0179	01/27/2030	01/27/2020 / apatel	01/27/2020 / apatel	W2663

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Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	J07716-1 / Ammonium Molybdate 500G	0000234410	02/11/2026	02/10/2020 / AMANDEEP	01/31/2020 / apatel	W2664

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	87683 / Sodium Nitroferricyanide 250g	W12F013	02/10/2030	02/10/2020 / apatel	02/10/2020 / apatel	W2666

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	J3818-5 / SODIUM PHOSPHATE, MONOBAS/HYD, CRYS, ACS, 2.5 KG	0000225799	12/03/2025	04/05/2021 / Alexander	02/10/2020 / apatel	W2668

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	J9721-3 / Ammonium Hydroxide, 2.5 L	0000246506	10/14/2024	02/18/2020 / apatel	02/18/2020 / apatel	W2676

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	0330-500G / Cupric Sulfate Pentahydrate	CPECG2635	04/23/2025	04/23/2020 / apatel	04/23/2020 / apatel	W2697

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	J3246-1 / POTAS PHOSPHATE, MONO, CRYS, ACS, 500G	04/2019-20	04/23/2025	04/23/2020 / apatel	03/11/2020 / apatel	W2699

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Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	J3568-1 / Sodium Borate, 500 gms	2019111354	04/23/2025	04/23/2020 / apatel	03/11/2020 / apatel	W2700

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	J3246-1 / POTAS PHOSPHATE, MONO, CRYS, ACS, 500G	99/2019-20	05/05/2025	05/05/2020 / apatel	05/05/2020 / apatel	W2708

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	EMD-FX0410-5 / FORMALDEHYDE SOLUTION 450ML	60045	06/22/2025	08/19/2024 / Iwona	06/22/2020 / apatel	W2725

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	P243-500 / Potassium Hydrogen Phthalate, 500 gms	201089	06/30/2025	12/23/2020 / apatel	12/16/2020 / apatel	W2784

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	PC16721-3 / Isopropanol, 99%	C20F23007	06/23/2025	12/30/2020 / apatel	12/30/2020 / apatel	W2788

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	AA32641-06 / BROMOPHENOL BLUE ACS 5G	W2AG026	01/29/2026	01/29/2021 / apatel	01/29/2021 / apatel	W2797

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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	J3040-1 / POTASSIUM CHLORIDE, CRYS, ACS, 500G	198947	09/30/2025	03/08/2021 / apatel	03/08/2021 / apatel	W2800

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	AC410985000 / Glycerin, Anhydrous, 500 ml	B0541750B	10/31/2025	03/29/2021 / apatel	03/29/2021 / apatel	W2812

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
HACH	14064-99 / Total Chlorine Powder Pillows	A0357	12/31/2025	04/15/2024 / Iwona	03/29/2021 / apatel	W2815

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	A12244 / Stearic acid, 98%, 100 g	U20E006	04/02/2026	04/02/2021 / apatel	04/02/2021 / apatel	W2817

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	P1060-10 / PHENOL, ACS, 500G	M13H048	01/07/2026	07/07/2021 / apatel	07/07/2021 / apatel	W2858

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	J0260-3 / Phosphoric Acid, 2.5 L	0000278313	01/31/2026	07/12/2021 / apatel	07/12/2021 / apatel	W2860

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Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	EM-SX0395-3 / SODIUM CARBONATE ANHYDR 2.5KG	20A225205	07/13/2026	07/19/2023 / Al-Terek	07/13/2021 / apatel	W2862

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	H223-57 / Hexadecane, 99.0%	0000266903	05/04/2027	09/07/2021 / apatel	08/26/2021 / apatel	W2871

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	EM-BX0035-3 / Barbituric Acid, 100 gms	1.00132.0100	04/30/2025	12/07/2021 / apatel	11/30/2021 / apatel	W2882

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	J4296-1 / ZINC ACETATE,DIHYD,CRYS,ACS,500G	383058	07/05/2027	07/05/2022 / ketankumar	07/05/2022 / ketankumar	W2926

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	140730 / TEST PAPER,POT.IOD-STRCH,PK100,CS12	60799-008,260	09/19/2027	09/19/2022 / jignesh	09/19/2022 / jignesh	W2965

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	AL70850-8 / Starch Solution, 4L	4210G90	10/31/2024	11/15/2022 / Iwona	11/15/2022 / Iwona	W2977

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Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	31390 / 1,5-Diphenylcarbazide	MKCR6636	12/09/2027	12/09/2022 / Iwona	12/09/2022 / Iwona	W2979

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	J3278-5 / Potassium Sulfate, 2.5 Kgs	SLCM9788	11/21/2027	11/21/2022 / Iwona	11/21/2022 / Iwona	W2983

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	7372-12 / Sodium Acetate, Anhydrous	MKCR6583	04/30/2026	12/12/2022 / Iwona	12/12/2022 / Iwona	W2984

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	AL74050-8 / SULFURIC ACID, 0.02N, 4L	22J0661073	09/22/2024	12/29/2022 / Iwona	12/29/2022 / Iwona	W2988

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	01237-10KG / Megnasium Chloride Hexahydrate ACS 10KG	002251-03319	06/06/2027	01/23/2023 / Iwona	06/06/2022 / Iwona	W3001

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	JA630-5 / 4-aminoanti pyrine, 100 gm	50001601	01/31/2025	01/24/2023 / Iwona	01/24/2023 / Iwona	W3004

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Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	AL13850-1 / Buffer Solution, PH2 (500ml)	4212E45	12/31/2024	01/31/2023 / Iwona	01/31/2023 / Iwona	W3005

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	H223-57 / Hexadecane, 99.0%	SHBP8192	02/27/2028	02/27/2023 / Iwona	02/27/2023 / Iwona	W3009

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
EPA	/ ICV-CN	ICV6-400	12/31/2024	01/03/2024 / Iwona	02/20/2020 / Iwona	W3011

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
SIGMA ALDRICH	S9390-100G / Sodium phosphate dibasic heptahydrate	SLCP6576	11/30/2025	04/03/2023 / Iwona	04/03/2023 / Iwona	W3016

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
SIGMA ALDRICH	C7902-500G / Calcium chloride dihydrate - 500G	SLCP4280	08/31/2025	04/03/2023 / Iwona	04/03/2023 / Iwona	W3017

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	J2500-1 / MAGNESIUM SULFATE 7-HYDRATE CRYSTALS 500G	SLCN3621	12/31/2024	04/03/2023 / Iwona	04/03/2023 / Iwona	W3018

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Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
SIGMA ALDRICH	270970-1L / Pyridine 1L	SHBQ2113	04/03/2028	04/03/2023 / Iwona	04/03/2023 / Iwona	W3019

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Thermo Fisher Scientific	012364.36 / Calcium nitrate tetrahydrate, ACS, 99.0-103.0%	MKCS4612	09/30/2025	04/03/2023 / Iwona	04/03/2023 / Iwona	W3020

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
SIGMA ALDRICH	S4392-250G / Sodium metasilicate nonahydrate	SLCM8472	03/31/2025	04/05/2023 / Iwona	04/05/2023 / Iwona	W3022

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	BDH0214-500G / Ammonium Persulfate Crystal, 500g	MKCR9319	06/30/2028	03/05/2024 / Iwona	06/06/2023 / Iwona	W3035

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	PC01050-3 / ACETIC ACID, GLACIAL, ACS, 2.5L	511115	06/19/2028	06/20/2023 / jignesh	06/19/2023 / jignesh	W3038

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	LC136757 / S-DIPHENYLCARBAZONE 10G	43031219	08/09/2028	08/09/2023 / Iwona	08/09/2023 / Iwona	W3049

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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	EM-SX0761-1 / SODIUM SULFATE ANHY POWDER 500GM	SLCN4535	05/31/2025	10/16/2023 / Iwona	09/14/2023 / Iwona	W3054

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	EM-SX0761-1 / SODIUM SULFATE ANHY POWDER 500GM	SLCP7811	11/30/2025	10/16/2023 / Iwona	09/14/2023 / Iwona	W3055

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
HACH	1486266 / BOD Nutrient Buffer Pillows, 6 mL concentrate to make 6 L, 50/pk	A3178	08/31/2028	06/21/2024 / Rubina	10/18/2023 / Iwona	W3057

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	EM-SX0395-3 / SODIUM CARBONATE ANHYDR 2.5KG	2023012653	10/19/2028	09/03/2024 / jignesh	10/19/2023 / Iwona	W3058

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	136742-80 / POLYSEED	152305	05/30/2025	02/15/2024 / Rubina	10/18/2023 / Iwona	W3059

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	300-CAL-A-500ML / 300.0 Calibration Standard, 500 ml	T2-MEB716667	02/12/2025	02/12/2024 / Iwona	10/30/2023 / Iwona	W3062

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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	300-CAL-A-500ML / 300.0 Calibration Standard, 500 ml	U2-MEB735684	04/09/2025	04/09/2024 / Iwona	11/16/2023 / Iwona	W3063

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Environmental Express LTD	B1010 / COD Digestion Vials Low Level 0-150Mg/L	3GE1024	05/31/2028	11/14/2023 /Iwona	11/14/2023 / Iwona	W3068

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	AL14455-3 / buffer solution pH 7 yellow	4308H30	07/31/2025	01/02/2024 / JIGNESH	12/06/2023 / Iwona	W3071

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	AL14940-1 / Buffer Solution, PH12 (500ml)	2310P21	04/30/2025	01/02/2024 / JIGNESH	12/07/2023 / Iwona	W3072

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	J0938-7 / Ascorbic Acid, 500 gms	MKCS4627	09/30/2025	01/16/2024 / Iwona	01/16/2024 / Iwona	W3074

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	J2177-1 / Hydrazine sulfate, 500 gms	BCCK9980	10/13/2028	01/26/2024 / Iwona	01/26/2024 / Iwona	W3078

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Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	04667-2.5 / Silica Gel (60-200 mesh), 2.5 KG	072154301	01/30/2029	05/07/2024 / jignesh	01/30/2024 / jignesh	W3079

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	AA36462-36 / hexamethylenetetramine	M02K021	01/02/2027	02/26/2024 / Iwona	02/26/2024 / Iwona	W3081

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	A12244 / Stearic acid, 98%, 100 g	U23E020	02/26/2029	02/26/2024 / Iwona	02/26/2024 / Iwona	W3082

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	123260-100G / Sulfanilamide, 100 gms	50091180	06/30/2028	02/26/2024 / Iwona	02/26/2024 / Iwona	W3083

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	566002 / BUFFER PH 7.00 GREEN 1PINT PK6	44001f99	12/31/2025	04/03/2024 / jignesh	04/02/2024 / jignesh	W3093

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	1601-1 / PH 10.01 BUFFER,COLOR CD 475ML	4310g83	03/31/2025	04/03/2024 / jignesh	04/02/2024 / jignesh	W3094

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Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	4740-16 / Mercuric Nitrate, 0.141 N, 500ml	4403N69	03/31/2026	04/09/2024 / Iwona	04/09/2024 / Iwona	W3095

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	470112-662 / TEST STRIPES, NITRATE/NITRITE, PK50	402403	04/30/2026	05/02/2024 / Iwona	04/10/2024 / Iwona	W3101

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	4620-32 / MANGANOUS SULFATE SOLUTION-364	2403J02	03/31/2026	04/22/2024 / Iwona	04/22/2024 / Iwona	W3103

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	RC2543-4 / CYANIDE STD 1000PPM 4OZ	1404G63	09/30/2024	04/22/2024 / Iwona	04/22/2024 / Iwona	W3104

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	AL69870-8 / SODIUM THIOSULFATE,0.025N,4LITRE	4403S13	09/30/2025	04/22/2024 / Iwona	04/22/2024 / Iwona	W3105

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	AL14055-3 / PH 4 BUFFER SOLUTION	AL14055-3	02/27/2026	09/05/2024 / jignesh	05/13/2024 / jignesh	W3107

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Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	AL04100-4 / Alkaline Iodide Azide, 1 L	1405D67	04/30/2026	05/23/2024 / Iwona	05/23/2024 / Iwona	W3109

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9262-03 / Hexane, Ultra-Resi (cs/4x4L)	235898	02/28/2029	06/27/2024 / jignesh	06/26/2024 / jignesh	W3110

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	P243-500 / Potassium Hydrogen Phthalate, 500 gms	24A1956910	01/18/2025	06/26/2024 / Iwona	06/26/2024 / Iwona	W3111

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	DIW / DI Water	Daily Lab-Certified	07/03/2029	07/03/2024 / Iwona	07/03/2024 / Iwona	W3112

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	PC19510-7 / Sodium Hydroxide Pellets 12 Kg	23B1556310	12/31/2025	07/08/2024 / Iwona	07/08/2024 / Iwona	W3113

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	AL35830-4 / IODINE SOLUTION .025N 1L	2405D89	05/31/2025	07/10/2024 / Iwona	07/10/2024 / Iwona	W3114

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Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
HACH	2659949 / 10 NTU Standard 500 ml	A4151	05/30/2026	07/12/2024 / Iwona	07/12/2024 / Iwona	W3116

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
ULTRA Scientific	PANAL0100 / Potassium Nitrate	50082064	11/30/2027	07/12/2024 / Iwona	07/12/2024 / Iwona	W3119

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
ULTRA Scientific	PANAL0100 / Potassium Nitrate	50082064	11/30/2027	07/12/2024 / Iwona	07/12/2024 / Iwona	W3119

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	J9416-1 / Sodium Hypochlorite 500 ml	4403M08	09/30/2024	07/15/2024 / Iwona	07/15/2024 / Iwona	W3120

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	140444 / TEST PAPERS,PH 0-14,.5 SENSI,100PK	HC446507	07/25/2029	07/25/2024 / Iwona	07/25/2024 / Iwona	W3121

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
HACH	14268-10 / Chlorine Std, Pk of 16	A4144	01/31/2026	07/25/2024 / Iwona	07/25/2024 / Iwona	W3130

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Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
HACH	14268-10 / Chlorine Std, Pk of 16	A4166	02/28/2026	07/25/2024 / Iwona	07/25/2024 / Iwona	W3131

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	PC05050-1 / EDTA, disodium salt, dihydrate 1 lb	2ND0156	07/10/2026	07/26/2024 / Iwona	07/26/2024 / Iwona	W3132

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	140476 / Test Paper,PH Short Range 9.0/10.0	L23	08/22/2029	08/22/2024 / Iwona	08/22/2024 / Iwona	W3133

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	J3946-1 / Sodium Thiosulfate Pentahydrate, 500 gms	MKCV5080	01/31/2029	08/26/2024 / Iwona	08/26/2024 / Iwona	W3136

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	LC135457 / Cyanide Standard, 1000 PPM, Second Source	44080060	01/30/2025	09/06/2024 / Iwona	08/28/2024 / Iwona	W3138

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	JTE494-6 / CHLORAMINE-T BAKER 250GM	10239484	09/09/2029	09/09/2024 / Iwona	09/09/2024 / Iwona	W3139

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Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	140444 / TEST PAPERS,PH 0-14,.5 SENSI,100PK	10D0142	09/17/2029	09/17/2024 / Iwona	09/17/2024 / Iwona	W3140

Chem-Impex International, Inc.

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935 Dillon Drive
Wood Dale, IL 60191
Manufacturing site:
825 Dillon Drive
Wood Dale, IL 60191

Certificate of Analysis

Catalogue Number	00222
Lot Number	000815-1734-1015-1
Product	***N*-(1-Naphthyl)ethylenediamine dihydrochloride** NED•2HCl 2-(1-Naphthylamino)ethylamine dihydrochloride
CAS Number	1465-25-4
Molecular Formula	$C_{12}H_{14}N_2$•2HCl
Molecular Weight	259.18

Appearance	Off-white powder
Solubility	Passes test (Clear solution, 1g/50 mL Water)
Water Content (Karl Fisher)	1.13%
Sensitivity	Passes test (Sulfanilamide)
Infrared Spectrum	Conforms to structure
Assay by titration	99.68% (Anhydrous basis)
Grade	ACS reagent
Application	Determination of sulfanilamide
Storage	Store at RT
Remarks	See material safety data sheet for additional information For laboratory use only

The foregoing is a copy of the Certificate of Analysis as provided by our supplier



Bala Kumar
Quality Control Manager

CERTIFICATE OF ANALYSIS

Printed: 12/8/2017

Customer No : 30017 **Customer :** PCI SCIENTIFIC **Customer PO :** 6035343
Order Number : 3008126 **Delivery # :** 58495347
Catalog : A1561 Potassium Antimony Tartrate Trihydrate, Reagent, ACS **Lot :** 2GH0057

W2306
Received
12/11/17
RP

Chemical Formula : $C_8H_4K_2O_{12}Sb_2.3H_2O$ **Formula Weight :** 667.87
CAS# : 28300-74-5

Test	Limit Min.	Limit Max.	Results
ASSAY ($C_8H_4K_2O_{12}Sb_2.3HO$)	99.0	103.0 %	101.0 %
TITRATABLE ACID OR BASE	--	0.020 meq/g	<0.020 meq/g
LOSS ON DRYING	--	2.7 %	<2.7 %
ARSENIC (As)	--	0.015 %	<0.015 %
APPEARANCE			WHITE POWDER
DATE OF MANUFACTURE			29-DEC-2015

All pharmaceutical ingredients are tested using current edition of applicable pharmacopeia.

Read and understand label and MSDS/SDS before handling any chemical. All Spectrum's chemicals are for manufacturing, processing, repacking or research purposes by experienced personnel only. The customer must ensure to provide its users adequate hazardous material training and appropriate protective gears before handling our chemicals.

Certificate of Analysis Results Certified By:



Ibad Tirmizi
Director, Quality Assurance, Quality Control
New Brunswick, NJ 08901

spectrum CHEMICAL MFG CORP
SpectrumChemical.com

Corporate Office:
755-769 Jersey Ave.
New Brunswick, NJ 08901
(732) 214-1300

West Coast Plant:
14422 S. San Pedro St.
Gardena, CA 90248
(310) 516-8000

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Email: info@amresco-inc.com

CERTIFICATE OF QUALITY / CERTIFICATE OF ANALYSIS

Potassium Ferricyanide

Code: **0713**

Chemical Formula:	K3Fe(CN)6	Manufacture Date:	(batch specific)
Molecular Weight:	329.25	Expiration/Reassay Date:	(batch specific)
CAS #:	13746-66-2		
Appearance:		Storage:	
Dark orange crystals		Grade:	ACS GRADE

Additional Information

TEST	SPECIFICATION	DISPOSITION
Chloride	<= 0.01 %	PASS
Ferro Compounds	<= 0.05 %	PASS
Insolubles	<= 0.005 %	PASS
Purity	>= 99.0 %	PASS
Sulfate	<= 0.01 %	PASS

Spec Set: 0713ACS

Analysis may have been rounded to significant digits in specification limits.

Product meets analytical specifications of the grades listed.

Internal ID #: 269

Signature: _____ **Date Printed:** 03/09/2016

Title:

Certificate of Analysis

Date of Release: ***12/18/2013***

Product: ***Ammonium Chloride GR ACS***

Catalog No.: ***AX1270 all size codes***

Grade: ***Meets ACS Specifications***

CAS #: ***12125-02-9***

Country of Origin: ***India***

FW: ***53.49***

Lot No.: ***WL13B***

ClH_4N

Characteristic	Requirement Minimum	Maximum	Results	UOM
Assay (argentometric)	99.5		99.9	%
Calcium (Ca)		0.001	0.0001	%
Form	White crystals		White crystals	
Heavy metals (as Pb)		5	5	ppm
Identification	To pass test		Passes	
Insoluble matter		0.005	0.002	%
Iron (Fe)		2	2	ppm
Loss on drying (105 C)		0.5	0.21	%
Magnesium (Mg)		5	0.6	ppm
pH of a 5% solution at 25 C	4.5	5.5	4.76	
Phosphate (PO4)		2	2	ppm
Residue after ignition		0.01	0.002	%
Sulfate (SO4)		0.002	0.002	%

Joe Schoellkopff

Quality Control Manager

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EMD Millipore Corporation
290 Concord Road
Billerica, MA 01821

Certificate of Analysis

Date of Release: ***5/12/2014***

Product: ***Ammonium Chloride GR ACS*** ***Catalog No.:*** ***AX1270 all size codes***

Grade: ***Meets ACS Specifications*** ***CAS #:*** ***12125-02-9***

Country of Origin: ***India*** ***FW:*** ***53.49***

Lot No.: ***XE09B*** ClH_4N

Characteristic	Requirement Minimum	Maximum	Results	UOM
Assay (argentometric)	99.5		99.8	%
Calcium (Ca)		0.001	0.0001	%
Form	White crystals		White crystals	
Heavy metals (as Pb)		5	5	ppm
Identification	To pass test		Passes	
Insoluble matter		0.005	0.002	%
Iron (Fe)		2	2	ppm
Loss on drying (105 C)		0.5	0.22	%
Magnesium (Mg)		5	0.7	ppm
pH of a 5% solution at 25 C	4.5	5.5	4.95	
Phosphate (PO4)		2	2	ppm
Residue after ignition		0.01	0.002	%
Sulfate (SO4)		0.002	0.002	%

Joe Schoellkopff

Quality Control Manager

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EMD Millipore Corporation
290 Concord Road
Billerica, MA 01821

Certificate of Analysis

Date of Release: ***12/6/2013***

Product:	***Sodium Sulfide, Nonahydrate GR ACS, Crystals***	***Catalog No.:***	***SX0770 all size codes***
Grade:	***Meets ACS Specifications, Meets Reagent Specifications for testing USP/NF monographs***	***CAS #:***	***1313-84-4***
Country of Origin:	***USA***	***FW:***	***240.18***
Lot No.:	***WK21A***	$Na_2S \cdot 9H_2O$	

	Requirement			
Characteristic	**Minimum**	**Maximum**	**Results**	**UOM**
Assay (iodometric)	98.0		101.1	%
Ammonium (NH4)		0.005	0.003	%
Appearance	Crystals, colorless or only slight yellow color		Crystals, colorless	
Iron	To pass test		Passes	
Sulfite and thiosulfate (as SO2)		0.1	0.003	%

Joe Schoellkopff

Quality Control Manager

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EMD Millipore Corporation
290 Concord Road
Billerica, MA 01821

W2699 Received on 3/11/2020 by AP

Subject to Vadodara Jurisdiction

CHAMPA PURIE-CHEM INDUSTRIES

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Vadodara - 390 010.
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E-mail : info@cpcindia.com
Web : www.cpcindia.com

CERTIFICATE OF ANALYSIS

PRODUCT : POTASSIUM PHOSPHATE MONOBASIC Anhy. - ACS

CERTIFICATE NO : 04/2019-20 DATE 13-05-2019

Date of receipt of sample : 29.04.2019 Quantity : 1000 KGS.

Batch No. /Lot No : 04/2019-20

Mfg. Date : April-2019

	RESULT OBTAINED	LIMITS
1. Characteristic : A White powder		
2. Identification : Positive		
3. Clearity and colour of solution : 10% solution is clear and colourless		
4. Assay (on dry basis)	99.35%	Min.99.00%
5. PH (5% solution)	4.28	4.1-4.5
6. Loss on Drying	0.06%	Max 0.2%
7. Heavy Metals	0.0004%	Max.0.001%
8. iron	0.001%	Max 0.002%
9. Sulphate	0.0015%	Max. 0.003%
10. Chloride	0.0005%	Max.0.001%
11. Insoluble Matter	0.002%	Max. 0.01%
12. Sodium	0.0038%	Max. 0.005%

The sample does comply with specification as per Above.

Analysed by J. A. PATHAK

Quality Control Department

W2651 Received on 1/24/2020 by AP

ThermoFisher SCIENTIFIC

Certificate of Analysis

Product No.: 13450

Product: Potassium dichromate, ACS, 99.0% min

Lot No.: T15F019

Test	Limits	Results
Appearance	Orange-red crystals	Orange-red crystals
Identification	To Pass	Passes
Purity	99.0 % min	99.67 %
Insoluble matter	0.005 % max	0.004 %
Loss on drying	0.05 % max	0.03 %
Chloride	0.001 % max	< 0.001 %
Sulfate	0.005 % max	< 0.005 %
Iron	0.001 % max	< 0.001 %
Calcium	0.003 % max	0.0012 %
Sodium	0.02 % max	0.0047 %

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W2664 Received on 01/31/2020 by AP

Ammonium Molybdate, 4-Hydrate, Crystal
BAKER ANALYZED® A.C.S. Reagent

(ammonium heptamolybdate, tetrahydrate)

Material No.: 0716-01
Batch No.: 0000234410
Manufactured Date: 2019/02/13
Retest Date: 2026/02/11
Revision No: 1

Certificate of Analysis

Meets ACS Reagent Chemical Requirements,

Test	Specification	Result
Assay (as MoO_3)	81.0 - 83.0 %	81.4
ACS - Insoluble Matter	<= 0.005 %	< 0.001
Chloride (Cl)	<= 0.002 %	< 0.002
Nitrate (NO_3)	Passes Test	PT
Arsenate, Phosphate and Silicate (as SiO_2)	<= 0.001 %	< 0.001
ACS - Phosphate (PO_4)	<= 5 ppm	< 5
Sulfate (SO_4)	<= 0.02 %	< 0.02
Heavy Metals (as Pb)	<= 0.001 %	< 0.001
Magnesium (Mg)	<= 0.005 %	< 0.001
Potassium (K)	<= 0.01 %	< 0.01
Sodium (Na)	<= 0.01 %	<0.001

For Laboratory, Research or Manufacturing Use
Meets Reagent Specifications for testing USP/NF monographs

Country of Origin: US
Packaging Site: Paris Mfg Ctr & DC

Jamie Ethier
Vice President Global Quality

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700
Avantor Performance Materials, LLC
100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone: 610.386.1700

W2650 Received on 01/20/2020 by AP

Phenolphthalein, Powder
BAKER ANALYZED® A.C.S. Reagent

Material No.: 2870-01
Batch No.: 0000235350
Manufactured Date: 2018/06/06
Retest Date: 2025/06/04
Revision No: 1

Certificate of Analysis

Meets ACS Reagent Chemical Requirements,

Test	Specification	Result
ACS - Clarity of Solution	Passes Test	PT
Visual Transition Interval - pH...8.0 (Colorless)	Passes Test	PT
Visual Transition Interval - pH...10.0 (Red)	Passes Test	PT

For Laboratory, Research or Manufacturing Use

Country of Origin: CN
Packaging Site: Paris Mfg Ctr & DC

Jamie Ethier
Vice President Global Quality

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100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone: 610.386.1700

W2647 Received on 01/20/2020 by AP

Sodium Bicarbonate, Powder
BAKER ANALYZED® A.C.S. Reagent

(sodium hydrogen carbonate)

Material No.: 3506-05
Batch No.: 0000240594
Manufactured Date: 2019/06/05
Retest Date: 2026/06/03
Revision No: 1

Certificate of Analysis

Meets ACS Reagent Chemical Requirements,

Test	Specification	Result
Assay ($NaHCO_3$) (dried basis)	99.7 - 100.3 %	100.1
Insoluble Matter	<= 0.015 %	< 0.002
Chloride (Cl)	<= 0.003 %	0.003
Phosphate (PO_4)	<= 0.001 %	0.001
Sulfur Compounds (as SO_4)	<= 0.003 %	0.003
Calcium (Ca)	<= 0.02 %	0.02
Trace Impurities - Iron (Fe)	<= 0.001 %	0.001
Magnesium (Mg)	<= 0.005 %	0.005
Potassium (K)	<= 0.005 %	0.005
Ammonium (NH_4)	<= 5 ppm	5
Trace Impurities - ACS - Heavy Metals (as Pb)	<= 5 ppm	5

For Laboratory, Research or Manufacturing Use
Meets Reagent Specifications for testing USP/NF monographs

Country of Origin: US
Packaging Site: Paris Mfg Ctr & DC

Jamie Ethier
Vice President Global Quality

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W2663 Received by AP on 01/27/2020

spectrum® CHEMICAL MFG CORP

Certificate Of Analysis

Item Number	P1060	Lot Number	2HD0179
Item	Phenol, Loose Crystal, Reagent, ACS		
CAS Number	108-95-2		
Molecular Formula	C_6H_6O	Molecular Weight	94.11

Test	Specification		Result
	min	max	
ASSAY (C_6H_5OH)	99.0 %		100.02 %
FREEZING POINT (DRY)	40.5 C		40.5°C
CLARITY OF SOLUTION	TO PASS TEST		PASSES TEST
RESIDUE AFTER EVAPORATION		0.05 %	<0.05 %
WATER		0.5 %	0.0087 %
DATE OF MANUFACTURE			06-MAR-2018

Spectrum Chemical Mfg Corp
755 Jersey Avenue
New Brunswick 08901 NJ

Certificate Of Analysis Results Certified by

Ibad Tirmizi
Director of Quality
Spectrum Chemical Mfg. Corp.

All pharmaceutical ingredients are tested using current edition of applicable pharmacopeia.

Read and understand label and SDS before handling any chemicals. All Spectrum's chemicals are for manufacturing, processing, repacking or research purposes by experienced personnel only. It is the customer's responsibility to provide adequate hazardous material training and ensure that appropriate Personal Protective Equipment (PPE) is used before handling any chemical.

Hexadecane, 99.0%

Material No.: H223-57
Batch No.: 0000266903
Manufactured Date: 2020/05/05
Retest Date: 2027/05/04
Revision No: 1

Certificate of Analysis

Test	Specification	Result
Assay ($CH_3(CH_2)_{14}CH_3$) (by GC)	>= 99.0 %	99.3
Infrared Spectrum	Passes Test	PT

For Laboratory, Research or Manufacturing Use

Country of Origin: US
Packaging Site: Paris Mfg Ctr & DC

Jamie Ethier
Vice President Global Quality

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Avantor Performance Materials, LLC
100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone: 610.386.1700

ThermoFisher SCIENTIFIC

Certificate of Analysis

Product No.: 32641

Product: Bromophenol Blue, ACS

Lot No.: W24G026

Test	Limits	Results
Appearance	Brown-pink to peach powder	Pink powder
Loss on Drying	< 1.0 %	0.85 %
Clarity of solution	To pass test	Passes test
Visual transition interval	pH 3.0 (yellow) to pH 4.6 (blue)	pH 3.0 (yellow) to pH 4.6 (blue)
Absorptivity 1 %/ 1 cm		
(pH 3.0) at λ_{max} 437 nm	350- 385	361
(pH 4.6) at λ_{max} 591 nm	940- 1000	983

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ThermoFisher SCIENTIFIC

Certificate of Analysis

W2858 Received by AP on 07/07/2021

Product No.: 33213

Product: Phenol, ACS, 99+%, stab.

Lot No.: M13H048

Test	Limits	Results
Assay	99.0 % min	99.8 %
Freezing point	40.5ºC min	40.5 ºC
Clarity of solution	To pass test	Passes
Residue after evaporation	0.05 % max	< 0.05 %
Water	0.5 % max	0.2 %

Retest date: January 7, 2026

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Phosphoric Acid
BAKER ANALYZED® A.C.S. Reagent

(orthophosphoric acid)

Material No.: 0260-03
Batch No.: 0000278313
Manufactured Date: 2021/02/01
Retest Date: 2026/01/31
Revision No: 2

Certificate of Analysis

Meets ACS Reagent Chemical Requirements,

Test	Specification	Result
Assay (H_3PO_4) (by acidimetry)	85.0 - 87.0 %	85.8
Calcium (Ca)	<= 0.002 %	< 0.001
Color (APHA)	<= 10	5
Insoluble Matter	<= 0.001 %	< 0.001
ACS - Magnesium (Mg)	<= 0.002 %	<0.002
Sulfate (SO_4)	<= 12 ppm	< 4
Volatile Acids (as CH_3COOH)	<= 0.001 %	0.001
Reducing Substances	Passes Test	PT
Chloride (Cl)	<= 3 ppm	< 1
Nitrate (NO_3)	<= 5 ppm	< 2
Trace Impurities - Antimony (Sb)	<= 20.000 ppm	0.007
Trace Impurities - Arsenic (As)	<= 0.500 ppm	< 0.001
Trace Impurities - Iron (Fe)	<= 10.000 ppm	< 1.000
Heavy Metals (as Pb)	<= 8 ppm	< 3
Trace Impurities - Manganese (Mn)	<= 0.500 ppm	0.005
Trace Impurities - Potassium (K)	<= 40.000 ppm	< 0.001
Trace Impurities - Sodium (Na)	<= 200.000 ppm	0.082

For Laboratory, Research or Manufacturing Use
Exceeds A.C.S. Specifications
Meets Reagent Specifications for testing USP/NF monographs

Country of Origin: US
Packaging Site: Phillipsburg Mfg Ctr & DC

Jamie Ethier
Vice President Global Quality

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700
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100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone: 610.386.1700

ThermoFisher SCIENTIFIC

Certificate of Analysis

W2666 Recived on 02/10/2020 by AP

Product No.: 87683

Product: Sodium pentacyanonitrosylferrate(III) dihydrate, ACS, 99.0-102.0%

Lot No.: W12F013

Test	Limits	Results
Assay	99.0 - 102.0 %	99.67 %
Insoluble	0.01 % max	0.0079 %
Chloride	0.02 % max	Not detected
Sulfate	To pass test	Passes test
Aqueous solubility	To pass test	Passes test
Limit on Ferricyanide	To pass test	Passes test
Limit on Ferrocyanide	To pass test	Passes test

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W2676 Received on 02/18/2020 by AP

Ammonium Hydroxide, 28.0-30.0%
BAKER ANALYZED® A.C.S. Reagent

avantor™ | J.T.Baker®

Material No.: 9721-03
Batch No.: 0000246506
Manufactured Date: 2019/10/16
Retest Date: 2024/10/14
Revision No: 1

Certificate of Analysis

Meets ACS Reagent Chemical Requirements,

Test	Specification	Result
Appearance (Colorless and free from suspended matter or sediment)	Passes Test	PT
Assay (as NH_3)	28.0 - 30.0 %	28.4
Color (APHA)	<= 5	5
Specific Gravity at 60°/60°F	0.896 - 0.902	0.902
Residue after Ignition	<= 0.0020 %	< 0.0003
Carbon Dioxide (CO_2)	<= 0.002 %	< 0.001
Substances Reducing Permanganate	Passes Test	PT
Chloride (Cl)	<= 0.5 ppm	< 0.2
Nitrate (NO_3)	<= 2 ppm	< 1
Phosphate (PO_4)	<= 2 ppm	< 1
Sulfate (SO_4)	<= 2 ppm	< 1
Trace Impurities - Aluminum (Al)	<= 200.0 ppb	< 5.0
Arsenic and Antimony (as As)	<= 3000 ppb	< 5
Trace Impurities - Barium (Ba)	<= 300.0 ppb	< 1.0
Trace Impurities - Boron (B)	<= 50.0 ppb	< 5.0
Trace Impurities - Chromium (Cr)	<= 100.0 ppb	< 1.0
Trace Impurities - Copper (Cu)	<= 100.0 ppb	< 1.0
Trace Impurities - Gold (Au)	<= 200.0 ppb	< 5.0
Heavy Metals (as Pb)	<= 500 ppb	< 100
Trace Impurities - Iron (Fe)	<= 100.0 ppb	< 1.0
Trace Impurities - Lead (Pb)	<= 200.0 ppb	< 10.0
Trace Impurities - Magnesium (Mg)	<= 200.0 ppb	< 1.0
Trace Impurities - Manganese (Mn)	<= 100.0 ppb	< 1.0

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700
Avantor Performance Materials, LLC
100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone: 610.386.1700

Material No.: 9721-03
Batch No.: 0000246506

Test	Specification	Result
Trace Impurities - Nickel (Ni)	<= 100.0 ppb	< 5.0
Trace Impurities - Tin (Sn)	<= 100.0 ppb	< 10.0
Trace Impurities - Titanium (Ti)	<= 100.0 ppb	< 1.0
Trace Impurities - Zinc (Zn)	<= 100.0 ppb	< 1.0

For Laboratory, Research or Manufacturing Use
Meets Reagent Specifications for testing USP/NF monographs

Country of Origin: US
Packaging Site: Phillipsburg Mfg Ctr & DC



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HACH COMPANY

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Loveland, CO 80539
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Certificate of Analysis

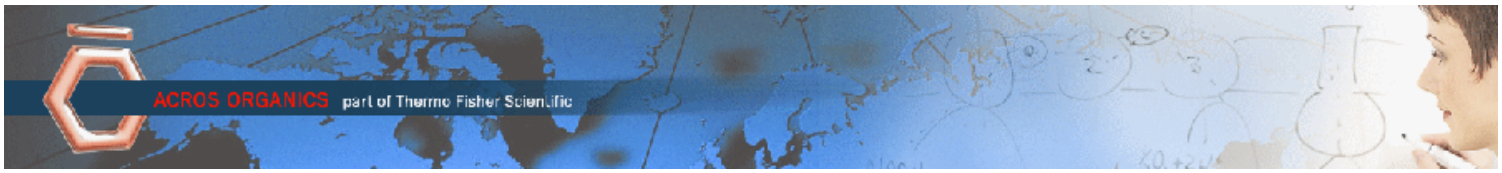
COMMODITY:**DPD Total Chlorine Reagent**
COMMODITY NUMBER: **1406499** MANUFACTURE DATE: **12/26/2020** DATE OF ANALYSIS: **12/26/2020**
LOT NUMBER: **A0357**

TEST	*SPECIFICATIONS*	*RESULTS*
Percent Recovery for a 2.5 ppm Standard. Chlorine concentration determined using DPD compared to the actual concentration.	93 to 107 %	98.8 %
Percent Recovery for a 5.0 ppm Standard. Chlorine concentration determined using DPD compared to the actual concentration.	93 to 107 %	96.5 %
pH of reagent in 50 mL of DI water.	6.2 to 6.5	6.39
Hardness Blank: 1000 ppm as Calcium Carbonate Hardness standard vs DI water measured at 530 nm in 1 cm cells.	0 to 0.009 abs	0.0020 abs

The expiration date is Dec 2025

Certified by _____
Scott Als
Analytical Services Chemist

W2653 Received on 1/24/2020 by AP



ACROS ORGANICS

Version	0
Molecular weight	147.13
Molecular formula	C5 H9 N O4
CAS No	56-86-0
Linear formula	HO2CCH2CH2CH(NH2)CO2H
Flash point (°C)	

Certificate of Analysis

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Catalog Number	15621	**Quality Test / Release Date**	13 March 2019
Lot Number	A0405990	**Suggested Retest Date**	March 2022

Description	L(+)-Glutamic acid,99%
Country of Origin	CHINA
Declaration of Origin	plant

Origin Comment	The product is made by fermentation of sugar molasses

Result Name	Specifications	Test Value
Appearance (Color)	White	White
Appearance (Form)	Powder	Powder
Infrared spectrum	Conforms	Conforms
Titration with NaOH	98.5 to 100.5 % (On dried substance)	99.32 % (On dried substance)
Loss on drying	=<0.5 % (105°C, 3 hrs)	0.002 % (105°C, 3 hrs)
Heavy metals (as Pb)	=<10 ppm	=<10 ppm
Sulfated ash	=<0.1 %	0.08 %
Other amino acids	not detectable	not detectable
Specific optical rotation	+30.5° to +32.5° (20°C, 589 nm) (on dried substance)	+32° (20°C, 589 nm) (on dried substance)
Specific optical rotation	(c=10, 2N HCl)	(c=10, 2N HCl)
Chloride (Cl)	=<200 ppm	=<200 ppm
Iron (Fe)	=<30 ppm	=<10 ppm
Sulfate (SO4)	=<300 ppm	=<200 ppm
Ammonium (NH4)	=<200 ppm	=<200 ppm
Arsenic oxide (As2O3)	=<1 ppm	=<1 ppm



L. Van den Broek, QA Manager Issued: 24 January 2020

Acros Organics
ENA23, zone 1, nr 1350, Janssen Pharmaceuticalaan 3a, B-2440 Geel, Belgium
Tel +32 14/57.52.11 - Fax +32 14/59.34.34 Internet: http://www.acros.com
1 Reagent Lane, Fair Lawn, NJ 07410,USA Fax 201-796-1329

ThermoFisher SCIENTIFIC

W2817
Rec. 04/02/2021

Product Specification

Product Name: Stearic acid, 98%, Thermo Scientific Chemicals
Catalog Number: A12244.14

CAS Number: 57-11-4
Molecular Formula: C18H36O2
Molecular Weight: 284.48
InChI Key: QIQXTHQIDYTFRH-UHFFFAOYSA-N
SMILES: CCCCCCCCCCCCCCCCCC(O)=O
Synonym: stearic acid acide stearique hydrofol acid 1855 hydrofol acid 1655 industrene 5016 stearic acid, ion(1-) (8CI) glycon TP glycon DP acidum stearinicul hydrofol acid 150

Product Specification

Appearance (Color): White
Form: Crystals or powder or crystalline powder or flakes or waxy solid
Assay (Silylated GC): ≥97.5%
Melting Point (clear melt): 67.0-74.0?C

Date Of Print: 11/30/2023

Product Specifications are subject to amendment and may change over time. Data contained is accurate as of the date printed.

CERTIFICATE OF ANALYSIS

Product Name	ISOPROPYL ALCOHOL, 99%
Grade	Meets ACS/USP/NF Monographs
Catalog #	231000099, zp231000099
Lot #	C20F23007
Date of Manufacture:	06/23/20
Recommended Retest Date:	Five Years from Date of Manufacture

W2788 Received on 12/30/2020 by AP

TEST	MONO GRAPH	SPECIFICATION	RESULT
Assay (corrected for water)	USP	99.0% min	99.92%
Assay (corrected for water)	ACS	99.5% min	
Solubility in water	ACS+	To Pass Test	Pass
Appearance	ACS+	Clear, colorless liquid	Pass
Color, APHA	ACS	10 max	1
Limit of Nonvolatile Residue	USP+	NMT 2.5 mg (0.005%)	0.1 mg
Residue after Evaporation	ACS+	0.001% max	< 0.001%
Specific Gravity	USP	0.783 - 0.787 @25°C	0.783
Identification A - Infrared Absorption	USP	To Pass Test	Pass
Identification B	USP	To Pass Test	Pass
Refractive Index @ 20°C	USP	1.376-1.378	1.377
Acidity	USP+	NMT 0.70 ml of 0.020N NaOH is required	0.30 mL
Titrable Acid or Base	ACS+	0.0001 meq/g max	0.0001 meq/g
Carbonyl Compounds	ACS	Propionaldehyde 0.002% max	< 0.002%
		Acetone 0.002% max	None Detected
Limit of Volatile Impurities	USP	Diethyl Ether NMT 0.1%	< 0.1%
		Acetone NMT 0.1%	None Detected
		Diisopropyl Ether NMT 0.1%	< 0.1%
		n-Propyl Alcohol NMT 0.1%	< 0.1%
		2-Butanol NMT 0.1%	< 0.1%
		Total NMT 1.0%	< 0.1%
Water, wt%	ACS	NMT 0.2%	0.05%
Water Determination	USP	NMT 0.5%	

+ This test is performed quarterly

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Certification and Compliance Statements

This lot of Isopropyl Alcohol complies with all of the current requirements listed in the United States Pharmacopeia, American Chemical Society monographs and the National Formulary.
No chemicals whatsoever are used as solvents at any point in the manufacture, processing or packaging of Isopropyl Alcohol. Only Class 2 and Class 3 residual solvents may appear as impurities / related substances / low level contaminants in IPA Concentration of Class 2 Option 1 and Class 3 residual solvents is below limits in the current USP/NF General Chapter <467>.
This product is not derived, nor does it come in contact with, any materials derived from bovine or other animal sources.
This product is for further commercial manufacturing, laboratory or research use, and may be used as an excipient or a process solvent for pharmaceutical purposes. It is not intended for use as an active ingredient in drug manufacturing nor as a medical device or disinfectant. Appropriate/legal use of this product is the responsibility of the user.

Approved by: D. Simoncelli, Quality Control Chemist

Date of Approval: 06/23/2020

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W3071
Rec 12/6/23

Certificate of Analysis

Buffer, Reference Standard, pH 7.00 ± 0.01 at 25°C (Color Coded Yellow)

Lot Number: 4308H30 **Product Number:** 1551

Manufacture Date: AUG 09, 2023
Expiration Date: JUL 2025

The certified value for this product is confirmed in independent testing by a second qualified chemist.
The NIST traceable pH value is certified to ±0.01 at 25 °C only. All other pH values at their corresponding temperatures are accurate to ± 0.05.

°C	0	5	10	15	20	25	30	35	40	45	50
pH	7.12	7.09	7.06	7.04	7.02	7.00	6.99	6.98	6.98	6.97	6.97

Name	CAS#	Grade
Water	7732-18-5	ACS/ASTM/USP/EP
Sodium Phosphate Dibasic	7558-79-4	ACS
Potassium Dihydrogen Phosphate	7778-77-0	ACS
Preservative	Proprietary	
Yellow Dye	Proprietary	
Sodium Hydroxide	1310-73-2	Reagent

Test	Specification	Result	
Appearance	Yellow liquid	Passed	*Not a certified value.

Test	Certified Value	Uncertainty	NIST SRM#
pH at 25°C (Method: SQCP027, SQCP033)	7.002	0.02	186-I-g, 186-II-g, 191d

Specification	Reference
Commercial Buffer Solutions	ASTM (D 1293 B)
Buffer A	ASTM (D 5464)
Buffer A	ASTM (D 5128)

pH measurements were performed in our Batesville, IN laboratory under ISO/IEC 17025 accreditation (ANAB Certificate L2387.02) and are certified traceable to National Institute of Standards and Technology (NIST) Standard Reference Material as indicated above via an unbroken chain of comparisons. The uncertainty is calculated from the uncertainty of the measurement variation from sample to sample, the uncertainty in the NIST Standard Reference Material, and the uncertainty of the measurement process. The uncertainty is multiplied by k=2, corresponding to 95% coverage in a normal distribution. Volumetric glassware complies with Class A tolerance requirements of ASTM E 288 and NIST Circular 434; it is calibrated before first use and recalibrated regularly in accordance with ASTM E 542 and NIST Procedure NBSIR 74-461. Balances are calibrated regularly with weights certified traceable to the NIST national mass standard. Thermometers and temperature probes are calibrated before first use and recalibrated regularly with a thermometer traceable to NIST standards. All products are prepared according to master documents that assure manufacture according to validated methods. Batch records document raw material traceability and production and testing history for each lot manufactured.

Part Number	Size / Package Type	Shelf Life (Unopened Container)
1551-2.5	10 L Cubitainer®	24 months
1551-5	20 L Cubitainer®	24 months

Recommended Storage: 15°C - 30°C (59°F - 86°F)

Paul Brandon (08/09/2023)
Production Manager
This document is designed to comply with ISO Guide 31 "Reference Materials -- Contents of Certificates and Labels."

This product was tested in an ISO 17025 Accredited Laboratory

This test report shall not be reproduced, except in full, without the written approval of Ricca Chemical Company.

Sigma-Aldrich.

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Website: www.sigmaaldrich.com
Email USA: techserv@sial.com
Outside USA: eurtechserv@sial.com

~~H2270~~ W2983
Rec. 11/21/22 ,2

Certificate of Analysis

Product Name:
Potassium sulfate - ReagentPlus®, ≥99.0%

Product Number:	**P0772**
Batch Number:	**SLCM9788**
Brand:	SIGALD
CAS Number:	7778-80-5
MDL Number:	MFCD00011388
Formula:	K2O4S
Formula Weight:	174.26 g/mol
Quality Release Date:	03 MAR 2022

K_2SO_4

Test	Specification	Result
Appearance (Color)	White	White
Appearance (Form)	Powder	Powder
Solubility (Color)	Colorless	Colorless
Solubility (Turbidity) 10 g plus 150 mL, H2O	Clear	Clear
Titration with NaOH	≥ 99.0 %	99.2 %

Brian Dulle

Brian Dulle, Supervisor
Quality Assurance
St. Louis, Missouri US

Sigma-Aldrich warrants, that at the time of the quality release or subsequent retest date this product conformed to the information contained in this publication. The current Specification sheet may be available at Sigma-Aldrich.com. For further inquiries, please contact Technical Service. Purchaser must determine the suitability of the product for its particular use. See reverse side of invoice or packing slip for additional terms and conditions of sale.

Sigma-Aldrich.

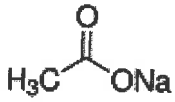
W2984
W2985

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Certificate of Analysis

Product Name:
Sodium acetate - ACS reagent, ≥99.0%

Product Number:	**241245**
Batch Number:	**MKCR6583**
Brand:	SIGALD
CAS Number:	127-09-3
MDL Number:	MFCD00012459
Formula:	C2H3NaO2
Formula Weight:	82.03 g/mol
Quality Release Date:	29 JUL 2022
Recommended Retest Date:	APR 2026



Test	Specification	Result
Appearance (Color)	White	White
Appearance (Form)	Powder or Crystals	Powder
Infrared Spectrum	Conforms to Structure	Conforms
Titration with HClO4	≥ 99.0 %	99.4 %
Loss on Drying	≤ 1.0 %	0.9 %
Insoluble Matter C = 13.3%, H2O	≤ 0.01 %	< 0.01 %
Chloride Content	≤ 0.002 %	< 0.002 %
Iron (Fe)	≤ 0.001 %	< 0.001 %
Heavy Metals (by ICP-OES)	≤ 0.001 %	< 0.001 %
pH C = 5%, H2O At 25 Degrees Celsius	7.0 - 9.2	8.3
Phosphate (PO4)	≤ 0.001 %	< 0.001 %
Calcium (Ca)	≤ 0.005 %	< 0.001 %
Magnesium (Mg)	≤ 0.002 %	< 0.001 %
Sulfate (SO4)	≤ 0.003 %	< 0.003 %
Meets ACS Requirements	Current ACS Specification	Conforms
Recommended Retest Period 4 Years	----------	----------

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Certificate of Analysis

Product Number: 241245
Batch Number: MKCR6583

Larry Coers, Director
Quality Control
Milwaukee, WI US

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~~W2918~~ W3001 Rec. 06/06/22 exp. 06/06/27

Chem-Impex International, Inc.

Tel: (630) 766-2112
E-mail: sales@chemimpex.com
Shipping and Correspondence:
935 Dillon Drive
Wood Dale, IL 60191

Fax: (630) 766-2218
Web site: www.chemimpex.com
Manufacturing site:
825 Dillon Drive
Wood Dale, IL 60191

Certificate of Analysis

Catalogue Number	01237
Product	**Magnesium chloride hexahydrate**
Lot Number	002251-03319
	Magnesium chloride•$6H_2O$
CAS Number	7791-18-6
Molecular Formula	$MgCl_2$•$6H_2O$
Molecular Weight	203.3

Appearance	Colorless crystals, very deliquescent
Heavy Metals	< 5 ppm
Anion	Nitrate : < 0.001% Phosphate : < 5 ppm Sulfate : < 0.002%
Cation	Ammonium : < 0.002% Barium : < 0.005% Calcium : 0.0006% Iron : < 5 ppm Manganese : 1.8 ppm Potassium : 0.0006% Sodium : 0.0008% Strontium : 0.0015%
Insoluble material	0.0025%
Assay by titration	100.29%
Grade	ACS reagent
Storage	Store at RT
Country of Origin	India

Certificate of Analysis

Catalog Number: 01237 **Lot Number: 002251-03319**

Remarks	See material safety data sheet for additional information
	For laboratory use only

The foregoing is a copy of the Certificate of Analysis as provided by our supplier



Bala Kumar
Quality Control Manager

BEANTOWN CHEMICAL

W3004
Rec. 01/24/23
12

Certificate of Analysis

Catalog Number	212760
Product Description	4-Aminoantipyrine, 97%
CAS Number	83-07-8
Lot Number	50001601

Test Results

	Specifications	Results
Assay	≥97.0% min	98.2%
Identification	To pass test	Passes test
Melting Point	107-109°C	109°C
Sensitivity to phenol	To pass test	Passes test
Residue after Ignition	≤0.10%	0.03%
Loss on drying	≤0.5%	0.13%
Clarity of solution (1g/20ml water)	Clear solution	Clear solution
Clarity of solution (1g/20ml EtOH)	Clear solution	Clear solution
Description	Light yellow to tan fine crystals	Light yellow crystalline powder

Suggested retest date January 2025

This certificate of analysis has been electronically generated and is valid without a signature.

BEANTOWN CHEMICAL CORPORATION, 9 SAGAMORE PARK ROAD, HUDSON NH 03051

WWW.BEANTOWNCHEM.COM TOLL FREE: 1-844-891-6306 EMAIL: TECHNICAL@BEANTOWNCHEM.COM

Sigma-Aldrich

W3009

Rec. 2/27/2023 12

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Outside USA: eurtechserv@sial.com

Certificate of Analysis

Product Name:
Hexadecane - ReagentPlus®, 99%

Product Number:	**H6703**
Batch Number:	**SHBP8192**
Brand:	SIAL
CAS Number:	544-76-3
MDL Number:	MFCD00008998
Formula:	C16H34
Formula Weight:	226.44 g/mol
Quality Release Date:	04 AUG 2022

$CH_3(CH_2)_{14}CH_3$

Test	Specification	Result
Appearance (Color)	Colorless or White	Colorless
Appearance (Form)	Liquid or Solid	Liquid
Infrared Spectrum	Conforms to Structure	Conforms
Refractive index at 20 ° C	1.432 - 1.436	1.435
Purity (GC)	≥ 98.5 %	99.3 %
Color Test	≤ 20 APHA	< 5 APHA

Larry Coers, Director
Quality Control
Sheboygan Falls, WI US

Sigma-Aldrich warrants, that at the time of the quality release or subsequent retest date this product conformed to the information contained in this publication. The current Specification sheet may be available at Sigma-Aldrich.com. For further inquiries, please contact Technical Service. Purchaser must determine the suitability of the product for its particular use. See reverse side of invoice or packing slip for additional terms and conditions of sale.

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W3016
Rec 04/03/23 12

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Certificate of Analysis

Product Name:
Sodium phosphate dibasic heptahydrate - ACS reagent, 98.0-102.0%

$Na_2HPO_4 \cdot 7H_2O$

Product Number:	**S9390**
Batch Number:	**SLCP6576**
Brand:	SIGALD
CAS Number:	7782-85-6
MDL Number:	MFCD00149180
Formula:	HNa2O4P · 7H2O
Formula Weight:	268.07 g/mol
Quality Release Date:	02 NOV 2022
Recommended Retest Date:	NOV 2025

Test	Specification	Result
Appearance (Color)	White	White
Appearance (Form)	Powder	Powder
Assay	98.0 - 102.0 %	99.8 %
Insoluble Matter	≤ 0.005 %	0.003 %
Chloride (Cl) < or = 0.001%	Pass	Pass
Sulfate < or = 0.005%	Pass	Pass
Iron (Fe) < or = 0.001%	Pass	Pass
Heavy Metals by ICP	< = 0.001%	< 0.001%
pH of 5% solution at 25 deg C	8.7 - 9.3	9.2
Note ACS Tests	_____	_____

Brian Dulle, Supervisor
Quality Assurance
St. Louis, Missouri US

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Rec 4/3/23 12

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Certificate of Analysis

Product Name:

Calcium chloride dihydrate - BioReagent, suitable for cell culture, suitable for insect cell culture, suitable for plant cell culture, ≥99.0%

$CaCl_2 \cdot 2H_2O$

Product Number:	**C7902**
Batch Number:	**SLCP4280**
Brand:	SIGMA
CAS Number:	10035-04-8
MDL Number:	MFCD00149613
Formula:	CaCl2 · 2H2O
Formula Weight:	147.01 g/mol
Quality Release Date:	14 NOV 2022
Recommended Retest Date:	AUG 2025

Test	Specification	Result
Appearance (Color)	White	White
Appearance (Form)	Powder	Powder
Solubility (Color)	Colorless	Colorless
Solubility (Turbidity) 294 mg/mL, H2O	Clear	Clear
Titration with EDTA	99.0 - 105.0 %	103.3 %
Cell Culture Test	Pass	Pass
Insect Cell Test	Pass	Pass
Plant Cell Culture Test	Pass	Pass

Brian Dulle, Supervisor
Quality Assurance
St. Louis, Missouri US

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W3018
Rec. 4/3/23

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Certificate of Analysis

Product Name:
Magnesium sulfate heptahydrate - ReagentPlus®, ≥99.0%

Product Number:	**M1880**
Batch Number:	**SLCN3621**
Brand:	SIGALD
CAS Number:	10034-99-8
MDL Number:	MFCD00149785
Formula:	MgO4S · 7H2O
Formula Weight:	246.47 g/mol
Quality Release Date:	04 MAY 2022
Recommended Retest Date:	DEC 2024

$MgSO_4 \cdot 7H_2O$

Test	Specification	Result
Appearance (Color)	White	White
Appearance (Form)	Powder or Crystals	Crystals
Solubility (Color)	Colorless	Colorless
Solubility (Turbidity) 100 mg/mL, H2O	Clear	Clear
Titration with EDTA	≥ 99.0 %	100.6 %

Brian Dulle, Supervisor
Quality Assurance
St. Louis, Missouri US

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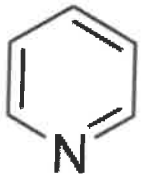
W3019
Rec 4/3/23

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Certificate of Analysis

Product Name:
Pyridine - anhydrous, 99.8%

Product Number:	**270970**
Batch Number:	**SHBQ2113**
Brand:	SIAL
CAS Number:	110-86-1
MDL Number:	MFCD00011732
Formula:	C5H5N
Formula Weight:	79.10 g/mol
Quality Release Date:	15 DEC 2022



Test	Specification	Result
Appearance (Color)	Colorless	Colorless
Appearance (Form)	Liquid	Liquid
Infrared Spectrum	Conforms to Structure	Conforms
Purity (GC)	≥ 99.75 %	99.99 %
Water (by Karl Fischer)	≤ 0.003 %	0.002 %
Residue on Evaporation	≤ 0.0005 %	< 0.0001 %

Larry Coers, Director
Quality Control
Sheboygan Falls, WI US

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W 3020
Rec. 4/3/23
12

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Certificate of Analysis

Product Name:
Calcium nitrate tetrahydrate - ACS reagent, 99%

$Ca(NO_3)_2 \cdot 4H_2O$

Product Number:	**237124**
Batch Number:	**MKCS4612**
Brand:	SIGALD
CAS Number:	13477-34-4
MDL Number:	MFCD00149604
Formula:	CaN2O6 · 4H2O
Formula Weight:	236.15 g/mol
Quality Release Date:	27 FEB 2023
Recommended Retest Date:	SEP 2025

Test	Specification	Result
Appearance (Color)	White	White
Appearance (Form) Granular Powder or Crystals or Flakes	Conforms to Requirements	Crystals
Complexometric EDTA	99.0 - 103.0 %	99.6 %
X-Ray Diffraction	Conforms to Structure	Conforms
pH c = 5%, Water, 25 Deg C	5.0 - 7.0	5.4
Insoluble Matter c = 10%, Water	≤ 0.005 %	< 0.001 %
Chloride Content	≤ 0.005 %	< 0.005 %
Nitrite (NO2)	≤ 0.001 %	< 0.001 %
Sulfate (SO4)	≤ 0.002 %	< 0.002 %
Barium	≤ 0.005 %	< 0.001 %
Heavy Metals by ICP-OES	≤ 5.0 ppm	< 1.0 ppm
Iron (Fe)	≤ 5.0 ppm	< 1.0 ppm
Magnesium (Mg)	≤ 0.05 %	< 0.01 %
Potassium (K)	≤ 0.005 %	< 0.001 %
Sodium (Na)	≤ 0.01 %	< 0.01 %
Strontium (Sr)	≤ 0.05 %	< 0.01 %
Meets ACS Requirements	Current ACS Specification	Conforms

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W3020

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Certificate of Analysis

Product Number: 237124
Batch Number: MKCS4612

Test	Specification	Result
Recommended Retest Period 3 Years	_____	_____

Larry Coers, Director
Quality Control
Milwaukee, WI US

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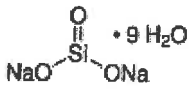
W 3022
Rec. 4/5/23 12

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Certificate of Analysis

Product Name:
Sodium metasilicate nonahydrate - ≥98%

Product Number:	**S4392**
Batch Number:	**SLCM8472**
Brand:	ALDRICH
CAS Number:	13517-24-3
MDL Number:	MFCD00149175
Formula:	Na2O3Si · 9H2O
Formula Weight:	284.20 g/mol
Quality Release Date:	14 MAR 2022
Recommended Retest Date:	MAR 2025



Test	Specification	Result
Appearance (Color)	White	White
Appearance (Form)	Powder	Powder
Solubility (Color) 50 mg/ml, H2O	Colorless	Colorless
Solubility (Turbidity) 50 mg/ml, H2O	Clear	Clear
Titration with HCl	≥ 98 %	100 %

Brian Dulle

Brian Dulle, Supervisor
Quality Assurance
St. Louis, Missouri US

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Sigma-Aldrich.

W 3035
12
Lec. 6/6/23

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Certificate of Analysis

Product Name:
Ammonium persulfate - ACS reagent, ≥98.0%

Product Number:	**248614**
Batch Number:	**MKCR9319**
Brand:	SIGALD
CAS Number:	7727-54-0
MDL Number:	MFCD00003390
Formula Weight:	228.20 g/mol
Quality Release Date:	13 OCT 2022

$(NH_4)_2S_2O_8$

Test	Specification	Result
Appearance (Color)	White to Off White	White
Appearance (Form)	Powder or Crystals or Granules or Chunks	Crystals
ICP Major Analysis Confirms Sulfur Component	Confirmed	Confirmed
Titration by KMNO4	≥ 98.0 %	100.0 %
Residue on ignition (Ash)	≤ 0.05 %	< 0.05 %
Insoluble Matter c = 10 %; In Water	≤ 0.005 %	0.002 %
Chloride and Chlorate (as Cl)	≤ 0.001 %	< 0.001 %
Iron (Fe)	≤ 0.001 %	< 0.001 %
Heavy Metal as Lead	≤ 0.005 %	< 0.001 %
Manganese (Mn)	≤ 0.5 ppm	< 0.1 ppm
Titratable Acid (meq/g)	≤ 0.04	< 0.04
Meets ACS Requirements	Current ACS Specification	Conforms

Larry Coers, Director
Quality Control
Milwaukee, WI US

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N3049
rec. 08/09/23
12

LabChem
Part of TCP Analytical Group
Jackson's Pointe Commerce Park- Building 1000
1010 Jackson's Pointe Court, Zelienople, PA 16063

Certificate of Analysis

Diphenylcarbazone ACS

Product Code: **LC136757**

Manufacture Date: March 16, 2023

Lot Number: **43031219**

Test	Specification	Result
Appearance (color)	orange	orange
Residue after ignition	<= 0.1 %	<0.1%
Sensitivity	To pass test	Passes
Solubility in acetone	To pass test	Passes

Intended Use *- Product is intended for use in manufacturing procedures and laboratory procedures and protocols.*

Storage Information *- Unless noted on the product label, store the product under normal lab conditions in its tightly closed original container. Do not pipet directly from the container or return unused portions to the container.*

Instructions for Handling and Use *- Please refer to the associated product label and Safety Data Sheet (SDS) for informa regarding safety and handling of this product.*

Preparation *- All products are manufactured and tested according to established, documented procedures and methodology Production documentation records manufacturing data, raw material traceability and testing history on a per lot basis. Balance thermometers, and glassware are calibrated before first use and on a regular schedule with references traceable to NIST standards.*

Michael Monteleone

Quality Control
Michael Monteleone
Chemistry Supervisor
20230810 15:29:36 TWalker-0.0

ISO 9001:2015 Registration #0306-01

W3054

Sigma-Aldrich.

12e. 09/14/23

12

3050 Spruce Street, Saint Louis, MO 63103, USA
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Email USA: techserv@sial.com
Outside USA: eurtechserv@sial.com

Certificate of Analysis

Product Name:
Sodium sulfate - ACS reagent, ≥99.0%, anhydrous, granular

Product Number:	**239313**
Batch Number:	**SLCN4535**
Brand:	SIGALD
CAS Number:	7757-82-6
MDL Number:	MFCD00003504
Formula:	SO4.2Na
Formula Weight:	142.04 g/mol
Quality Release Date:	27 MAY 2022
Recommended Retest Date:	MAY 2025

Na_2SO_4

Test	Specification	Result
Appearance (Form) Granular	Conforms	Conforms
Iron (Fe)	< = 0.001%	< = 0.001%
pH 5% at 25°C	5.2 - 9.2	6.1
Insoluble matter	≤ 0.01 %	0.00 %
Loss on Ignition	≤ 0.5 %	0.2 %
Chloride (Cl)	≤ 0.001 %	< 0.001 %
Nitrogen Compounds	≤ 5 ppm	< 5 ppm
Phosphate (PO4)	≤ 0.001 %	< 0.001 %
Calcium (Ca)	≤ 0.01 %	0.00 %
Magnesium (Mg)	≤ 0.005 %	0.000 %
Potassium (K)	≤ 0.01 %	0.00 %
Size 10-60 mesh	Conforms	Conforms
Assay	≥ 99.0 %	99.8 %
Heavy Metals (by ICP-OES)	< = 5 ppm	< 5 ppm
Note ACS tests	----------	----------

Sigma-Aldrich warrants, that at the time of the quality release or subsequent retest date this product conformed to the information contained in this publication. The current Specification sheet may be available at Sigma-Aldrich.com. For further inquiries, please contact Technical Service. Purchaser must determine the suitability of the product for its particular use. See reverse side of invoice or packing slip for additional terms and conditions of sale.

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Certificate of Analysis

Product Number: 239313
Batch Number: SLCN4535

Brian Dulle, Supervisor
Quality Assurance
St. Louis, Missouri US

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N 3055

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REC. 09/14/23

12

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Certificate of Analysis

Product Name:
Sodium sulfate - ACS reagent, ≥99.0%, anhydrous, granular

Product Number:	**239313**
Batch Number:	**SLCP7811**
Brand:	SIGALD
CAS Number:	7757-82-6
MDL Number:	MFCD00003504
Formula:	SO4.2Na
Formula Weight:	142.04 g/mol
Quality Release Date:	02 NOV 2022
Recommended Retest Date:	NOV 2025

Na_2SO_4

Test	Specification	Result
Appearance (Form) Granular	Conforms	Conforms
Iron (Fe)	< = 0.001%	< = 0.001%
pH 5% at 25°C	5.2 - 9.2	6.4
Insoluble matter	≤ 0.01 %	0.00 %
Loss on Ignition	≤ 0.5 %	0.2 %
Chloride (Cl)	≤ 0.001 %	< 0.001 %
Nitrogen Compounds	≤ 5 ppm	< 5 ppm
Phosphate (PO4)	≤ 0.001 %	< 0.001 %
Calcium (Ca)	≤ 0.01 %	0.00 %
Magnesium (Mg)	≤ 0.005 %	0.000 %
Potassium (K)	≤ 0.01 %	0.00 %
Size 10-60 mesh	Conforms	Conforms
Assay	≥ 99.0 %	99.7 %
Heavy Metals (by ICP-OES)	< = 5 ppm	< 5 ppm
Note ACS tests	----------	----------

Sigma-Aldrich warrants, that at the time of the quality release or subsequent retest date this product conformed to the information contained in this publication. The current Specification sheet may be available at Sigma-Aldrich.com. For further inquiries, please contact Technical Service. Purchaser must determine the suitability of the product for its particular use. See reverse side of invoice or packing slip for additional terms and conditions of sale.

Version Number: 1

3050 Spruce Street, Saint Louis, MO 63103, USA
Website: www.sigmaaldrich.com
Email USA: techserv@sial.com
Outside USA: eurtechserv@sial.com

Certificate of Analysis

Product Number: 239313
Batch Number: SLCP7811

Brian Dulle, Supervisor
Quality Assurance
St. Louis, Missouri US

Sigma-Aldrich warrants, that at the time of the quality release or subsequent retest date this product conformed to the information contained in this publication. The current Specification sheet may be available at Sigma-Aldrich.com. For further inquiries, please contact Technical Service. Purchaser must determine the suitability of the product for its particular use. See reverse side of invoice or packing slip for additional terms and conditions of sale.

SAFETY DATA SHEET

W3057 RE- 10/18/23 12

Be Right™

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1. IDENTIFICATION

Product identifier

Product Name BOD Nutrient Buffer Pillows

Other means of identification

Product Code(s) 1486266

Safety data sheet number M00589

Recommended use of the chemical and restrictions on use

Recommended Use Water Analysis. Determination of biochemical oxygen demand.
Uses advised against None.
Restrictions on use None.

Details of the supplier of the safety data sheet

Manufacturer Address
Hach Company, P.O.Box 389, Loveland, CO 80539, USA, +1(970) 669-3050

Emergency telephone number
+1(303) 623-5716 - 24 Hour Service

2. HAZARDS IDENTIFICATION

Classification

Regulatory Status
This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Not a dangerous substance or mixture according to the Globally Harmonized System (GHS)

Hazards not otherwise classified (HNOC)
Not applicable

Label elements

Signal word
None

Hazard statements
The product contains no substances which at their given concentration, are considered to be hazardous to health

Other Hazards Known
Causes mild skin irritation

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance
Not applicable

Mixture

Percent ranges are used where confidential product information is applicable.

Chemical name	CAS No	Percent Range	HMRIC #
Magnesium sulfate	7487-88-9	1 - 5%	-
Phosphoric acid, disodium salt	7558-79-4	1 - 5%	-
Ammonium chloride	12125-02-9	<1%	-
Iron trichloride	7705-08-0	<0.1%	-

4. FIRST AID MEASURES

Description of first aid measures

General advice No hazards which require special first aid measures. Use first aid treatment according to the nature of the injury.

Inhalation Remove to fresh air.

Eye contact Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.

Skin contact Wash skin with soap and water.

Ingestion Clean mouth with water and drink afterwards plenty of water.

Most important symptoms and effects, both acute and delayed

Symptoms See Section 11 for additional Toxicological Information.

Indication of any immediate medical attention and special treatment needed

Note to physicians Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable Extinguishing Media Caution: Use of water spray when fighting fire may be inefficient.

Specific hazards arising from the chemical No information available.

Hazardous combustion products No information available.

Special protective equipment for fire-fighters Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

6. ACCIDENTAL RELEASE MEASURES

U.S. Notice

Only persons properly qualified to respond to an emergency involving hazardous substances may respond to a spill according to federal regulations (OSHA 29 CFR 1910.120(a)(v)) and per your company's emergency response plan and guidelines/procedures. See Section 13, Special Instructions for disposal assistance. Outside of the US, only persons properly qualified according to state or local regulations should respond to a spill involving chemicals.

Personal precautions, protective equipment and emergency procedures

Personal precautions Ensure adequate ventilation.

Environmental precautions

Environmental precautions See Section 12 for additional ecological information.

Methods and material for containment and cleaning up

Methods for containment Prevent further leakage or spillage if safe to do so.

Methods for cleaning up Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Take up mechanically, placing in appropriate containers for disposal.

Prevention of secondary hazards Clean contaminated objects and areas thoroughly observing environmental regulations.

Reference to other sections See section 8 for more information. See section 13 for more information.

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on safe handling Handle in accordance with good industrial hygiene and safety practice.

Conditions for safe storage, including any incompatibilities

Storage Conditions Keep containers tightly closed in a dry, cool and well-ventilated place.

Flammability class Not applicable

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure Guidelines

Chemical name	ACGIH TLV	OSHA PEL	NIOSH
Ammonium chloride CAS#: 12125-02-9	STEL: 20 mg/m³ fume TWA: 10 mg/m³ fume	(vacated) TWA: 10 mg/m³ (vacated) STEL: 20 mg/m³	TWA: 10 mg/m³ fume STEL: 20 mg/m³ fume
Iron trichloride CAS#: 7705-08-0	TWA: 1 mg/m³ Fe	(vacated) TWA: 1 mg/m³	TWA: 1 mg/m³ Fe

Appropriate engineering controls

Engineering Controls

Showers
Eyewash stations
Ventilation systems. Technical measures and appropriate working operations should be given priority over the use of personal protective equipment. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Individual protection measures, such as personal protective equipment

Respiratory protection	No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required. Ensure adequate ventilation.
Hand Protection	Wear suitable gloves. Barrier creams may help to protect the exposed areas of skin. Gloves must be inspected prior to use. The selected protective gloves have to satisfy the specifications of EU Directive 2016/425 and the standard EN 374 derived from it. Chemical resistant gloves made of butyl rubber or nitrile rubber category III according to EN 374-1:2016.
Eye/face protection	Wear safety glasses with side shields (or goggles).
Skin and body protection	No special protective equipment required. Avoid contact with eyes, skin and clothing.
General Hygiene Considerations	Handle in accordance with good industrial hygiene and safety practice.
Environmental exposure controls	Local authorities should be advised if significant spillages cannot be contained. Do not allow into any sewer, on the ground or into any body of water.
Thermal hazards	None under normal processing.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical state	Liquid		
Appearance	Turbid solution aqueous solution	**Color**	white
Odor	Odorless	**Odor threshold**	No data available

Property	Values	Remarks • Method
Molecular weight	No data available	
pH	7.6	@ 20 °C
Melting point/freezing point	~ -4 °C / 24.8 °F	
Initial boiling point and boiling range	~ 101 °C / 213.8 °F	
Evaporation rate	0.72 (water = 1)	
Vapor pressure	17.177 mm Hg / 2.29 kPa at 20 °C / 68 °F	
Relative vapor density	0.62	
Specific gravity - VALUE 1	1.057	
Partition Coefficient (n-octanol/water)	Not applicable	
Soil Organic Carbon-Water Partition Coefficient	Not applicable	
Autoignition temperature	No data available	
Decomposition temperature	No data available	
Dynamic viscosity	No data available	
Kinematic viscosity	No data available	

Solubility(ies)

Water solubility

Water solubility classification	Water solubility	Water Solubility Temperature
No information available	No data available	No information available

Solubility in other solvents

Chemical Name	Solubility classification	Solubility	Solubility Temperature
Acid	Soluble	> 1000 mg/L	25 °C / 77 °F
Aqueous alkaline solutions	Soluble	> 1000 mg/L	25 °C / 77 °F
Ethyl alcohol	Slightly soluble	> 0.1 mg/L	25 °C / 77 °F

Other information

Metal Corrosivity

Steel Corrosion Rate No data available
Aluminum Corrosion Rate No data available

Volatile Organic Compounds (VOC) Content

Chemical name	CAS No	Volatile organic compounds (VOC) content	CAA (Clean Air Act)
Magnesium sulfate	7487-88-9	No data available	-
Phosphoric acid, disodium salt	7558-79-4	No data available	-
Ammonium chloride	12125-02-9	No data available	-
Iron trichloride	7705-08-0	No data available	-

Explosive properties

Upper explosion limit No data available
Lower explosion limit No data available

Flammable properties

Flash point No data available

Flammability Limit in Air
Upper flammability limit: No data available
Lower flammability limit: No data available

Oxidizing properties No data available.

Bulk density No data available

10. STABILITY AND REACTIVITY

Reactivity
Not applicable.

Chemical stability
Stable under normal conditions.

Explosion data

Sensitivity to Mechanical Impact None.
Sensitivity to Static Discharge None.

Possibility of hazardous reactions
None under normal processing.

Hazardous polymerization
None under normal processing.

Conditions to avoid
None known based on information supplied.

Incompatible materials
Strong oxidizing agents, strong acids, and strong bases.

Hazardous decomposition products
None known based on information supplied.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information

Inhalation	No known effect based on information supplied.
Eye contact	No known effect based on information supplied.
Skin contact	No known effect based on information supplied.
Ingestion	No known effect based on information supplied.
Symptoms	No information available.

Acute toxicity
Based on available data, the classification criteria are not met

Mixture
No data available.

Ingredient Acute Toxicity Data
Test data reported below.

Oral Exposure Route

Chemical name	Endpoint type	Reported dose	Exposure time	Toxicological effects	Key literature references and sources for data
Ammonium chloride (<1%) CAS#: 12125-02-9	Rat LD_{50}	1650 mg/kg	None reported	None reported	IUCLID
Iron trichloride (<0.1%) CAS#: 7705-08-0	Rat LD_{50}	450 mg/kg	None reported	None reported	LOLI

Unknown Acute Toxicity
0% of the mixture consists of ingredient(s) of unknown toxicity.

Acute Toxicity Estimations (ATE)

The following values are calculated based on chapter 3.1 of the GHS document

ATEmix (oral)	21,824.50 mg/kg
ATEmix (dermal)	No information available
ATEmix (inhalation-dust/mist)	No information available
ATEmix (inhalation-vapor)	No information available
ATEmix (inhalation-gas)	No information available

Skin corrosion/irritation
Based on available data, the classification criteria are not met.

Mixture
No data available.

Ingredient Skin Corrosion/Irritation Data
Test data reported below.

Chemical name	Test method	Species	Reported dose	Exposure time	Results	Key literature references and sources for data
Phosphoric acid, disodium salt (1 - 5%) CAS#: 7558-79-4	Standard Draize Test	Rabbit	500 mg	24 hours	Skin irritant	RTECS
Ammonium chloride (<1%) CAS#: 12125-02-9	Existing human experience	Human	None reported	None reported	Mild skin irritant	RTECS

Serious eye damage/irritation
Based on available data, the classification criteria are not met.

Mixture
No data available.

Ingredient Eye Damage/Eye Irritation Data
Test data reported below.

Chemical name	Test method	Species	Reported dose	Exposure time	Results	Key literature references and sources for data
Phosphoric acid, disodium salt (1 - 5%) CAS#: 7558-79-4	Standard Draize Test	Rabbit	500 mg	24 hours	Eye irritant	RTECS

Respiratory or skin sensitization
Based on available data, the classification criteria are not met.

Mixture
No data available.

Ingredient Sensitization Data
Test data reported below.

Skin Sensitization Exposure Route

Chemical name	Test method	Species	Results	Key literature references and sources for data
Ammonium chloride (<1%) CAS#: 12125-02-9	OECD Test No. 406: Skin Sensitization	Guinea pig	Not confirmed to be a skin sensitizer	OECD 429: Skin Sensitization: Local Lymph Node Assay

STOT - single exposure
Based on available data, the classification criteria are not met.

Mixture
No data available.

Ingredient Specific Target Organ Toxicity Single Exposure Data
Test data reported below.

Oral Exposure Route

Chemical name	Endpoint type	Reported dose	Exposure time	Toxicological effects	Key literature references and sources for data
Ammonium chloride (<1%) CAS#: 12125-02-9	Domestic mammal - Not specified LD_{Lo}	1500 mg/kg	None reported	None reported	RTECS
Iron trichloride (<0.1%) CAS#: 7705-08-0	Woman LD_{Lo}	4 mg/kg	None reported	**Lungs, Thorax, or Respiration** Dyspnea **Gastrointestinal** Nausea or vomiting **Nutritional and Gross Metabolic** Metabolic acidosis	RTECS

STOT - repeated exposure
Based on available data, the classification criteria are not met.

Mixture
No data available.

Ingredient Specific Target Organ Toxicity Repeat Exposure Data
Test data reported below.

Oral Exposure Route

Chemical name	Endpoint type	Reported dose	Exposure time	Toxicological effects	Key literature references and sources for data
Ammonium chloride (<1%) CAS#: 12125-02-9	Rat TD_{Lo}	3500 mg/kg	7 days	No toxicological effects observed	RTECS
Iron trichloride (<0.1%) CAS#: 7705-08-0	Rat TD_{Lo}	7728 mg/kg	210 days	**Behavioral** Fluid intake **Biochemical** Enzyme inhibition, induction, or change in blood or tissue levels (true cholinesterase) **Blood** Changes in blood leukocyte count	RTECS

Carcinogenicity
Based on available data, the classification criteria are not met.

Mixture
No data available.

Ingredient Carcinogenicity Data
No data available.

Chemical name	CAS No	ACGIH	IARC	NTP	OSHA
Magnesium sulfate	7487-88-9	-	-	-	-
Phosphoric acid, disodium salt	7558-79-4	-	-	-	-
Ammonium chloride	12125-02-9	-	-	-	-
Iron trichloride	7705-08-0	-	-	-	-

Legend

ACGIH (American Conference of Governmental Industrial Hygienists)	Does not apply
IARC (International Agency for Research on Cancer)	Does not apply
NTP (National Toxicology Program)	Does not apply
OSHA	Does not apply

Germ cell mutagenicity
Based on available data, the classification criteria are not met.

Mixture *invitro* Data
No data available.

Substance *invitro* Data
Test data reported below.

Chemical name	Test	Cell Strain	Reported dose	Exposure time	Results	Key literature references and sources for data
Ammonium chloride (<1%) CAS#: 12125-02-9	OECD 471	*Salmonella typhimurium*	5 mg/plate	72 hours	Negative	RTECS
Iron trichloride (<0.1%) CAS#: 7705-08-0	DNA inhibition	Human lymphocyte	4800 mmol/L	None reported	Positive test result for mutagenicity	RTECS

Mixture *invivo* Data
No data available.

Substance *invivo* Data
No data available.

Reproductive toxicity
Based on available data, the classification criteria are not met.

Mixture
No data available.

Ingredient Reproductive Toxicity Data
Test data reported below.

Oral Exposure Route

Chemical name	Endpoint type	Reported dose	Exposure time	Toxicological effects	Key literature references and sources for data
Ammonium chloride (<1%) CAS#: 12125-02-9	Rat NOAEL	1500 mg/kg	16 days	None reported	ECHA

Aspiration hazard
Based on available data, the classification criteria are not met.

12. ECOLOGICAL INFORMATION

Ecotoxicity Based on available data, the classification criteria are not met.

Unknown aquatic toxicity 0% of the mixture consists of components(s) of unknown hazards to the aquatic environment.

Mixture

Aquatic Acute Toxicity
No data available.

Aquatic Chronic Toxicity
No data available.

Substance

Aquatic Acute Toxicity
Test data reported below.

Fish

Chemical name	Exposure time	Species	Endpoint type	Reported dose	Key literature references and sources for data
Magnesium sulfate (1 - 5%) CAS#: 7487-88-9	96 hours	*Gambusia affinis*	LC_{50}	15500 mg/L	IUCLID
Ammonium chloride (<1%) CAS#: 12125-02-9	96 hours	*Oncorhynchus mykiss*	LC_{50}	42.91 mg/L	ECHA

Crustacea

Chemical name	Exposure time	Species	Endpoint type	Reported dose	Key literature references and sources for data
Ammonium chloride (<1%) CAS#: 12125-02-9	48 Hours	*Daphnia magna*	LC_{50}	161 mg/L	IUCLID

Algae

Chemical name	Exposure time	Species	Endpoint type	Reported dose	Key literature references and sources for data
Magnesium sulfate (1 - 5%) CAS#: 7487-88-9	72 Hours	*Scenedesmus subspicatus*	EC_{50}	2700 mg/L	IUCLID
Iron trichloride (<0.1%) CAS#: 7705-08-0	96 hours	*Chlorella vulgaris*	EC_{50}	1421.3 mg/L	IUCLID

Aquatic Chronic Toxicity
No data available.

Persistence and degradability

Mixture
No data available.

Bioaccumulation
There is no data for this product
Mixture
No data available.

Partition Coefficient (n-octanol/water)	Not applicable

Mobility

Soil Organic Carbon-Water Partition Coefficient	Not applicable

Other adverse effects
No information available

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Waste from residues/unused products	Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.
Contaminated packaging	Do not reuse empty containers.
Special instructions for disposal	If permitted by regulation. Open cold water tap completely, slowly pour the material to the drain. Allow cold water to run for 5 minutes to completely flush the system. Check with local municipal and state authorities and waste contractors for pertinent local information regarding the proper disposal of chemicals.

14. TRANSPORT INFORMATION

DOT	Not regulated
TDG	Not regulated
IATA	Not regulated
IMDG	Not regulated
Note:	No special precautions necessary.

Additional information
There is a possibility that this product could be contained in a reagent set or kit composed of various compatible dangerous goods.
If the item is not in a reagent set or kit, the classification given above applies.
If the item is part of a reagent set or kit the classification would change to the following:
UN3316 Chemical Kit, Hazard Class 9, Packing Group II or III.
If the item is not regulated, the Chemical Kit classification does not apply.

15. REGULATORY INFORMATION

National Inventories

TSCA	Complies
DSL/NDSL	Complies

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

International Inventories

EINECS/ELINCS	Complies
ENCS	Complies
IECSC	Complies
KECL - Existing substances	Complies
PICCS	Complies

TCSI	Complies
AICS	Complies
NZIoC	Complies

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances
ENCS - Japan Existing and New Chemical Substances
IECSC - China Inventory of Existing Chemical Substances
KECL - Korean Existing and Evaluated Chemical Substances
PICCS - Philippines Inventory of Chemicals and Chemical Substances
TCSI - Taiwan Chemical Substances Inventory
AICS - Australian Inventory of Chemical Substances
NZIoC - New Zealand Inventory of Chemicals

US Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

Chemical name	SARA 313 - Threshold Values %
Ammonium chloride (CAS #: 12125-02-9)	1.0

SARA 311/312 Hazard Categories

Acute health hazard	No
Chronic Health Hazard	No
Fire hazard	No
Sudden release of pressure hazard	No
Reactive Hazard	No

CWA (Clean Water Act)

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

Chemical name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Phosphoric acid, disodium salt 7558-79-4	5000 lb	-	-	X
Ammonium chloride 12125-02-9	5000 lb	-	-	X
Iron trichloride 7705-08-0	1000 lb	-	-	X

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

Chemical name	Hazardous Substances RQs	CERCLA/SARA RQ	Reportable Quantity (RQ)
Phosphoric acid, disodium salt 7558-79-4	5000 lb	-	RQ 5000 lb final RQ RQ 2270 kg final RQ
Ammonium chloride 12125-02-9	5000 lb	-	RQ 5000 lb final RQ RQ 2270 kg final RQ
Iron trichloride 7705-08-0	1000 lb	-	RQ 1000 lb final RQ RQ 454 kg final RQ

US State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals

U.S. State Right-to-Know Regulations

This product may contain substances regulated by state right-to-know regulations.

Chemical name	New Jersey	Massachusetts	Pennsylvania
Phosphoric acid, disodium salt 7558-79-4	X	X	X
Ammonium chloride 12125-02-9	X	X	X
Iron trichloride 7705-08-0	X	X	X

U.S. EPA Label Information

Chemical name	FIFRA	FDA
Magnesium sulfate	-	21 CFR 184.1443
Phosphoric acid, disodium salt	180.0910	21 CFR 182.1778,21 CFR 182.6290,21 CFR 182.6778,21 CFR 182.8778
Ammonium chloride	180.0920	21 CFR 184.1138
Iron trichloride	180.0920	21 CFR 184.1297

16. OTHER INFORMATION, INCLUDING DATE OF PREPARATION OF THE LAST REVISION

Special Comments

None

Additional information

Global Automotive Declarable Substance List (GADSL)

Chemical name	Global Automotive Declarable Substance List Classifications	Global Automotive Declarable Substance List Thersholds
Magnesium sulfate 7487-88-9	Declarable Substance (FI)	1 % 0.1 %

NFPA and HMIS Classifications

NFPA	**Health hazards** - 0	**Flammability** - 0	**Instability** - 0	**Physical and chemical properties** -
HMIS	**Health hazards** - 0	**Flammability** - 0	**Physical hazards** - 0	**Personal protection** - X - I

Key or legend to abbreviations and acronyms used in the safety data sheet

ACGIH	ACGIH (American Conference of Governmental Industrial Hygienists)
ATSDR	ATSDR (Agency for Toxic Substances and Disease Registry)
CCRIS	CCRIS (Chemical Carcinogenesis Research Information System)
CDC	CDC (Center for Disease Control)
CEPA	CEPA (Canadian Environmental Protection Agency)
CICAD	CICAD (Concise International Chemical Assessment Documents)
ECHA	ECHA (The European Chemicals Agency)
EEA	EEA (European Environment Agency)
EPA	EPA (Environmental Protection Agency)
ERMA	ERMA (New Zealands Environmental Risk Management Authority)
ECOSARS	Estimation through ECOSARS v1.11 part of the Estimation Programs Interface (EPI) Suite™

FDA	FDA (Food & Drug Administration)
GESTIS	GESTIS (Information System on Hazardous Substances of the German Social Accident Insurance)
HSDB	HSDB (Hazardous Substances Data Bank)
INERIS	INERIS (The National Industrial Environment and Risks Institute)
IPCS INCHEM	IPCS INCHEM (International Programme on Chemical Safety)
IUCLID	IUCLID (The International Uniform Chemical Information Database)
NITE	Japan National Institute of Technology and Evaluation (NITE)
NIH	NIH (National Institutes of Health)
NIOSH	NIOSH (National Institute for Occupational Safety and Health)
LOLI	LOLI (List of Lists - An International Chemical Regulatory Database)
NDF	no data
NICNAS	Australia National Industrial Chemicals Notification and Assessment Scheme (NICNAS)
NIOSH IDLH	Immediately Dangerous to Life or Health
OSHA	OSHA (Occupational Safety and Health Administration of the US Department of Labor)
PEEN	PEEN (Pan European Ecological Network)
RTECS	RTECS (Registry of Toxic Effects of Chemical Substances)
SIDS	SIDS (Screening Information Dataset) for High Volume Chemicals
SYKE	The Finnish Environment Institute (SYKE)
USDA	USDA (United States Department of Agriculture)
USDC	USDC (United States Department of Commerce)
WHO	WHO (World Health Organization)

Legend - Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

TWA	TWA (time-weighted average)	STEL	STEL (Short Term Exposure Limit)
MAC	Maximum Allowable Concentration	Ceiling	Ceiling Limit Value
X	Listed	Vacated	These values have no official status. The only binding levels of contaminants are those listed in the final OSHA PEL. These lists are for reference purposes only. Please note that some reference state regulations of these "liberated" exposure limits in their state regulations.
SKN*	Skin designation	SKN+	Skin sensitization
RSP+	Respiratory sensitization	**	Hazard Designation
C	Carcinogen	R	Reproductive toxicant
M	mutagen		

Prepared By	Hach Product Compliance Department
Issue Date	12-May-2021
Revision Date	30-May-2023
Revision Note	None

Disclaimer

USER RESPONSIBILITY: Each user should read and understand this information and incorporate it in individual site safety programs in accordance with applicable hazard communication standards and regulations.

THE INFORMATION CONTAINED HEREIN IS BASED ON DATA CONSIDERED TO BE ACCURATE. HOWEVER, NO WARRANTY IS EXPRESSED OR IMPLIED REGARDING THE ACCURACY OF THESE DATA OR THE RESULTS TO BE OBTAINED FROM THE USE THEREOF.

HACH COMPANY©2023

End of Safety Data Sheet

Certificate Of Analysis

W 3058

Rec. 10/19/23 12

Date of Release: 1/27/2023

Name: **Sodium Carbonate, Anhydrous**
Powder, ACS

Item No: **SX0395 All Sizes**
Lot / Batch No: **2023012653**
Country of Origin: **India**

Item	Specifications	Analysis
Assay (calculated on dried substance)	99.5% min.	100.2%
Calcium (Ca)	0.03% max.	0.004%
Chloride (Cl)	0.001% max.	<0.001%
Color	White	Passes Test
Form	Powder	Passes Test
Heavy metals (by ICP-OES)	5 ppm max.	<5 ppm
Insoluble Matter	0.01% max.	0.003%
Iron (Fe)	5 ppm max.	<5 ppm
Loss on heating at 285C	1.0% max.	0.1%
Magnesium (Mg)	0.005% max.	0.0008%
Phosphate (PO4)	0.001% max.	<0.001%
Potassium (K)	0.005% max.	0.003%
Silica (SiO2)	0.005% max.	<0.005%
Sulfur compounds (as SO4)	0.003% max.	<0.003%

Joe Schoellkopff

Quality Control Manager

This document has been produced electronically and is valid without a signature.

EMD Millipore is a division of Merck KGaA, Darmstadt, Germany

EMD Millipore Corporation
400 Summit Drive
Burlington, MA 01803
U.S.A.

Form number: 00005624CA, Rev. 2.0

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POLYSEED®

CERTIFICATE OF ANALYSIS

PO BOX 130549 Spring, TX 77393
Phone: (281) 298-9410 Fax: (281) 298-9411

FINISHED PRODUCT, LOT NUMBER, MFG. /EXP DATE:
PolySeed® • Part No. P-110 • Lot 152305 • Mfg. Date: 05/2023 • Exp. Date: 05/2025

FORMULATION:
The formulation for this product contains a range of naturally occurring microorganisms, which are known to be non-pathogenic to man or animals.

VIABLE COUNT, FINAL TEST RESULT:
The product has been fully tested in accordance with Finished Product Specifications and contains a minimum viable count of 4.00 x10^9 cfu/g.

GLUCOSE/GLUTAMIC-ACID RESULTS:
Tested results within acceptable range 198 +/- 30.5 mg/L (167.5 - 228.5 mg/L). GGA Lot# L257-09 – Average Test Result: 203.4

See www.polyseed.com for details.

SEED CONTROL FACTOR:
Tested results within acceptable range 0.6 – 1.0 see www.polyseed.com for details

SALMONELLA TEST RESULT:
The product has been shown to be Salmonella negative using procedures recommended in the Microbiology Laboratory Guidebook, published by the USDA Food Safety and Inspection Service.

The purpose of this document is to assure that the Finished Product conforms to the above specification.

Signature: _____ Date: 05/15/2023
Quality Control Department

POLYSEED.Ref.1.19 Revised Jan 23

InterLab®
International Laboratory Supply

ISO 9002 DNV DNV Certification, Inc. REGISTERED FIRM

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Certificate of Analysis

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Christiansburg, VA 24073 USA
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info@inorganicventures.com

N 3062
NEC on 10/30/23
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1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Multi Analyte Ion Chromatography Solution
Catalog Number:	300-CAL-A
Lot Number:	T2-MEB716667
Matrix:	H2O
Value / Analyte(s):	150 µg/mL ea: Sulfate, 100 µg/mL ea: Bromide, 50 µg/mL ea: o-Phosphate as P, 30 µg/mL ea: Chloride, Nitrite as N, 25 µg/mL ea: Nitrate as N, 20 µg/mL ea: Fluoride

3.0 CERTIFIED VALUES AND UNCERTAINTIES

ANALYTE	CERTIFIED VALUE	ANALYTE	CERTIFIED VALUE
Bromide, Br	100.0 ± 0.5 µg/mL	Chloride, Cl	30.00 ± 0.13 µg/mL
Fluoride, F-	20.00 ± 0.06 µg/mL	Nitrate as N, NNO3-	25.00 ± 0.09 µg/mL
Nitrite as N, NNO2-	30.00 ± 0.15 µg/mL	o-Phosphate as P, PPO4	50.00 ± 0.30 µg/mL
Sulfate, SO4	150.0 ± 0.9 µg/mL		

Density: 0.999 g/mL (measured at 20 ± 4 °C)

Assay Information:

ANALYTE	METHOD	NIST SRM#	SRM LOT#
Br	IC Assay	3184	151130
Br	Fajans	999c	999c
Cl	IC Assay	3182	060925
Cl	Fajans	999c	999c
Cl	Calculated		See Sec. 4.2
F-	IC Assay	3183	140203
NNO3-	IC Assay	3185	050517
NNO2-	IC Assay		traceable to 40h
PPO4	IC Assay	3186	170606
SO4	IC Assay	3181	080603

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\,(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 CHROMATOGRAM

N/A

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

March 17, 2022

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- March 17, 2027

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Thomas Kozikowski
Manager, Quality Control



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director



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Certificate of Analysis

300 Technology Drive
Christiansburg, VA 24073 USA
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F: 540-585-3012
info@inorganicventures.com

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1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 863.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Multi Analyte Ion Chromatography Solution
Catalog Number:	300-CAL-A
Lot Number:	U2-MEB735684
Matrix:	H2O
Value / Analyte(s):	150 µg/mL ea: Sulfate, 100 µg/mL ea: Bromide, 50 µg/mL ea: o-Phosphate as P, 30 µg/mL ea: Chloride, Nitrite as N, 25 µg/mL ea: Nitrate as N, 20 µg/mL ea: Fluoride

3.0 CERTIFIED VALUES AND UNCERTAINTIES

ANALYTE	CERTIFIED VALUE	ANALYTE	CERTIFIED VALUE
Bromide, Br	100.0 ± 0.5 µg/mL	Chloride, Cl	30.00 ± 0.14 µg/mL
Fluoride, F-	20.00 ± 0.06 µg/mL	Nitrate as N, NNO3-	25.00 ± 0.09 µg/mL
Nitrite as N, NNO2-	30.00 ± 0.15 µg/mL	o-Phosphate as P, PPO4	50.00 ± 0.18 µg/mL
Sulfate, SO4	150.0 ± 0.8 µg/mL		

Density: 0.999 g/mL (measured at 20 ± 4 °C)

Assay Information:

ANALYTE	METHOD	NIST SRM#	SRM LOT#
Br	IC Assay	3184	151130
Br	Fajans	999c	999c
Cl	IC Assay	3182	190830
Cl	Fajans	999c	999c
F-	IC Assay	3183	140203
NNO3-	IC Assay	3185	170309
NNO2-	IC Assay		traceable to 40h
PPO4	IC Assay	3186	170606
SO4	IC Assay	3181	080603

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 CHROMATOGRAM

N/A

6.0 INTENDED USE

6.1 This standard is intended for the calibration of analytical instruments and validation of analytical methods as appropriate. This CRM may be used in connection with EPA Methods 6010, 6020 (all versions), Standard Methods 3120 B and USP <232> / ICH Q3D.

6.2 For products attaining traceability through Inorganic Ventures' Primary Certified Reference Materials (PCRM™) see the Limited License to Use PCRM™ in the Inorganic Ventures Terms and Conditions of Sale https://www.inorganicventures.com/terms-and-conditions-sale. The Terms and Conditions contain information on the use of materials traceable to PCRM™ certified reference materials. This Limited License agreement is especially pertinent for laboratories accredited under ISO:17034.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

August 10, 2023

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- August 10, 2028

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

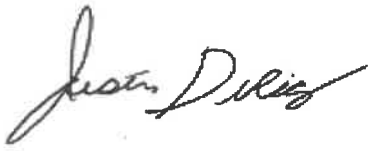
- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Prepared By:

Justin Dirico
Stock Processing Supervisor



Certificate Approved By:

Nicholas Plymale
Custom VSM Coordinator



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director



ENVIRONMENTAL EXPRESS
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W 3065
W 3066
W 3067
W 3068

Rec. 11/14/23
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August 16, 2023

CERTIFICATE OF ANALYSIS

Environmental Express certifies that the following COD Reagent Vials have been rigorously checked against NIST Traceable standards and also compared for conformance to another major brand name product. Environmental Express COD Vial performance is evaluated using bench top spectrophotometers. Acceptance guidelines are strict and ensure dependable, quality results.

Environmental Express further certifies that the COD products listed below are recognized by the United States Environmental Protection Agency (USEPA) as equivalent to an approved Water Pollutant Testing Procedure for COD (Federal Register, Vol. 45, No. 78, Monday, April 20th, 1980, page 26811) and as such can be used for National Pollution Discharge Elimination System (NPDES) reporting.

Cat. No.	Lot No.	Product Description
B1010	3GE1024	COD Reagent Vials, 0 - 150 ppm

RICCA CHEMICAL COMPANY®

1841 Broad Street
Pocomoke City, MD 21851
http://www.riccachemical.com
1-888-GO-RICCA
customerservice@riccachemical.com

W3072
rec. 12/01/23
12

Certificate of Analysis

Buffer, Reference Standard, pH 12.00 ± 0.01 at 25°C

Lot Number: 2310P21 **Product Number:** 1615

Manufacture Date: OCT 24, 2023
Expiration Date: APR 2025

The certified value for this product is confirmed in independent testing by a second qualified chemist.

°C	15	20	25	30	35	40
pH	12.35	12.17	11.99	11.78	11.62	11.46

Name	CAS#	Grade
Water	7732-18-5	ACS/ASTM/USP/EP
Potassium Chloride	7447-40-7	ACS
Sodium Hydroxide	1310-73-2	Reagent

Test	Specification	Result	
Appearance	Colorless liquid	Passed	*Not a certified value.

Test	Certified Value	Uncertainty	NIST SRM#
pH at 25°C (Method: SQCP027, SQCP033)	12.005	0.02	186-I-g, 186-II-g, 191d

pH measurements were performed in our Pocomoke City, MD laboratory under ISO/IEC 17025 accreditation (ANAB Certificate L2387.01) and are certified traceable to National Institute of Standards and Technology (NIST) Standard Reference Material as indicated above via an unbroken chain of comparisons. The uncertainty is calculated from the uncertainty of the measurement variation from sample to sample, the uncertainty in the NIST Standard Reference Material, and the uncertainty of the measurement process. The uncertainty is multiplied by k=2, corresponding to 95% coverage in a normal distribution. Volumetric glassware complies with Class A tolerance requirements of ASTM E 288 and NIST Circular 434; it is calibrated before first use and recalibrated regularly in accordance with ASTM E 542 and NIST Procedure NBSIR 74-461. Balances are calibrated regularly with weights certified traceable to the NIST national mass standard. Thermometers and temperature probes are calibrated before first use and recalibrated regularly with a thermometer traceable to NIST standards. All products are prepared according to master documents that assure manufacture according to validated methods. Batch records document raw material traceability and production and testing history for each lot manufactured.

Part Number	Size / Package Type	Shelf Life (Unopened Container)
1615-1	4 L natural poly	18 months
1615-16	500 mL clear PET-G	18 months
1615-32	1 L natural poly	18 months
1615-5	20 L Cubitainer®	18 months

Recommended Storage: 15°C - 30°C (59°F - 86°F)

Sharon Travers (10/24/2023)
Operations Manager
This document is designed to comply with ISO Guide 31 "Reference Materials -- Contents of Certificates and Labels."

This product was tested in an ISO 17025 Accredited Laboratory

This test report shall not be reproduced, except in full, without the written approval of Ricca Chemical Company.

W2723, W2724, W2725, W2726 Received on 6/22/20 by AP

Certificate of Analysis

Date of Release:	2/26/2020
Name:	Formaldehyde Solution GR ACS Meets ACS Specifications
Item No:	FX0410 all size codes
Lot / Batch No:	60045
Country of Origin:	USA

Characteristic	Requirement		Results	Units
	Min.	Max.		
Assay	36.5	38.0	36.71	%
Chloride (Cl)		5	<5	ppm
Color (APHA)		10	<10	
Form			Passes test	
Heavy metals (as Pb)		5	<5	ppm
Iron (Fe)		5	0.6	ppm
Residue after ignition		0.005	<0.0050	%
Sulfate (SO4)		0.002	<0.0020	%
Titrable acid		0.006	<0.0060	meq/g

Heather Sinn,
_____
Quality Control Manager
This document has been produced electronically and is valid without a signature.

EMD Millipore Corporation, an affiliate of Merck KGaA, Darmstadt, Germany
290 Concord Road
Billerica, MA 01821
U.S.A
The life science business of Merck KGaA, Darmstadt, Germany operates as MilliporeSigma in the U.S. and Canada.

Certificate Of Analysis

Date of Release: 11/14/2019

W2700 Recived by AP on 3/11/2020

Name: **Sodium Borate, Decahydrate**
ACS

Item No: **SX0355 All Sizes**
Lot / Batch No: **2019111354**
Country of Origin: **India**

Item	Specifications	Analysis
Assay (Na2B4O7 • 10H2O)	99.5 - 105.0%	101.7%
Calcium (Ca)	0.005% max.	0.003%
Chloride (Cl)	0.001% max.	<0.001%
Color	White	Passes Test
Form	Crystals	Passes Test
Heavy Metals (as Pb)	0.001% max.	<0.001%
Insoluble Matter	0.005% max.	0.002%
Iron (Fe)	5 ppm max.	<5 ppm
pH of a 0.01 M solution at 25C	9.15 - 9.20	9.17
Phosphate (PO4)	0.001% max.	<0.001%
Sulfate (SO4)	0.005% max.	<0.005%

Joe Schoellkopff

Quality Control Manager

This document has been produced electronically and is valid without a signature.

EMD Millipore is a division of Merck KGaA, Darmstadt, Germany

EMD Millipore Corporation
400 Summit Drive
Burlington, MA 01803
U.S.A.

Form number: 00005624CA, Rev. 2.0

W2862
AP : 07/13/21

Certificate of Analysis

Date of Release: 10/24/2019

Name: Sodium carbonate anhydrous

Grade: Meets ACS Specifications. Meets Reagent Specifications for testing USP/NF monographs.

Item No: SX0395-3

Lot No.: 20A225205

Country of Origin: USA

Characteristic	Requirement	Results
Assay (calculated on dried substance)	Min. 99.5 %	100.1 %
Color	White	White
Form	Powder	Powder
Heavy metals (ICP-OES)	Max. 5 ppm	< 5 ppm
Insoluble matter	Max. 0.01 %	< 0.01 %
Loss on heating (285°C)	Max. 1.0 %	< 1.0 %
Sulphur compounds (as SO4)	Max. 0.003 %	< 0.003 %
Cl (Chloride)	Max. 0.001 %	< 0.001 %
PO4 (Phosphate)	Max. 0.001 %	< 0.001 %
SiO2 (Silica)	Max. 0.005 %	< 0.005 %
Ca (Calcium)	Max. 0.03 %	0.005 %
Fe (Iron)	Max. 5 ppm	< 5 ppm
K (Potassium)	Max. 0.005 %	< 0.005 %
Mg (Magnesium)	Max. 0.005 %	< 0.005 %

Joe Schoellkopff

Quality Control Manager

This document has been produced electronically and is valid without signature.

EMD Millipore is a division of Merck KGaA, Darmstadt, Germany

EMD Millipore Corporation
400 Summit Drive
Burlington, MA 01803
U.S.A.

Form number: 00005624CA, Rev. 2.0

Certificate of Analysis

1 Reagent Lane
Fair Lawn, NJ 07410
201.796.7100 tel
201.796.1329 fax

Thermo Fisher Scientific's Quality System has been found to conform to Quality Management System Standard ISO9001:2015 by SAI Global Certificate Number CERT – 0120632

This is to certify that units of the lot number below were tested and found to comply with the specifications of the grade listed. Certain data have been supplied by third parties. Thermo Fisher Scientific expressly disclaims all warranties, expressed or implied, including the implied warranties of merchantability and fitness for a particular purpose. Products are for research use or further manufacturing. Not for direct administration to humans or animals. It is the responsibility of the final formulator and end user to determine suitability based upon the intended use of the end product. Products are tested to meet the analytical requirements of the noted grade. The following information is the actual analytical results obtained.

Catalog Number	P217	Quality Test / Release Date	09/03/2020
Lot Number	198947		
Description	POTASSIUM CHLORIDE, A.C.S.		
Country of Origin	United States	Suggested Retest Date	Sep/2025
Chemical Origin	Inorganic-non animal		
BSE/TSE Comment	No animal products are used as starting raw material ingredients, or used in processing, including lubricants, processing aids, or any other material that might migrate to the finished product.		

N/A			
Result Name	Units	Specifications	Test Value
APPEARANCE		REPORT	White crystals
ASSAY	%	Inclusive Between 99.0 - 100.5	99.7
BARIUM (Ba)	PASS/FAIL	= P.T. (ABOUT 0.001%)	P.T. (ABOUT 0.001%)
BROMIDE	%	<= 0.01	<0.01
CALCIUM	%	<= 0.002	<0.002
CHLORATE & NITRATE	%	<= 0.003	<0.001
HEAVY METALS (as Pb)	ppm	<= 5	<5
IDENTIFICATION	PASS/FAIL	= PASS TEST	PASS TEST
INSOLUBLE MATTER	%	<= 0.005	<0.005
IODIDE	%	<= 0.002	<0.002
IRON (Fe)	ppm	<= 2	<1
MAGNESIUM	%	<= 0.001	<0.0005
PH 5% SOLUTION @ 25 DEG C		Inclusive Between 5.4 - 8.6	6.0
PHOSPHATE (PO4)	ppm	<= 5	<5
SODIUM (Na)	%	<= 0.005	<0.005
SULFATE (SO4)	%	<= 0.001	<0.001

Julian Burton

Julian Burton - Quality Control Manager – Fair Lawn

Note: The data listed is valid for all package sizes of this lot of this product, expressed as an extension of this catalog number listed above.
If there are any questions with this certificate, please call at (800) 227-6701.
*Based on suggested storage condition.

Certificate of Analysis

1 Reagent Lane
Fair Lawn, NJ 07410
201.796.7100 tel
201.796.1329 fax

Thermo Fisher Scientific's Quality System has been found to conform to Quality Management System Standard ISO9001:2015 by SAI Global Certificate Number CERT – 0120632

This is to certify that units of the lot number below were tested and found to comply with the specifications of the grade listed. Certain data have been supplied by third parties. Thermo Fisher Scientific expressly disclaims all warranties, expressed or implied, including the implied warranties of merchantability and fitness for a particular purpose. Products are for research use or further manufacturing. Not for direct administration to humans or animals. It is the responsibility of the final formulator and end user to determine suitability based upon the intended use of the end product. Products are tested to meet the analytical requirements of the noted grade. The following information is the actual analytical results obtained.

Catalog Number	41098	Quality Test / Release Date	10/27/2020
Lot Number	B0541750B		
Description	GLYCEROL, REAGENT ACS		
Country of Origin	United States	Suggested Retest Date	Oct/2025
Chemical Origin	Organic - Plant		
BSE/TSE Comment	No animal products are used as starting raw material ingredients, or used in processing, including lubricants, processing aids, or any other material that might migrate to the finished product.		
Comment	No animal products are used as starting raw material ingredients, or used in processing, including lubricants, processing aids, or any other material that might migrate to the finished product.		

N/A

Result Name	Units	Specifications	Test Value
APPEARANCE		REPORT	Clear Syrupy Liquid
ACROLEIN, GLUCOSE, NH4	PASS/FAIL	IN PASS TEST	PASS TEST
ASSAY	%	>= 99.5	99.8
CHLORINATED COMPOUNDS (AS Cl)	%	<= 0.003	<0.003
COLOR	APHA	<= 10	5
FATTY ACID ESTERS	%	<= 0.05	<0.005
HEAVY METALS (as Pb)	ppm	<= 2	<2
INFRARED SCAN	REPORT	IN CONFORMS TO REF	CONFORMS TO REF
NEUTRALITY	PASS/FAIL	IN PASS TEST	PASS TEST
RESIDUE AFTER IGNITION	%	<= 0.005	<0.001
SUBSTANCES DARKENED BY H2SO4	PASS/FAIL	IN PASS TEST	PASS TEST
SULFATE (SO4)	%	<= 0.001	<0.001
WATER (H2O)	%	<= 0.5	0.1

Residual Solvents	No Class 1 or 3 Residual Solvents are used in the processing of Glycerin. Class 2 Methanol is used as a reactant to manufacture Glycerin but is removed in subsequent manufacturing processes to typically below 1 ppm. This is well below the 3000 ppm recommended maximum concentration in drug products.

Julian Burton

Julian Burton - Quality Control Manager - Bridgewater

Note: The data listed is valid for all package sizes of this lot of this product, expressed as an extension of this catalog number listed above.
If there are any questions with this certificate, please call at (800) 227-6701.
*Based on suggested storage condition.

W2654 Received on 1/24/2020 by AP

ThermoFisher SCIENTIFIC

Certificate of Analysis

1 Reagent Lane
Fair Lawn, NJ 07410
201.796.7100 tel
201.796.1329 fax

Thermo Fisher Scientific's Quality System has been found to conform to Quality Management System Standard ISO9001:2015 by SAI Global Certificate Number CERT – 0120632

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Catalog Number	D16	Quality Test / Release Date	03/19/2019
Lot Number	186122A		
Description	DEXTROSE, ANHYDROUS, A.C.S.		
Country of Origin	United States	Suggested Retest Date	Mar/2022
Chemical Origin	Organic - Plant		
BSE/TSE Comment	No animal products are used as starting raw material ingredients, or used in processing, including lubricants, processing aids, or any other material that might migrate to the finished product.		
Chemical Comment			

N/A

Result Name	Units	Specifications	Test Value
APPEARANCE		REPORT	White, granular powder
TITRATABLE ACID	MEQ/G	<= 0.002	<0.002
STARCH		= PASS TEST	pass test
SPECIFIC ROTATION @ 25 C	DEGREES (+ OR -)	Inclusive Between +52.5 - +53.0	53.0
SULFATE & SULFITE	%	<= 0.005	<0.005
IRON (Fe)	ppm	<= 5	<5
CHLORIDE	%	<= 0.01	<0.01
IGNITION RESIDUE	%	<= 0.02	<0.02
IDENTIFICATION	PASS/FAIL	= PASS TEST	pass test
HEAVY METALS (as Pb)	ppm	<= 5	<5
LOSS ON DRYING @ 105 C	%	<= 0.2	<0.2
INSOLUBLE MATTER	%	<= 0.005	0.002

Teresa Bailey-Wyche

Quality Assurance Specialist - Certificate of Analysis Fair Lawn

Note: The data listed is valid for all package sizes of this lot of this product, expressed as an extension of this catalog number listed above.
If there are any questions with this certificate, please call at (800) 227-6701.
*Based on suggested storage condition.

W2652 Received on 01/24/2020 by AP

ThermoFisher SCIENTIFIC

Certificate of Analysis

1 Reagent Lane
Fair Lawn, NJ 07410
201.796.7100 tel
201.796.1329 fax

Thermo Fisher Scientific's Quality System has been found to conform to Quality Management System Standard ISO9001:2015 by SAI Global Certificate Number CERT – 0120632

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Catalog Number	P188	Quality Test / Release Date	08/12/2019
Lot Number	194664		
Description	POTASSIUM DICHROMATE, A.C.S.		
Country of Origin	United States	Suggested Retest Date	Aug/2024
Chemical Origin	Inorganic-non animal		
BSE/TSE Comment	No animal products are used as starting raw material ingredients, or used in processing, including lubricants, processing aids, or any other material that might migrate to the finished product.		
Chemical Comment			

N/A			
Result Name	Units	Specifications	Test Value
APPEARANCE		REPORT	Fine, orange-red crystals
ASSAY	%	>= 99	99.2
CALCIUM	%	<= 0.003	<0.003
CHLORIDE	%	<= 0.001	<0.001
LOSS ON DRYING @ 105 C	%	<= 0.05	<0.05
SULFATE (SO4)	%	<= 0.005	<0.005
INSOLUBLE MATTER	%	<= 0.005	0.003
IRON (Fe)	%	<= 0.001	<0.001
SODIUM (Na)	%	<= 0.02	<0.02
IDENTIFICATION	PASS/FAIL	= PASS TEST	PASS TEST

Teresa Bailey-Wyche

Quality Assurance Specialist - Certificate of Analysis Fair Lawn

Note: The data listed is valid for all package sizes of this lot of this product, expressed as an extension of this catalog number listed above.
If there are any questions with this certificate, please call at (800) 227-6701.
*Based on suggested storage condition.

W2784 Received on 12/16/2020 by AP

ThermoFisher SCIENTIFIC

Certificate of Analysis

1 Reagent Lane
Fair Lawn, NJ 07410
201.796.7100 tel
201.796.1329 fax

Thermo Fisher Scientific's Quality System has been found to conform to Quality Management System Standard ISO9001:2015 by SAI Global Certificate Number CERT – 0120632

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Catalog Number	P243	Quality Test / Release Date	06/19/2020
Lot Number	201089		
Description	POTASSIUM HYDROGEN PHTHALATE,ACIDIMETRIC STANDARD, A.C.S.		
Country of Origin	Spain	Suggested Retest Date	Jun/2025
Chemical Origin	Organic - non animal		
BSE/TSE Comment	No animal products are used as starting raw material ingredients, or used in processing, including lubricants, processing aids, or any other material that might migrate to the finished product.		

N/A			
Result Name	Units	Specifications	Test Value
APPEARANCE		REPORT	WHITE CRYSTALS
ASSAY POTASSIUM HYDROGEN PHTHALATE	%	Inclusive Between 99.95 - 100.05	100.03
CHLORINE COMPOUNDS	%	<= 0.003	<0.003
HEAVY METALS (as Pb)	ppm	<= 5	<5
IDENTIFICATION	PASS/FAIL	= PASS TEST	PASS TEST
INSOLUBLE MATTER	%	<= 0.005	<0.005
IRON (Fe)	ppm	<= 5	<5
PH OF 0.05M SOLUTION		Inclusive Between 4.00 - 4.02	4.00
SODIUM (Na)	%	<= 0.005	<0.005
SULFUR COMPOUNDS	%	<= 0.002	<0.002%
TRACEABLE TO NIST	SOD CARBONATE	= LOT 351a	351a
TRACEABLE TO NIST KHP STD	POT. ACID PHTHALATE	= LOT 84L	84L

Julian Burton

Julian Burton - Quality Control Manager – Fair Lawn

Note: The data listed is valid for all package sizes of this lot of this product, expressed as an extension of this catalog number listed above.
If there are any questions with this certificate, please call at (800) 227-6701.
*Based on suggested storage condition.

Allan Chemical Corporation

235 Margaret King Avenue
Ringwood NJ 07456

Telephone: 973-962-4014
Fax: 973-962-6820
E-Mail: allanchem@allanchem.com

W2697

ATTN: ALLAN CHEMICAL - QC DEPT.
DATE: September 20, 2021
P.O. #: 14410
PART #: N/A
LOT #: CPECG2635

CERTIFICATE OF ANALYSIS

CUPRIC SULFATE CRYSTAL – ACS GRADE

ASSAY:	102.0 %
LEAD:	< 0.0001 %
NITROGEN COMPOUNDS:	< 0.001 %
ZINC:	< 0.0001 %
INSOLUBLE MATTER:	< 0.001 %
CHLORIDE:	< 0.001 %
CHROMIUM:	< 0.00002 %
IRON:	0.0003 %
NICKEL:	< 0.0001 %
CADMIUM:	< 0.0001 %
MANGANESE:	< 0.0001 %
CALCIUM:	< 0.005 %
POTASSIUM:	< 0.001 %
SODIUM:	< 0.001 %

PRODUCTOS QUIMICOS MONTERREY, S.A. DE C.V.

MIRADOR 201, COL. MIRADOR
MONTERREY, N.L. MEXICO
CP 64070
TEL +52 81 13 52 57 57
www.pqm.com.mx

CERTIFICATE OF ANALYSIS

PRODUCT :	SODIUM SULFATE CRYSTALS ANHYDROUS		
QUALITY :	ACS (CODE RMB3375)	FORMULA :	Na_2SO_4
SPECIFICATION NUMBER :	6399	RELEASE DATE:	ABR/21/2023
LOT NUMBER :	313201		

TEST	SPECIFICATIONS	LOT VALUES
Assay (Na_2SO_4)	Min. 99.0%	99.7 %
pH of a 5% solution at 25°C	5.2 - 9.2	6.1
Insoluble matter	Max. 0.01%	0.005 %
Loss on ignition	Max. 0.5%	0.1 %
Chloride (Cl)	Max. 0.001%	<0.001 %
Nitrogen compounds (as N)	Max. 5 ppm	<5 ppm
Phosphate (PO_4)	Max. 0.001%	<0.001 %
Heavy metals (as Pb)	Max. 5 ppm	<5 ppm
Iron (Fe)	Max. 0.001%	<0.001 %
Calcium (Ca)	Max. 0.01%	0.002 %
Magnesium (Mg)	Max. 0.005%	0.001 %
Potassium (K)	Max. 0.008%	0.003 %
Extraction-concentration suitability	Passes test	Passes test
Appearance	Passes test	Passes test
Identification	Passes test	Passes test
Solubility and foreing matter	Passes test	Passes test
Retained on US Standard No. 10 sieve	Max. 1%	0.1 %
Retained on US Standard No. 60 sieve	Min. 94%	97.3 %
Through US Standard No. 60 sieve	Max. 5%	2.5 %
Through US Standard No. 100 sieve	Max. 10%	0.1 %

COMMENTS

QC: PhC Irma Belmares

If you need further details, please call our factory or contact our local distributor.

RG-02-01, Ed. 3

Recd. by RP on 7/24/23 E3551

VWR®

Certificate of Analysis

Sodium Hydroxide (Pellets)

Material: 0583
Grade: ACS GRADE
Batch Number: 23B1556310

Chemical Formula: NaOH
Molecular Weight: 40
CAS #: 1310-73-2
Appearance:

Pellets

Manufacture Date: 12/14/2022
Expiration Date: 12/31/2025

Storage: Room Temperature

TEST	SPECIFICATION	ANALYSIS	DISPOSITION
Calcium	<= 0.005 %	<0.005 %	PASS
Chloride	<= 0.005 %	0.002 %	PASS
Heavy Metals	<= 0.002 %	<0.002 %	PASS
Iron	<= 0.001 %	<0.001 %	PASS
Magnesium	<= 0.002 %	<0.002 %	PASS
Mercury	<= 0.1 ppm	<0.1 ppm	PASS
Nickel	<= 0.001 %	<0.001 %	PASS
Nitrogen Compounds	<= 0.001 %	<0.001 %	PASS
Phosphate	<= 0.001 %	<0.001 %	PASS
Potassium	<= 0.02 %	<0.02 %	PASS
Purity	>= 97.0 %	99.2 %	PASS
Sodium Carbonate	<= 1.0 %	0.5 %	PASS
Sulfate	<= 0.003 %	<0.003 %	PASS

Internal ID #: 710

Signature

We certify that this batch conforms to the specifications listed.

This document has been electronically produced and is valid without a signature.

Leona Edwardson, Quality Control Sr. Manager - Solon
VWR Chemicals, LLC.
28600 Fountain Parkway, Solon OH 44139 USA

Additional Information

Analysis may have been rounded to significant digits in specification limits.

Product meets analytical specifications of the grades listed.

E 3657	E 3659
E 3654	E 3660

Acetone
BAKER RESI-ANALYZED® Reagent
For Organic Residue Analysis

avantor™ | J.T.Baker®

Material No.: 9254-03
Batch No.: 23H1462005
Manufactured Date: 2023-07-26
Expiration Date: 2026-07-25
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay ($(CH_3)_2CO$) (by GC, corrected for water)	≥ 99.4 %	99.7 %
Color (APHA)	≤ 10	5
Residue after Evaporation	≤ 1.0 ppm	0.3 ppm
Substances Reducing Permanganate	Passes Test	Passes Test
Titrable Acid (µeq/g)	≤ 0.3	0.1
Titrable Base (µeq/g)	≤ 0.6	< 0.1
Water (H_2O)	≤ 0.5 %	0.3 %
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	≤ 5	< 1
ECD Sensitive Impurities (as Heptachlor Epoxide) Single Peak (pg/mL)	≤ 10	1

For Laboratory,Research,or Manufacturing Use
MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

Recd. by RP on 8/13/24

E 3788

Ken Koehnlein
Sr. Manager, Quality Assurance

W3011 W3012 W3013 W3014 W3015

For ICP-MS use: dilute the ICV1 concentrate 50-fold with 1% (v/v) nitric acid; pipet 2 mL of the concentrate into a 100 mL volumetric flask and dilute to volume with 1% (v/v) nitric acid.

ICV5-0415 For the cold vapor analysis of mercury by AA: dilute the ICV5 concentrate 100-fold with 2% (v/v) nitric acid; pipet 1 mL of the concentrate into a 100 mL volumetric flask and dilute to volume with 2% (v/v) nitric acid. The ICV5 concentrate is prepared in 0.05% (w/v) $K_2Cr_2O_7$ and 5% (v/v) nitric acid.

ICV6-0400 For the analysis of cyanide: dilute the ICV6 concentrate 100-fold with Type II water; pipet 1 mL of the concentrate into a 100 mL volumetric flask and dilute to volume with Type II water. Distill this solution along with the samples before analysis. The cyanide concentrate is prepared from $K_3Fe(CN)_6$, Type II water, and 0.1 % sodium hydroxide, and will decompose rapidly if exposed to light.

NOTE: USE TYPE II WATER AND HIGH-PURITY ACIDS FOR ALL DILUTIONS.

(D) *CERTIFIED CONCENTRATIONS OF QATS ICV1, ICV5, AND ICV6 SOLUTIONS*

ICV1-1014		
Element	**Concentration (µg/L) (after 10-fold dilution)**	**Concentration (µg/L) (after 50-fold dilution)**
Al	2520	504
Sb	1010	202
As	997	199
Ba	518	104
Be	514	103
Cd	514	103
Ca	10000	2000
Cr	517	103
Co	521	104
Cu	505	101
Fe	10100	2020
Pb	1030	206
Mg	5990	1198
Mn	524	105
Ni	525	105
K	9940	1988
Se	1030	206
Ag	252	50
Na	10100	2020
Tl	1040	208
V	504	101
Zn	1010	202

ICV5-0415		ICV6-0400	
Element	**Concentration (µg/L) (after 100-fold dilution)**	**Analyte**	**Concentration (µg/L) (after 100-fold dilution)**
Hg	4.0	**CN^-**	99

Sulfuric Acid
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis
Low Selenium

M3033-38-33-40
no

avantor™ | J.T.Baker®

Material No.: 9673-33
Batch No.: 0000250349
Manufactured Date: 2019/12/17
Retest Date: 2024/12/15
Revision No: 1

Certificate of Analysis

Test	Specification	Result
ACS - Assay (H_2SO_4)	95.0 - 98.0 %	96.5
Appearance	Passes Test	PT
ACS - Color (APHA)	<= 10	5
ACS - Residue after Ignition	<= 3 ppm	1
ACS - Substances Reducing Permanganate (as SO_2)	<= 2 ppm	< 2
Ammonium (NH_4)	<= 1 ppm	< 1
Chloride (Cl)	<= 0.1 ppm	< 0.1
Nitrate (NO_3)	<= 0.2 ppm	< 0.1
Phosphate (PO_4)	<= 0.5 ppm	< 0.1
Trace Impurities - Aluminum (Al)	<= 30.0 ppb	0.2
Arsenic and Antimony (as As)	<= 4 ppb	< 2
Trace Impurities - Barium (Ba)	<= 10.0 ppb	< 1.0
Trace Impurities - Beryllium (Be)	<= 10.0 ppb	< 1.0
Trace Impurities - Bismuth (Bi)	<= 10.0 ppb	< 1.0
Trace Impurities - Boron (B)	<= 10.0 ppb	< 5.0
Trace Impurities - Cadmium (Cd)	<= 2.0 ppb	< 0.3
Trace Impurities - Calcium (Ca)	<= 50.0 ppb	2.9
Trace Impurities - Chromium (Cr)	<= 6.0 ppb	< 0.4
Trace Impurities - Cobalt (Co)	<= 0.5 ppb	< 0.3
Trace Impurities - Copper (Cu)	<= 1.0 ppb	< 0.1
Trace Impurities - Gallium (Ga)	<= 10.0 ppb	< 1.0
Trace Impurities - Germanium (Ge)	<= 10.0 ppb	< 10.0
Trace Impurities - Gold (Au)	<= 10.0 ppb	< 0.2
Heavy Metals (as Pb)	<= 500 ppb	< 100

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700
Avantor Performance Materials, LLC
100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone: 610.386.1700

Material No.: 9673-33
Batch No.: 0000250349

Test	Specification	Result
Trace Impurities - Iron (Fe)	<= 50.0 ppb	4.1
Trace Impurities - Lead (Pb)	<= 0.5 ppb	< 0.5
Trace Impurities - Lithium (Li)	<= 10.0 ppb	< 1.0
Trace Impurities - Magnesium (Mg)	<= 7.0 ppb	0.4
Trace Impurities - Manganese (Mn)	<= 1.0 ppb	< 0.4
Trace Impurities - Mercury (Hg)	<= 0.5 ppb	< 0.1
Trace Impurities - Molybdenum (Mo)	<= 10.0 ppb	< 5.0
Trace Impurities - Nickel (Ni)	<= 2.0 ppb	< 0.3
Trace Impurities - Niobium (Nb)	<= 10.0 ppb	< 1.0
Trace Impurities - Potassium (K)	<= 500.0 ppb	< 2.0
Trace Impurities - Selenium (Se)	<= 50.0 ppb	22.9
Trace Impurities - Silicon (Si)	<= 100.0 ppb	< 10.0
Trace Impurities - Silver (Ag)	<= 1.0 ppb	< 0.3
Trace Impurities - Sodium (Na)	<= 500.0 ppb	2.7
Trace Impurities - Strontium (Sr)	<= 5.0 ppb	< 0.2
Trace Impurities - Tantalum (Ta)	<= 10.0 ppb	< 5.0
Trace Impurities - Thallium (Tl)	<= 20.0 ppb	< 5.0
Trace Impurities - Tin (Sn)	<= 5.0 ppb	< 0.8
Trace Impurities - Titanium (Ti)	<= 10.0 ppb	< 1.0
Trace Impurities - Vanadium (V)	<= 10.0 ppb	< 1.0
Trace Impurities - Zinc (Zn)	<= 5.0 ppb	0.3
Trace Impurities - Zirconium (Zr)	<= 10.0 ppb	< 1.0

For Laboratory, Research or Manufacturing Use

Country of Origin: US
Packaging Site: Phillipsburg Mfg Ctr & DC

James T Ethier
Jamie Ethier
Vice President Global Quality

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700
Avantor Performance Materials, LLC
100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone: 610.386.1700

Hydrochloric Acid, 36.5-38.0%
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis

avantor™ | J.T.Baker®

Material No.: 9530-33
Batch No.: 0000281827
Manufactured Date: 2021/03/30
Retest Date: 2026/03/29
Revision No: 1

Certificate of Analysis

Test	Specification	Result
ACS - Assay (as HCl) (by acid-base titrn)	36.5 - 38.0 %	37.6
ACS - Color (APHA)	<= 10	5
ACS - Residue after Ignition	<= 3 ppm	1
ACS - Specific Gravity at 60°/60°F	1.185 - 1.192	1.189
ACS - Bromide (Br)	<= 0.005 %	< 0.005
ACS - Extractable Organic Substances	<= 5 ppm	< 1
ACS - Free Chlorine (as Cl_2)	<= 0.5 ppm	< 0.5
Phosphate (PO_4)	<= 0.05 ppm	< 0.03
Sulfate (SO_4)	<= 0.5 ppm	< 0.3
Sulfite (SO_3)	<= 0.8 ppm	0.3
Ammonium (NH_4)	<= 3 ppm	< 1
Trace Impurities - Arsenic (As)	<= 0.010 ppm	< 0.003
Trace Impurities - Aluminum (Al)	<= 10.0 ppb	0.5
Arsenic and Antimony (as As)	<= 5 ppb	< 3
Trace Impurities - Barium (Ba)	<= 1.0 ppb	< 0.2
Trace Impurities - Beryllium (Be)	<= 1.0 ppb	< 0.2
Trace Impurities - Bismuth (Bi)	<= 10.0 ppb	< 1.0
Trace Impurities - Boron (B)	<= 20.0 ppb	< 5.0
Trace Impurities - Cadmium (Cd)	<= 1.0 ppb	< 0.3
Trace Impurities - Calcium (Ca)	<= 50.0 ppb	15.0
Trace Impurities - Chromium (Cr)	<= 1.0 ppb	< 0.4
Trace Impurities - Cobalt (Co)	<= 1.0 ppb	< 0.3
Trace Impurities - Copper (Cu)	<= 1.0 ppb	< 0.1
Trace Impurities - Gallium (Ga)	<= 1.0 ppb	< 0.2

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700
Avantor Performance Materials, LLC
100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone: 610.386.1700

Test	Specification	Result
Trace Impurities - Germanium (Ge)	<= 3.0 ppb	< 2.0
Trace Impurities - Gold (Au)	<= 4.0 ppb	3.0
Heavy Metals (as Pb)	<= 100 ppb	< 50
Trace Impurities - Iron (Fe)	<= 15.0 ppb	1.0
Trace Impurities - Lead (Pb)	<= 1.0 ppb	< 0.5
Trace Impurities - Lithium (Li)	<= 1.0 ppb	< 0.2
Trace Impurities - Magnesium (Mg)	<= 10.0 ppb	< 0.4
Trace Impurities - Manganese (Mn)	<= 1.0 ppb	< 0.4
Trace Impurities - Mercury (Hg)	<= 0.5 ppb	0.2
Trace Impurities - Molybdenum (Mo)	<= 10.0 ppb	< 5.0
Trace Impurities - Nickel (Ni)	<= 4.0 ppb	< 0.3
Trace Impurities - Niobium (Nb)	<= 1.0 ppb	< 0.2
Trace Impurities - Potassium (K)	<= 9.0 ppb	< 2.0
Trace Impurities - Selenium (Se), For Information Only	ppb	1.0
Trace Impurities - Silicon (Si)	<= 100.0 ppb	18.0
Trace Impurities - Silver (Ag)	<= 1.0 ppb	< 0.3
Trace Impurities - Sodium (Na)	<= 100.0 ppb	< 5.0
Trace Impurities - Strontium (Sr)	<= 1.0 ppb	< 0.2
Trace Impurities - Tantalum (Ta)	<= 1.0 ppb	< 0.9
Trace Impurities - Thallium (Tl)	<= 5.0 ppb	< 2.0
Trace Impurities - Tin (Sn)	<= 5.0 ppb	< 0.8
Trace Impurities - Titanium (Ti)	<= 1.0 ppb	< 0.2
Trace Impurities - Vanadium (V)	<= 1.0 ppb	< 0.2
Trace Impurities - Zinc (Zn)	<= 5.0 ppb	0.4
Trace Impurities - Zirconium (Zr)	<= 1.0 ppb	< 0.1

For Laboratory, Research or Manufacturing Use
Product Information (not specifications):
Appearance (clear, fuming liquid)
Meets ACS Specifications

Country of Origin: US
Packaging Site: Phillipsburg Mfg Ctr & DC

James Ethier
Jamie Ethier
Vice President Global Quality

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700
Avantor Performance Materials, LLC
100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone: 610.386.1700

Sulfuric Acid
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis
Low Selenium

M5210 - M5215
MB

avantor™ | J.T.Baker®

Material No.: 9673-33
Batch No.: 22D0862014
Manufactured Date: 2022-02-23
Retest Date: 2027-02-22
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
ACS - Assay (H_2SO_4)	95.0 - 98.0 %	96.5 %
Appearance	Passes Test	Passes Test
ACS - Color (APHA)	≤ 10	5
ACS - Residue after Ignition	≤ 3 ppm	< 1 ppm
ACS - Substances Reducing Permanganate (as SO2)	≤ 2 ppm	< 2 ppm
Ammonium (NH_4)	≤ 1 ppm	< 1 ppm
Chloride (Cl)	≤ 0.1 ppm	< 0.1 ppm
Nitrate (NO_3)	≤ 0.2 ppm	< 0.1 ppm
Phosphate (PO_4)	≤ 0.5 ppm	< 0.1 ppm
Trace Impurities - Aluminum (Al)	≤ 30.0 ppb	1.7 ppb
Arsenic and Antimony (as As)	≤ 4.0 ppb	< 2.0 ppb
Trace Impurities - Boron (B)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities - Cadmium (Cd)	≤ 2.0 ppb	< 0.3 ppb
Trace Impurities - Chromium (Cr)	≤ 6.0 ppb	< 0.4 ppb
Trace Impurities - Cobalt (Co)	≤ 0.5 ppb	< 0.3 ppb
Trace Impurities - Copper (Cu)	≤ 1.0 ppb	< 0.1 ppb
Trace Impurities - Gold (Au)	≤ 10.0 ppb	< 0.2 ppb
Heavy Metals (as Pb)	≤ 500.0 ppb	< 100.0 ppb
Trace Impurities - Iron (Fe)	≤ 50.0 ppb	2.0 ppb
Trace Impurities - Lead (Pb)	≤ 0.5 ppb	< 0.5 ppb
Trace Impurities - Magnesium (Mg)	≤ 7.0 ppb	0.6 ppb
Trace Impurities - Manganese (Mn)	≤ 1.0 ppb	< 0.4 ppb
Trace Impurities - Mercury (Hg)	≤ 0.5 ppb	< 0.1 ppb
Trace Impurities - Nickel (Ni)	≤ 2.0 ppb	< 0.3 ppb
Trace Impurities - Potassium (K)	≤ 500.0 ppb	< 2.0 ppb
Trace Impurities - Selenium (Se)	≤ 50.0 ppb	12.1 ppb
Trace Impurities - Silicon (Si)	≤ 100.0 ppb	4.4 ppb
Trace Impurities - Silver (Ag)	≤ 1.0 ppb	< 0.3 ppb

>>> Continued on page 2 >>>

Sulfuric Acid
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis
Low Selenium

avantor™ | J.T.Baker®

Material No.: 9673-33
Batch No.: 22D0862014

Test	Specification	Result
Trace Impurities - Sodium (Na)	≤ 500.0 ppb	6.2 ppb
Trace Impurities - Strontium (Sr)	≤ 5.0 ppb	< 0.2 ppb
Trace Impurities - Tin (Sn)	≤ 5.0 ppb	< 0.8 ppb
Trace Impurities - Zinc (Zn)	≤ 5.0 ppb	0.6 ppb

For Laboratory,Research,or Manufacturing Use

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

James T Ethier

Jamie Ethier
Vice President Global Quality

Sodium Chloride, Crystal
BAKER ANALYZED® A.C.S. Reagent

M5493 - M5308
Rad on 4/14/23
JMG

avantor™ | J.T.Baker®

Material No.: 3624-01
Batch No.: 0000281938
Manufactured Date: 2021-06-07
Retest Date: 2026-06-07
Revision No.: 2

Certificate of Analysis

Test	Specification	Result
Assay (NaCl) (by Ag titrn)	≥ 99.0 %	100.0 %
pH of 5% Solution at 25°C	5.0 - 9.0	6.3
Insoluble Matter	≤ 0.005 %	0.003 %
Iodide (I)	≤ 0.002 %	< 0.002 %
Bromide (Br)	≤ 0.01 %	< 0.01 %
Chlorate and Nitrate (as NO_3)	≤ 0.003 %	< 0.001 %
ACS - Phosphate (PO_4)	≤ 5 ppm	< 5 ppm
Sulfate (SO_4)	≤ 0.004 %	< 0.004 %
Barium (Ba)	Passes Test	Passes Test
ACS - Heavy Metals (as Pb)	≤ 5 ppm	< 5 ppm
Iron (Fe)	≤ 2 ppm	< 1 ppm
Calcium (Ca)	≤ 0.002 %	< 0.001 %
Magnesium (Mg)	≤ 0.001 %	< 0.001 %
Potassium (K)	≤ 0.005 %	0.001 %

For Laboratory,Research,or Manufacturing Use
Meets Reagent Specifications for testing USP/NF monographs
Country of Origin: USA
Packaging Site: Paris Mfg Ctr & DC

James T Ethier
Jamie Ethier
Vice President Global Quality

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700
Avantor Performance Materials, LLC
100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone 610.386.1700

Sulfuric Acid
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis
Low Selenium

A15873- 7 8
A-3

avantor™ | J.T.Baker®

Material No.: 9673-33
Batch No.: 23D2462010
Manufactured Date: 2023-03-22
Retest Date: 2028-03-20
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
ACS – Assay (H_2SO_4)	95.0 – 98.0 %	96.1 %
Appearance	Passes Test	Passes Test
ACS – Color (APHA)	≤ 10	5
ACS – Residue after Ignition	≤ 3 ppm	< 1 ppm
ACS – Substances Reducing Permanganate (as SO2)	≤ 2 ppm	< 2 ppm
Ammonium (NH_4)	≤ 1 ppm	1 ppm
Chloride (Cl)	≤ 0.1 ppm	< 0.1 ppm
Nitrate (NO_3)	≤ 0.2 ppm	< 0.1 ppm
Phosphate (PO_4)	≤ 0.5 ppm	< 0.1 ppm
Trace Impurities – Aluminum (Al)	≤ 30.0 ppb	< 5.0 ppb
Arsenic and Antimony (as As)	≤ 4.0 ppb	< 2.0 ppb
Trace Impurities – Boron (B)	≤ 10.0 ppb	8.5 ppb
Trace Impurities – Cadmium (Cd)	≤ 2.0 ppb	< 0.3 ppb
Trace Impurities – Chromium (Cr)	≤ 6.0 ppb	< 0.4 ppb
Trace Impurities – Cobalt (Co)	≤ 0.5 ppb	< 0.3 ppb
Trace Impurities – Copper (Cu)	≤ 1.0 ppb	< 0.1 ppb
Trace Impurities – Gold (Au)	≤ 10.0 ppb	0.5 ppb
Heavy Metals (as Pb)	≤ 500.0 ppb	< 100.0 ppb
Trace Impurities – Iron (Fe)	≤ 50.0 ppb	1.3 ppb
Trace Impurities – Lead (Pb)	≤ 0.5 ppb	< 0.5 ppb
Trace Impurities – Magnesium (Mg)	≤ 7.0 ppb	0.8 ppb
Trace Impurities – Manganese (Mn)	≤ 1.0 ppb	< 0.4 ppb
Trace Impurities – Mercury (Hg)	≤ 0.5 ppb	< 0.1 ppb
Trace Impurities – Nickel (Ni)	≤ 2.0 ppb	0.3 ppb
Trace Impurities – Potassium (K)	≤ 500.0 ppb	< 2.0 ppb
Trace Impurities – Selenium (Se)	≤ 50.0 ppb	< 0.1 ppb
Trace Impurities – Silicon (Si)	≤ 100.0 ppb	31.5 ppb
Trace Impurities – Silver (Ag)	≤ 1.0 ppb	< 0.3 ppb

>>> Continued on page 2 >>>

Sulfuric Acid
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis
Low Selenium

avantor™ | J.T.Baker®

Material No.: 9673-33
Batch No.: 23D2462010

Test	Specification	Result
Trace Impurities - Sodium (Na)	≤ 500.0 ppb	5.4 ppb
Trace Impurities - Strontium (Sr)	≤ 5.0 ppb	< 0.2 ppb
Trace Impurities - Tin (Sn)	≤ 5.0 ppb	< 0.8 ppb
Trace Impurities - Zinc (Zn)	≤ 5.0 ppb	0.4 ppb

For Laboratory,Research,or Manufacturing Use

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

James T Ethier
Jamie Ethier
Vice President Global Quality

Sodium Chloride, Crystal
BAKER ANALYZED® A.C.S. Reagent

MT884
MB

avantor™ | J.T.Baker®

Material No.: 3624-01
Batch No.: 0000281938
Manufactured Date: 2021-06-07
Retest Date: 2026-06-07
Revision No.: 1

Certificate of Analysis

Test	Specification	Result
Assay (NaCl) (by Ag titrn)	≥ 99.0 %	100.0 %
pH of 5% Solution at 25°C	5.0 - 9.0	6.3
Insoluble Matter	≤ 0.005 %	0.003 %
Iodide (I)	≤ 0.002 %	< 0.002 %
Bromide (Br)	≤ 0.01 %	< 0.01 %
Chlorate and Nitrate (as NO_3)	≤ 0.003 %	< 0.001 %
ACS - Phosphate (PO_4)	≤ 5 ppm	< 5 ppm
Sulfate (SO_4)	≤ 0.004 %	< 0.004 %
Barium (Ba)	Passes Test	Passes Test
ACS - Heavy Metals (as Pb)	≤ 5 ppm	< 5 ppm
Iron (Fe)	≤ 2 ppm	< 1 ppm
Calcium (Ca)	≤ 0.002 %	< 0.001 %
Magnesium (Mg)	≤ 0.001 %	< 0.001 %
Potassium (K)	≤ 0.005 %	0.001 %

For Laboratory,Research,or Manufacturing Use
Meets Reagent Specifications for testing USP/NF monographs
Country of Origin: USA
Packaging Site: Paris Mfg Ctr & DC

James T Ethier

Jamie Ethier
Vice President Global Quality

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700

Avantor Performance Materials, LLC
100 Mansford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone 610.386.1700

Hydrochloric Acid, 36.5-38.0%
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis

avantor™ | J.T.Baker®

MS943 MS944
MS945 MS946

Material No.: 9530-33
Batch No.: 22G2862015
Manufactured Date: 2022-06-15
Retest Date: 2027-06-14
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
ACS – Assay (as HCl) (by acid-base titrn)	36.5 – 38.0 %	37.9 %
ACS – Color (APHA)	≤ 10	5
ACS – Residue after Ignition	≤ 3 ppm	< 1 ppm
ACS – Specific Gravity at 60°/60°F	1.185 – 1.192	1.191
ACS – Bromide (Br)	≤ 0.005 %	< 0.005 %
ACS – Extractable Organic Substances	≤ 5 ppm	< 1 ppm
ACS – Free Chlorine (as Cl_2)	≤ 0.5 ppm	< 0.5 ppm
Phosphate (PO_4)	≤ 0.05 ppm	< 0.03 ppm
Sulfate (SO_4)	≤ 0.5 ppm	< 0.3 ppm
Sulfite (SO_3)	≤ 0.8 ppm	0.3 ppm
Ammonium (NH_4)	≤ 3 ppm	< 1 ppm
Trace Impurities – Arsenic (As)	≤ 0.010 ppm	< 0.003 ppm
Trace Impurities – Aluminum (Al)	≤ 10.0 ppb	1.3 ppb
Arsenic and Antimony (as As)	≤ 5.0 ppb	< 3.0 ppb
Trace Impurities – Barium (Ba)	≤ 1.0 ppb	0.2 ppb
Trace Impurities – Beryllium (Be)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities – Bismuth (Bi)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Boron (B)	≤ 20.0 ppb	< 5.0 ppb
Trace Impurities – Cadmium (Cd)	≤ 1.0 ppb	< 0.3 ppb
Trace Impurities – Calcium (Ca)	≤ 50.0 ppb	163.0 ppb
Trace Impurities – Chromium (Cr)	≤ 1.0 ppb	0.7 ppb
Trace Impurities – Cobalt (Co)	≤ 1.0 ppb	< 0.3 ppb
Trace Impurities – Copper (Cu)	≤ 1.0 ppb	< 0.1 ppb
Trace Impurities – Gallium (Ga)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities – Germanium (Ge)	≤ 3.0 ppb	< 2.0 ppb
Trace Impurities – Gold (Au)	≤ 4.0 ppb	0.6 ppb
Heavy Metals (as Pb)	≤ 100 ppb	< 50 ppb
Trace Impurities – Iron (Fe)	≤ 15 ppb	6 ppb

>>> Continued on page 2 >>>

Hydrochloric Acid, 36.5-38.0%
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis

avantor™ | J.T.Baker®

Material No.: 9530-33
Batch No.: 22G2862015

Test	Specification	Result
Trace Impurities – Lead (Pb)	≤ 1.0 ppb	< 0.5 ppb
Trace Impurities – Lithium (Li)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities – Magnesium (Mg)	≤ 10.0 ppb	2.9 ppb
Trace Impurities – Manganese (Mn)	≤ 1.0 ppb	< 0.4 ppb
Trace Impurities – Mercury (Hg)	≤ 0.5 ppb	0.1 ppb
Trace Impurities – Molybdenum (Mo)	≤ 10.0 ppb	< 3.0 ppb
Trace Impurities – Nickel (Ni)	≤ 4.0 ppb	< 0.3 ppb
Trace Impurities – Niobium (Nb)	≤ 1.0 ppb	0.8 ppb
Trace Impurities – Potassium (K)	≤ 9.0 ppb	< 2.0 ppb
Trace Impurities – Selenium (Se), For Information Only		< 1.0 ppb
Trace Impurities – Silicon (Si)	≤ 100.0 ppb	< 10.0 ppb
Trace Impurities – Silver (Ag)	≤ 1.0 ppb	0.5 ppb
Trace Impurities – Sodium (Na)	≤ 100.0 ppb	2.3 ppb
Trace Impurities – Strontium (Sr)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities – Tantalum (Ta)	≤ 1.0 ppb	1.6 ppb
Trace Impurities – Thallium (Tl)	≤ 5.0 ppb	< 2.0 ppb
Trace Impurities – Tin (Sn)	≤ 5.0 ppb	4.0 ppb
Trace Impurities – Titanium (Ti)	≤ 1.0 ppb	1.5 ppb
Trace Impurities – Vanadium (V)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities – Zinc (Zn)	≤ 5.0 ppb	0.8 ppb
Trace Impurities – Zirconium (Zr)	≤ 1.0 ppb	0.3 ppb

>>> Continued on page 3 >>>

Hydrochloric Acid, 36.5–38.0%
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis

avantor™ | J.T.Baker®

Material No.: 9530-33
Batch No.: 22G2862015

Test	Specification	Result

For Laboratory,Research,or Manufacturing Use
Product Information (not specifications):
Appearance (clear, fuming liquid)
Meets ACS Specifications
Storage Condition: Store below 25 °C.

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

James T Ethier

Jamie Ethier
Vice President Global Quality

Hydrochloric Acid, 36.5–38.0%
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis

avantor™ | J.T.Baker®

MS947 MS948 MS949
MS950 MS951 MS952

Material No.: 9530-33
Batch No.: 22G2862015
Manufactured Date: 2022-06-15
Retest Date: 2027-06-14
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
ACS – Assay (as HCl) (by acid-base titrn)	36.5 – 38.0 %	37.9 %
ACS – Color (APHA)	≤ 10	5
ACS – Residue after Ignition	≤ 3 ppm	< 1 ppm
ACS – Specific Gravity at 60°/60°F	1.185 – 1.192	1.191
ACS – Bromide (Br)	≤ 0.005 %	< 0.005 %
ACS – Extractable Organic Substances	≤ 5 ppm	< 1 ppm
ACS – Free Chlorine (as Cl_2)	≤ 0.5 ppm	< 0.5 ppm
Phosphate (PO_4)	≤ 0.05 ppm	< 0.03 ppm
Sulfate (SO_4)	≤ 0.5 ppm	< 0.3 ppm
Sulfite (SO_3)	≤ 0.8 ppm	0.3 ppm
Ammonium (NH_4)	≤ 3 ppm	< 1 ppm
Trace Impurities – Arsenic (As)	≤ 0.010 ppm	< 0.003 ppm
Trace Impurities – Aluminum (Al)	≤ 10.0 ppb	1.3 ppb
Arsenic and Antimony (as As)	≤ 5.0 ppb	< 3.0 ppb
Trace Impurities – Barium (Ba)	≤ 1.0 ppb	0.2 ppb
Trace Impurities – Beryllium (Be)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities – Bismuth (Bi)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Boron (B)	≤ 20.0 ppb	< 5.0 ppb
Trace Impurities – Cadmium (Cd)	≤ 1.0 ppb	< 0.3 ppb
Trace Impurities – Calcium (Ca)	≤ 50.0 ppb	163.0 ppb
Trace Impurities – Chromium (Cr)	≤ 1.0 ppb	0.7 ppb
Trace Impurities – Cobalt (Co)	≤ 1.0 ppb	< 0.3 ppb
Trace Impurities – Copper (Cu)	≤ 1.0 ppb	< 0.1 ppb
Trace Impurities – Gallium (Ga)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities – Germanium (Ge)	≤ 3.0 ppb	< 2.0 ppb
Trace Impurities – Gold (Au)	≤ 4.0 ppb	0.6 ppb
Heavy Metals (as Pb)	≤ 100 ppb	< 50 ppb
Trace Impurities – Iron (Fe)	≤ 15 ppb	6 ppb

>>> Continued on page 2 >>>

Hydrochloric Acid, 36.5-38.0%
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis

avantor™ | J.T.Baker®

Material No.: 9530-33
Batch No.: 22G2862015

Test	Specification	Result
Trace Impurities - Lead (Pb)	≤ 1.0 ppb	< 0.5 ppb
Trace Impurities - Lithium (Li)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Magnesium (Mg)	≤ 10.0 ppb	2.9 ppb
Trace Impurities - Manganese (Mn)	≤ 1.0 ppb	< 0.4 ppb
Trace Impurities - Mercury (Hg)	≤ 0.5 ppb	0.1 ppb
Trace Impurities - Molybdenum (Mo)	≤ 10.0 ppb	< 3.0 ppb
Trace Impurities - Nickel (Ni)	≤ 4.0 ppb	< 0.3 ppb
Trace Impurities - Niobium (Nb)	≤ 1.0 ppb	0.8 ppb
Trace Impurities - Potassium (K)	≤ 9.0 ppb	< 2.0 ppb
Trace Impurities - Selenium (Se), For Information Only		< 1.0 ppb
Trace Impurities - Silicon (Si)	≤ 100.0 ppb	< 10.0 ppb
Trace Impurities - Silver (Ag)	≤ 1.0 ppb	0.5 ppb
Trace Impurities - Sodium (Na)	≤ 100.0 ppb	2.3 ppb
Trace Impurities - Strontium (Sr)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Tantalum (Ta)	≤ 1.0 ppb	1.6 ppb
Trace Impurities - Thallium (Tl)	≤ 5.0 ppb	< 2.0 ppb
Trace Impurities - Tin (Sn)	≤ 5.0 ppb	4.0 ppb
Trace Impurities - Titanium (Ti)	≤ 1.0 ppb	1.5 ppb
Trace Impurities - Vanadium (V)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Zinc (Zn)	≤ 5.0 ppb	0.8 ppb
Trace Impurities - Zirconium (Zr)	≤ 1.0 ppb	0.3 ppb

>>> Continued on page 3 >>>

Hydrochloric Acid, 36.5-38.0%
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis

avantor™ | J.T.Baker®

Material No.: 9530-33
Batch No.: 22G2862015

Test	Specification	Result

For Laboratory,Research,or Manufacturing Use
Product Information (not specifications):
Appearance (clear, fuming liquid)
Meets ACS Specifications
Storage Condition: Store below 25 °C.

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

James T Ethier

Jamie Ethier
Vice President Global Quality

Nitric Acid 69%
CMOS

Recv date: 1.1.—08/01/2023

M6034, M6037
M6035, M6038,
M6036,

avantor™ | J.T.Baker®

Material No.: 9606-03
Batch No.: 24D1062002
Manufactured Date: 2024-03-26
Retest Date: 2029-03-25
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay (HNO_3)	69.0 – 70.0 %	69.7 %
Appearance	Passes Test	Passes Test
Color (APHA)	≤ 10	5
Residue after Ignition	≤ 2 ppm	1 ppm
Chloride (Cl)	≤ 0.08 ppm	< 0.03 ppm
Phosphate (PO_4)	≤ 0.10 ppm	< 0.03 ppm
Sulfate (SO_4)	≤ 0.2 ppm	< 0.2 ppm
Trace Impurities – Aluminum (Al)	≤ 40.0 ppb	< 1.0 ppb
Arsenic and Antimony (as As)	≤ 5.0 ppb	< 2.0 ppb
Trace Impurities – Barium (Ba)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Beryllium (Be)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Bismuth (Bi)	≤ 20.0 ppb	< 10.0 ppb
Trace Impurities – Boron (B)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities – Cadmium (Cd)	≤ 50 ppb	< 1 ppb
Trace Impurities – Calcium (Ca)	≤ 50.0 ppb	2.3 ppb
Trace Impurities – Chromium (Cr)	≤ 30.0 ppb	< 1.0 ppb
Trace Impurities – Cobalt (Co)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Copper (Cu)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Gallium (Ga)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Germanium (Ge)	≤ 20 ppb	< 10 ppb
Trace Impurities – Gold (Au)	≤ 20 ppb	< 5 ppb
Heavy Metals (as Pb)	≤ 100 ppb	100 ppb
Trace Impurities – Iron (Fe)	≤ 40.0 ppb	< 1.0 ppb
Trace Impurities – Lead (Pb)	≤ 20.0 ppb	< 10.0 ppb
Trace Impurities – Lithium (Li)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Magnesium (Mg)	≤ 20 ppb	< 1 ppb
Trace Impurities – Manganese (Mn)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Nickel (Ni)	≤ 20.0 ppb	< 5.0 ppb

>>> Continued on page 2 >>>

Nitric Acid 69%
CMOS

avantor™ | J.T.Baker®

Material No.: 9606-03
Batch No.: 24D1062002

Test	Specification	Result
Trace Impurities – Niobium (Nb)	≤ 50.0 ppb	< 1.0 ppb
Trace Impurities – Potassium (K)	≤ 50 ppb	16 ppb
Trace Impurities – Silicon (Si)	≤ 50 ppb	< 10 ppb
Trace Impurities – Silver (Ag)	≤ 20.0 ppb	< 1.0 ppb
Trace Impurities – Sodium (Na)	≤ 150.0 ppb	< 5.0 ppb
Trace Impurities – Strontium (Sr)	≤ 30.0 ppb	< 1.0 ppb
Trace Impurities – Tantalum (Ta)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities – Thallium (Tl)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities – Tin (Sn)	≤ 20.0 ppb	< 10.0 ppb
Trace Impurities – Titanium (Ti)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Vanadium (V)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Zinc (Zn)	≤ 20.0 ppb	< 1.0 ppb
Trace Impurities – Zirconium (Zr)	≤ 10.0 ppb	< 1.0 ppb
Particle Count – 0.5 µm and greater	≤ 60 par/ml	10 par/ml
Particle Count – 1.0 µm and greater	≤ 10 par/ml	3 par/ml

>>> Continued on page 3 >>>

Nitric Acid 69%
CMOS

avantor™ | J.T.Baker®

Material No.: 9606-03
Batch No.: 24D1062002

Test	Specification	Result

For Microelectronic Use

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

Jamie Croak
Director Quality Operations, Bioscience Production

Sulfuric Acid
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis
Low Selenium

M 6041-46
MS

avantor™ | J.T.Baker®

Material No.: 9673-33
Batch No.: 23D2462010
Manufactured Date: 2023-03-22
Retest Date: 2028-03-20
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
ACS – Assay (H_2SO_4)	95.0 – 98.0 %	96.1 %
Appearance	Passes Test	Passes Test
ACS – Color (APHA)	≤ 10	5
ACS – Residue after Ignition	≤ 3 ppm	< 1 ppm
ACS – Substances Reducing Permanganate (as SO2)	≤ 2 ppm	< 2 ppm
Ammonium (NH_4)	≤ 1 ppm	1 ppm
Chloride (Cl)	≤ 0.1 ppm	< 0.1 ppm
Nitrate (NO_3)	≤ 0.2 ppm	< 0.1 ppm
Phosphate (PO_4)	≤ 0.5 ppm	< 0.1 ppm
Trace Impurities – Aluminum (Al)	≤ 30.0 ppb	< 5.0 ppb
Arsenic and Antimony (as As)	≤ 4.0 ppb	< 2.0 ppb
Trace Impurities – Boron (B)	≤ 10.0 ppb	8.5 ppb
Trace Impurities – Cadmium (Cd)	≤ 2.0 ppb	< 0.3 ppb
Trace Impurities – Chromium (Cr)	≤ 6.0 ppb	< 0.4 ppb
Trace Impurities – Cobalt (Co)	≤ 0.5 ppb	< 0.3 ppb
Trace Impurities – Copper (Cu)	≤ 1.0 ppb	< 0.1 ppb
Trace Impurities – Gold (Au)	≤ 10.0 ppb	0.5 ppb
Heavy Metals (as Pb)	≤ 500.0 ppb	< 100.0 ppb
Trace Impurities – Iron (Fe)	≤ 50.0 ppb	1.3 ppb
Trace Impurities – Lead (Pb)	≤ 0.5 ppb	< 0.5 ppb
Trace Impurities – Magnesium (Mg)	≤ 7.0 ppb	0.8 ppb
Trace Impurities – Manganese (Mn)	≤ 1.0 ppb	< 0.4 ppb
Trace Impurities – Mercury (Hg)	≤ 0.5 ppb	< 0.1 ppb
Trace Impurities – Nickel (Ni)	≤ 2.0 ppb	0.3 ppb
Trace Impurities – Potassium (K)	≤ 500.0 ppb	< 2.0 ppb
Trace Impurities – Selenium (Se)	≤ 50.0 ppb	< 0.1 ppb
Trace Impurities – Silicon (Si)	≤ 100.0 ppb	31.5 ppb
Trace Impurities – Silver (Ag)	≤ 1.0 ppb	< 0.3 ppb

>>> Continued on page 2 >>>

Sulfuric Acid
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis
Low Selenium

avantor™ | J.T.Baker®

Material No.: 9673-33
Batch No.: 23D2462010

Test	Specification	Result
Trace Impurities - Sodium (Na)	≤ 500.0 ppb	5.4 ppb
Trace Impurities - Strontium (Sr)	≤ 5.0 ppb	< 0.2 ppb
Trace Impurities - Tin (Sn)	≤ 5.0 ppb	< 0.8 ppb
Trace Impurities - Zinc (Zn)	≤ 5.0 ppb	0.4 ppb

For Laboratory,Research,or Manufacturing Use

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

James T Ethier
Jamie Ethier
Vice President Global Quality

R: 8/19/24 M6069

MACHEREY-NAGEL

Certificate of Analysis

Product information

Product	pH-Fix 0.3-2.3
REF	92180
LOT	80A0441
Expiration date:	29.02.2028
Date of examination:	23.01.2024
Gradation:	pH 0.3-0.7-1.0-1.3-1.6-1.9-2.3

Confirmation

Hereby we confirm, that the above mentioned product has successfully passed our quality control system in accordance with ISO 9001 and meets the specific quality criteria.

This document has been produced electronically and is valid without a signature.

MACHEREY-NAGEL GmbH & Co. KG
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www.mn-net.com

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US Tel.: +1 888 321 62 24 sales-us@mn-net.com

Certificate of Analysis

1.00132.0000 Barbituric acid for analysis EMSURE®
Batch N020065932

	Spec. Values		Batch Values	
Assay (acidimetric)	≥ 99	%	99.6	%
Identity (IR-spectrum)	passes test		passes test	
Chloride (Cl)	≤ 40	ppm	≤ 40	ppm
Heavy metals (as Pb)	≤ 50	ppm	≤ 50	ppm
Fe (Iron)	≤ 10	ppm	≤ 10	ppm
Sulfated ash	≤ 0.1	%	≤ 0.1	%
Loss on Drying (105 °C)	≤ 0.1	%	≤ 0.1	%
Suitability as reagent (for cyanide determination)	passes test		passes test	

Date of release (DD.MM.YYYY) 17.04.2020
Minimum shelf life (DD.MM.YYYY) 30.04.2025

Ioannis Chartomatsidis
Responsible laboratory manager quality control

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Subject to Vadodara Jurisdiction

CHAMPA PURIE-CHEM INDUSTRIES

ISO 9001 : 2015 CERTIFIED COMPANY

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Web : www.cpcindia.com

W2708 Received on 05/05/20 by AP

CERTIFICATE OF ANALYSIS

PRODUCT : **POTASSIUM PHOSPHATE MONOBASIC Anhy. - ACS**

CERTIFICATE NO : 99/2019- 20 DATE 26-08-2019

Date of receipt of sample : 22.08.2019 Quantity : 1000 KGS

Batch No. /Lot No : 99/2019- 20

Mfg. Date : Aug-2019

1. Characteristic : A White powder

2. Identification : Positive

	RESULT OBTAINED	LIMITS
3. Clearity and colour of solution	: 10% solution is clear and colourless	
4. Assay (on dry basis)	: 99.27%	Min.99.00%
5. PH (5% solution)	: 4.4	4.1-4.5
6. Loss on Drying	: 0.1%	Max 0.2%
7. Heavy Metals	: 0.0003%	Max.0.001%
8. Iron	: 0.001%	Max 0.002%
9. Sulphate	: 0.001%	Max. 0.003%
10. Chloride	: 0.0005%	Max.0.001%
11. Insoluble Matter	: 0.003%	Max. 0.01%
12. Sodium	: 0.004%	Max. 0.005%

The sample does comply with specification as per Above.

Analysed by J.A.PATHAK

Quality Control Department

CORCO CHEMICAL CORPORATION

Manufacturers of ACS Reagents and Semiconductor Grade Chemicals

Office and Plant
299 Cedar Lane
Fairless Hills, PA 19030

Phone: 215-295-5006
Fax: 215-295-0781

W3038
JS
OP04Y21.

Acetic Acid, Glacial, ACS

Reagent Grade

SPECIFICATION	MAXIMUM LIMITS
Appearance	Colorless and free from suspended matter or sediment
Assay	99.7 min.
Color (APHA)	10
Dilution Test	Passes Test
Residue after evaporation	0.001%
Acetic Anhydride	0.01%
Chloride (cl)	1 ppm
Sulfate (SO_4)	1 ppm
Heavy Metals (as Pb)	0.5 ppm
Iron (Fe)	0.2 ppm
Sub. Red. Dichromate	Passes Test
Sub. Red. Permanganate	Passes Test
Titratable Base	0.0004meq/g

06/20/2023

W2668 Received on 02/10/2020 by AP

Sodium Phosphate, Monobasic, Monohydrate, Crystal
BAKER ANALYZED® A.C.S. Reagent

(sodium dihydrogen phosphate, monohydrate)

Material No.: 3818-05
Batch No.: 0000225799
Manufactured Date: 2018/12/05
Retest Date: 2025/12/03
Revision No: 1

Certificate of Analysis

Meets ACS Reagent Chemical Requirements,

Test	Specification	Result
Assay ($NaH_2PO_4 \cdot H_2O$)	98.0 - 102.0 %	99.5
pH of 5% Solution at 25°C	4.1 - 4.5	4.3
Insoluble Matter	<= 0.01 %	< 0.01
Chloride (Cl)	<= 5 ppm	< 5
ACS - Sulfate (SO_4)	<= 0.003 %	< 0.003
Calcium (Ca)	<= 0.005 %	<0.005
Potassium (K)	<= 0.01 %	< 0.01
Heavy Metals (as Pb)	<= 0.001 %	< 0.001
Trace Impurities - Iron (Fe)	<= 0.001 %	< 0.001

For Laboratory, Research or Manufacturing Use
Meets Reagent Specifications for testing USP/NF monographs

Country of Origin: IN
Packaging Site: Paris Mfg Ctr & DC

Jamie Ethier
Vice President Global Quality

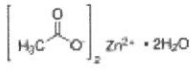
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Avantor Performance Materials, LLC
100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone: 610.386.1700

3050 Spruce Street, Saint Louis, MO 63103, USA
Website: www.sigmaaldrich.com
Email USA: techserv@sial.com
Outside USA: eurtechserv@sial.com

W2926
open 7/5/22
received
on
7/5/22

Certificate of Analysis

Product Name:
Zinc acetate dihydrate - ACS reagent, ≥98%



Product Number:	**383058**
Batch Number:	**MKCQ9159**
Brand:	SIGALD
CAS Number:	5970-45-6
MDL Number:	MFCD00066961
Formula:	C4H6O4Zn · 2H2O
Formula Weight:	219.51 g/mol
Quality Release Date:	06 JAN 2022

Test	Specification	Result
Appearance (Color)	White	White
Appearance (Form)	Powder or Crystal or Chunk(s)	Powder
Infrared Spectrum	Conforms to Structure	Conforms
Insoluble Matter	≤ 0.005 %	0.003 %
Calcium (Ca)	≤ 0.005 %	0.003 %
Chloride (Cl)	≤ 5 ppm	< 5 ppm
Iron (Fe)	≤ 5 ppm	< 5 ppm
Potassium (K)	≤ 0.01 %	0.00 %
Magnesium (Mg)	≤ 0.005 %	0.003 %
Sodium (Na)	≤ 0.05 %	0.03 %
Lead (Pb)	≤ 0.002 %	< 0.001 %
pH	6.0 - 7.0	6.1
Sulfate (SO4)	≤ 0.005 %	< 0.005 %
Complexometric EDTA	98.0 - 101.0 %	100.3 %
Meets ACS Requirements	Meets Requirements	Meets Requirements

Larry Coers, Director
Quality Control
Milwaukee, WI US

Sigma-Aldrich warrants, that at the time of the quality release or subsequent retest date this product conformed to the information contained in this publication. The current Specification sheet may be available at Sigma-Aldrich.com. For further inquiries, please contact Technical Service. Purchaser must determine the suitability of the product for its particular use. See reverse side of invoice or packing slip for additional terms and conditions of sale.

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W2977 Rec 11/15/22

Certificate of Analysis

Starch Indicator, 0.5% (w/v), Mercury Free, for Iodometric Titrations

Lot Number: 4210G90 **Product Number:** 8000

Manufacture Date: OCT 17, 2022
Expiration Date: OCT 2024

This product is Mercury-free.

Name	CAS#	Grade
Water	7732-18-5	ACS/ASTM/USP/EP
Starch, soluble	9005-84-9	ACS
Salicylic Acid	69-72-7	ACS

Test	Specification	Result
Appearance	White translucent liquid	Passed
Suitability for Use	Colorless (Iodine absent) - Blue (Iodine present)	Passed

Specification	Reference
Starch Solution	APHA (4500-S2- F)
Starch Indicator Solution	APHA (4500-Cl B)
Starch Indicator	APHA (4500-SO32- B)
Starch indicator solution	APHA (2350 B)
Starch indicator solution	APHA (2350 E)
Starch Solution	APHA (510 B)
Starch Solution	APHA (5530 C)
Starch Indicator	APHA (4500-Cl C)
Starch Indicator	EPA (345.1)

Volumetric glassware complies with Class A tolerance requirements of ASTM E 288 and NIST Circular 434; it is calibrated before first use and recalibrated regularly in accordance with ASTM E 542 and NIST Procedure NBSIR 74-461. Balances are calibrated regularly with weights certified traceable to the NIST national mass standard. Thermometers and temperature probes are calibrated before first use and recalibrated regularly with a thermometer traceable to NIST standards. All products are prepared according to master documents that assure manufacture according to validated methods. Batch records document raw material traceability and production and testing history for each lot manufactured.

Part Number	Size / Package Type	Shelf Life (Unopened Container)
8000-1	4 L natural poly	24 months
8000-5	20 L Cubitainer®	24 months

Recommended Storage: 15°C - 30°C (59°F - 86°F)



Paul Brandon (10/17/2022)
Production Manager
This Certificate of Analysis is designed to comply with ISO Guide 31 "Reference Materials -- Contents of Certificates and Labels."

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Sigma-Aldrich.

W 2979

Rec: 12/09/22

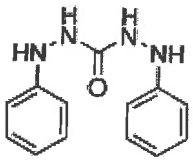
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3050 Spruce Street, Saint Louis, MO 63103, USA
Website: www.sigmaaldrich.com
Email USA: techserv@sial.com
Outside USA: eurtechserv@sial.com

Certificate of Analysis

Product Name:
1,5-Diphenylcarbazide - ACS reagent

Product Number:	**259225**
Batch Number:	**MKCR6636**
Brand:	SIAL
CAS Number:	140-22-7
MDL Number:	MFCD00003013
Formula:	C13H14N4O
Formula Weight:	242.28 g/mol
Quality Release Date:	02 JUN 2022



Test	Specification	Result
Appearance (Color) Off-White to Pink, Light Purple or Tan	Conforms to Requirements	Pink
Appearance (Form)	Powder or Chunks	Powder
Melting Point	173.0 - 176.0 °C	173.0 °C
Infrared Spectrum	Conforms to Structure	Conforms
Residue on ignition (Ash) 15 minutes, 800 Degrees Celsius	≤ 0.05 %	0.01 %
Solubility	Pass	Pass
Sensitivity Test	Pass	Pass
Meets ACS Requirements	Current ACS Specification	Conforms

Larry Coers, Director
Quality Control
Milwaukee, WI US

Sigma-Aldrich warrants, that at the time of the quality release or subsequent retest date this product conformed to the information contained in this publication. The current Specification sheet may be available at Sigma-Aldrich.com. For further inquiries, please contact Technical Service. Purchaser must determine the suitability of the product for its particular use. See reverse side of invoice or packing slip for additional terms and conditions of sale.

PO: 221207-08 PRODUCT CODE: SHIP DATE: 12/27/2022

Sulfuric Acid, 0.02N Volumetric Solution
BAKER ANALYZED® Reagent

W2988 W2994
W2989 W2995
W2990
W2991
W2992
W2993

avantor™ | J.T.Baker®

Material No.: 5693-03
Batch No.: 22J0661073
Manufactured Date: 2022-09-23
Expiration Date: 2024-09-22
Revision No.: 0

Certificate of Analysis

REC. 12/29/22

Test	Specification	Result
Normality	0.0195 - 0.0205	0.0201
Chloride (Cl)	≤ 1 ppm	< 1 ppm
Phosphate (PO_4)	≤ 1 ppm	< 1 ppm
Heavy Metals (as Pb)	≤ 0.3 ppm	< 0.2 ppm
Trace Impurities – Iron (Fe)	≤ 0.5 ppm	< 0.3 ppm

For Laboratory,Research,or Manufacturing Use
Standardization at 25°C traceable to NIST Standard Reference Material.
SRM No

Country of Origin: USA
Packaging Site: Paris Mfg Ctr & DC

James T Ethier
Jamie Ethier
Vice President Global Quality

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700
Avantor Performance Materials, LLC
100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone 610.386.1700
Page 1 of 1

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W 3005 REC. 1/31/23 12

Certificate of Analysis

Buffer, Reference Standard, pH 2.00 ± 0.01 at 25°C

Lot Number: 4212E45 **Product Number:** 1493

Manufacture Date: DEC 20, 202[illegible]

Expiration Date: DEC 202[illegible]

The certified value for this product is confirmed in independent testing by a second qualified chemist.
The NIST traceable pH value is certified to ±0.01 at 25 °C only. All other pH values at their corresponding temperatures are accurate to ± 0.05.

°C	10	15	20	25	30	35	40	45	50
pH	1.93	1.98	1.98	2.00	2.01	2.03	2.03	2.04	2.04

Name	CAS#	Grade
Water	7732-18-5	ACS/ASTM/USP/EP
Potassium Chloride	7447-40-7	ACS
Hydrochloric Acid	7647-01-0	ACS

Test	Specification	Result	
Appearance	Colorless liquid	Passed	*Not a certified value.

Test	Certified Value	Uncertainty	NIST SRM#
pH at 25°C (Method: SQCP027, SQCP033)	2.000	0.02	185i, 186-I-g, 186-II-g

pH measurements were performed in our Batesville, IN laboratory under ISO/IEC 17025 accreditation (ANAB Certificate L2387.02) and are certified traceable to National Institute of Standards and Technology (NIST) Standard Reference Material as indicated above via an unbroken chain of comparisons. The uncertainty is calculated from the uncertainty of the measurement variation from sample to sample, the uncertainty in the NIST Standard Reference Material, and the uncertainty of the measurement process. The uncertainty is multiplied by k=2, corresponding to 95% coverage in a normal distribution. Volumetric glassware complies with Class A tolerance requirements of ASTM E 288 and NIST Circular 434; it is calibrated before first use and recalibrated regularly in accordance with ASTM E 542 and NIST Procedure NBSIR 74-461. Balances are calibrated regularly with weights certified traceable to the NIST national mass standard. Thermometers and temperature probes are calibrated before first use and recalibrated regularly with a thermometer traceable to NIST standards. All products are prepared according to master documents that assure manufacture according to validated methods. Batch records document raw material traceability and production and testing history for each lot manufactured.

Part Number	Size / Package Type	Shelf Life (Unopened Container)
1493-1	4 L natural poly	24 months
1493-16	500 mL natural poly	24 months
1493-32	1 L natural poly	24 months
1493-5	20 L Cubitainer®	24 months

Recommended Storage: 15°C - 30°C (59°F - 86°F)



Paul Brandon (12/20/2022)
Production Manager
This Certificate of Analysis is designed to comply with ISO Guide 31 "Reference Materials -- Contents of Certificates and Labels."

This product was tested in an ISO 17025 Accredited Laboratory

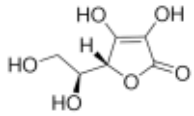
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Website: www.sigmaaldrich.com
Email USA: techserv@sial.com
Outside USA: eurtechserv@sial.com

W3074 Rec. on 01/16/24 by IZ

Certificate of Analysis

Product Name:
L-Ascorbic acid - ACS reagent, ≥99%



Product Number:	**255564**
Batch Number:	**MKCS4627**
Brand:	SIAL
CAS Number:	50-81-7
MDL Number:	MFCD00064328
Formula:	C6H8O6
Formula Weight:	176.12 g/mol
Quality Release Date:	21 NOV 2022
Recommended Retest Date:	SEP 2025

Test	Specification	Result
Appearance (Color)	White	White
Appearance (Form) Powder, Crystals, Crystalline Powder, Granules and/or Chunks	Conforms to Requirements	Powder
Infrared Spectrum	Conforms to Structure	Conforms
Optical Rotation (+); c = 10%; Water	20.5 - 21.5 deg	20.7 deg
Titration by Iodine	≥ 99.0 %	99.4 %
Residue on Ignition	≤ 0.10 %	0.03 %
Iron (Fe)	≤ 0.001 %	< 0.001 %
Heavy Metals by ICP-OES	≤ 0.002 %	0.001 %
Recommended Retest Period 3 Years	----------	----------
Meets ACS Requirements	Current ACS Specification	Conforms

Larry Coers, Director
Quality Control
Milwaukee, WI US

Sigma-Aldrich warrants, that at the time of the quality release or subsequent retest date this product conformed to the information contained in this publication. The current Specification sheet may be available at Sigma-Aldrich.com. For further inquiries, please contact Technical Service. Purchaser must determine the suitability of the product for its particular use. See reverse side of invoice or packing slip for additional terms and conditions of sale.

W 3078 Rec. on 1/26/24 by 12

Sigma-Aldrich.

3050 Spruce Street, Saint Louis, MO 63103, USA
Website: www.sigmaaldrich.com
Email USA: techserv@sial.com
Outside USA: eurtechserv@sial.com

Certificate of Analysis

Product Name:
Hydrazine sulfate salt - ACS reagent, ≥99.0%

$NH_2NH_2 \cdot H_2SO_4$

Product Number:	**216046**
Batch Number:	**BCCK9980**
Brand:	SIAL
CAS Number:	10034-93-2
Formula:	H4N2 · H2SO4
Formula Weight:	130,12 g/mol
Quality Release Date:	13 OCT 2023

Test	Specification	Result
Appearance (Color)	White	White
Appearance (Form)	Powder or Crystals or Chunk(s)	Crystals
Redox Titration With Iodine	≥ 99.0 %	99.4 %
Residue on Ignition	≤ 0.05 %	0.01 %
Infrared Spectrum	Conforms to Structure	Conforms
Meets ACS Requirements	Corresponds to Requirements	Corresponds
ACS Specifications Heavy Metals < = 0.002 % (as Pb), Insoluble Matter < = 0.005 % (C= 6.67%, H2O)	Corresponds to Requirements	Corresponds
Iron (Fe)	≤ 10 mg/kg	< 10 mg/kg
Chloride (Cl)	≤ 50 mg/kg	< 50 mg/kg

Dr.Reinhold Schwenninger
Quality Assurance
Buchs,Switzerland CH

Sigma-Aldrich warrants, that at the time of the quality release or subsequent retest date this product conformed to the information contained in this publication. The current Specification sheet may be available at Sigma-Aldrich.com. For further inquiries, please contact Technical Service. Purchaser must determine the suitability of the product for its particular use. See reverse side of invoice or packing

Certificate of Analysis

W 3079
SP

Product information

Product:	**Silica 60, 0.063 - 0.200 mm**
REF:	**815330.25**
LOT:	**072154301**

Technical data

Material:	**Synthethic amorphus silica (irregular shaped)**
Description:	**White powder**

Parameter	Specifications	Result
Specific surface (m^2/g, N2 adsorption) :	450 - 550	537
Particle size distribution (screen analysis) :	< 63 µm max. 5 %	0.3
	> 200 µm max. 5 %	0.1
pH value :	6.0 - 7.5	7
Water content (%) :	< 7	3.6
Pore volume (mL/g, N2 adsorption) :	0.65 - 0.85	0.82
Mean pore size (Å, N2 adsorption) :	50 - 70	62

Expiry

This product has no stated expiration date or shelf life.

We recommend to use the product within a time period of 5 years after date of QC release.
This time period is valid only if the product is stored under dry and frost-free conditions.
After 5 years we recommend retesting the adsorbent to make sure that the expected performance is still given.

Confirmation

Hereby we confirm, that the above mentioned product has successfully passed our quality control system in accordance with ISO 9001 and meets the specific quality criteria.

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Date of measurement: 16.02.2023 22:00

ThermoFisher SCIENTIFIC

Certificate of Analysis

W3081 Recieved on 02/26/2024 by IZ

Product No.: 036462

Product: Hexamethylenetetramine, ACS, 99+%

Lot No.: M02K021

Appearance White solid

Test	Limits	Results
Assay	99.0 % min	100.7 %
Loss on drying	2.0 % max	0.2 %
Heavy metals (as Pb)	0.001 % max	< 0.001 %
Residue after ignition	0.1 % max	< 0.1 %

Retest Date: January 2, 2027

Order our products online **thermofisher.com/chemicals**

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Products are processed under ISO 9001:2015 quality management systems and samples are tested for conformance to the noted specifications. Certain data may have been supplied by third parties. We disclaim the implied warranties of merchantability and fitness for a particular purpose, and the accuracy of third party data or information associated with the product. Products are for research and development use only. Products are not for direct administration to humans or animals. It is the responsibility of the final formulator or end user to determine suitability, and to qualify and/or validate each product for its intended use.

Certificate of analysis

W3082 Received on 2/26/2026 by IZ

Product No.:	A12244
Product:	Stearic acid, 98%
Lot No.:	U23E020

Appearance	White flakes
Assay	98.7 %

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BEANTOWN CHEMICAL

Certificate of Analysis

Catalog Number	123260
Product Description	Sulfanilamide, 99%
CAS Number	63-74-1
Lot Number	50091180

Test Results

	Specifications	Results
Assay (Titration HClO4)	≥ 99.0%	99.7%
Appearance/Color	White to off-white crystalline powder	White crystalline powder
Loss on drying (1g, 105°C)	≤ 0.5%	0.03%
Melting Point	163-167°C	164.7-165.3°C
Identification (FTIR)	Positive	Positive
Solubility (50 mg/ml 0.5M HCl)	Clear, colorless to faint yellow	Passes test
Suggested retest date	June 2028	

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W3093 0941 04/03/2024 LG

Certificate of Analysis

Buffer, Reference Standard, pH 7.00 ± 0.01 at 25°C (Color Coded Yellow)

Lot Number: 4401F99 **Product Number:** 1551

Manufacture Date: JAN 08, 2024
Expiration Date: DEC 2025

The certified value for this product is confirmed in independent testing by a second qualified chemist.
The NIST traceable pH value is certified to ±0.01 at 25 °C only. All other pH values at their corresponding temperatures are accurate to ± 0.05.

°C	0	5	10	15	20	25	30	35	40	45	50
pH	7.12	7.09	7.06	7.04	7.02	7.00	6.99	6.98	6.98	6.97	6.97

Name	CAS#	Grade
Water	7732-18-5	ACS/ASTM/USP/EP
Sodium Phosphate Dibasic	7558-79-4	ACS
Potassium Dihydrogen Phosphate	7778-77-0	ACS
Preservative	Proprietary	
Yellow Dye	Proprietary	
Sodium Hydroxide	1310-73-2	

Test	Specification	Result	
Appearance	Yellow liquid	Passed	*Not a certified value.

Test	Certified Value	Uncertainty	NIST SRM#
pH at 25°C (Method: SQCP027, SQCP033)	7.004	0.02	186-I-g, 186-II-g, 191d

Specification	Reference
Commercial Buffer Solutions	ASTM (D 1293 B)
Buffer A	ASTM (D 5464)
Buffer A	ASTM (D 5128)

pH measurements were performed in our Batesville, IN laboratory under ISO/IEC 17025 accreditation (ANAB Certificate L2387.02) and are certified traceable to National Institute of Standards and Technology (NIST) Standard Reference Material as indicated above via an unbroken chain of comparisons. The uncertainty is calculated from the uncertainty of the measurement variation from sample to sample, the uncertainty in the NIST Standard Reference Material, and the uncertainty of the measurement process. The uncertainty is multiplied by k=2, corresponding to 95% coverage in a normal distribution. Volumetric glassware complies with Class A tolerance requirements of ASTM E 288 and NIST Circular 434; it is calibrated before first use and recalibrated regularly in accordance with ASTM E 542 and NIST Procedure NBSIR 74-461. Balances are calibrated regularly with weights certified traceable to the NIST national mass standard. Thermometers and temperature probes are calibrated before first use and recalibrated regularly with a thermometer traceable to NIST standards. All products are prepared according to master documents that assure manufacture according to validated methods. Batch records document raw material traceability and production and testing history for each lot manufactured.

Part Number	Size / Package Type	Shelf Life (Unopened Container)
1551-1	4 L natural poly	24 months
1551-1CT	4 L Cubitainer®	24 months
1551-2.5	10 L Cubitainer®	24 months
1551-5	20 L Cubitainer®	24 months

Recommended Storage: 15°C - 30°C (59°F - 86°F)

Paul Brandon (01/08/2024)
Production Manager
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This product was tested in an ISO 17025 Accredited Laboratory

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W3094 78 open: 04/03/2025

Certificate of Analysis

Buffer, Reference Standard, pH 10.00 ± 0.01 at 25°C (Color Coded Blue)

Lot Number: 4310G83 **Product Number:** 1601

Manufacture Date: OCT 09, 2023
Expiration Date: MAR 2025

The certified value for this product is confirmed in independent testing by a second qualified chemist.
The NIST traceable pH value is certified to ±0.01 at 25 °C only. All other pH values at their corresponding temperatures are accurate to ± 0.05.

°C	0	5	10	15	20	25	30	35	40	50
pH	10.31	10.23	10.17	10.11	10.05	10.00	9.95	9.91	9.87	9.81

Name	CAS#	Grade
Water	7732-18-5	ACS/ASTM/USP/EP
Sodium Carbonate	497-19-8	ACS
Sodium Bicarbonate	144-55-8	ACS
Sodium Hydroxide	1310-73-2	Reagent
Preservative	Proprietary	
Blue Dye	Proprietary	

Test	Specification	Result	
Appearance	Blue liquid	Passed	*Not a certified value.

Test	Certified Value	Uncertainty	NIST SRM#
pH at 25°C (Method: SQCP027, SQCP033)	10.003	0.02	186-I-g, 186-II-g, 191d

Specification	Reference
Commercial Buffer Solutions	ASTM (D 1293 B)
Buffer C	ASTM (D 5464)
Buffer C	ASTM (D 5128)

pH measurements were performed in our Batesville, IN laboratory under ISO/IEC 17025 accreditation (ANAB Certificate L2387.02) and are certified traceable to National Institute of Standards and Technology (NIST) Standard Reference Material as indicated above via an unbroken chain of comparisons. The uncertainty is calculated from the uncertainty of the measurement variation from sample to sample, the uncertainty in the NIST Standard Reference Material, and the uncertainty of the measurement process. The uncertainty is multiplied by k=2, corresponding to 95% coverage in a normal distribution. Volumetric glassware complies with Class A tolerance requirements of ASTM E 288 and NIST Circular 434; it is calibrated before first use and recalibrated regularly in accordance with ASTM E 542 and NIST Procedure NBSIR 74-461. Balances are calibrated regularly with weights certified traceable to the NIST national mass standard. Thermometers and temperature probes are calibrated before first use and recalibrated regularly with a thermometer traceable to NIST standards. All products are prepared according to master documents that assure manufacture according to validated methods. Batch records document raw material traceability and production and testing history for each lot manufactured.

Part Number	Size / Package Type	Shelf Life (Unopened Container)
1601-16	500 mL natural poly	18 months
1601-5	20 L Cubitainer®	18 months

Recommended Storage: 15°C - 30°C (59°F - 86°F)



Paul Brandon (10/09/2023)
Production Manager
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W3095 Received on 04/09/2024 by IZ

Certificate of Analysis

Mercuric Nitrate, 0.141 Normal, 0.0705 Molar, 1 mg = 5 mL Cl^-

Lot Number: 4403N69 **Product Number:** 4740

Manufacture Date: MAR 26, 2024
Expiration Date: MAR 2026

Name	CAS#	Grade
Water	7732-18-5	ACS/ASTM/USP/EP
Mercuric Nitrate Monohydrate	7783-34-8	ACS
Nitric Acid	7697-37-2	ACS

Test	Specification	Result	NIST SRM#
Appearance	Colorless liquid	Passed	
Assay (vs. Potassium Chloride/Diphenylcarbazone)	0.1409-0.1411 N at 20°C	0.1410 N at 20°C	999

Specification	Reference
Strong Standard Mercuric Nitrate Titrant, 0.0705 M (0.141 N)	APHA (4500-Cl- C)
Mercuric Nitrate Titrant (0.141 N)	EPA (325.3)

Volumetric glassware complies with Class A tolerance requirements of ASTM E 288 and NIST Circular 434; it is calibrated before first use and recalibrated regularly in accordance with ASTM E 542 and NIST Procedure NBSIR 74-461. Balances are calibrated regularly with weights certified traceable to the NIST national mass standard. Thermometers and temperature probes are calibrated before first use and recalibrated regularly with a thermometer traceable to NIST standards. All products are prepared according to master documents that assure manufacture according to validated methods. Batch records document raw material traceability and production and testing history for each lot manufactured.

Part Number	Size / Package Type	Shelf Life (Unopened Container)
4740-16	500 mL amber glass	24 months

Recommended Storage: 15°C - 30°C (59°F - 86°F)

Paul Brandon (03/26/2024)
Production Manager
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W3103 Received on 4/22/24 by IZ

Certificate of Analysis

Manganous Sulfate Solution, 364 g/L

Lot Number: 2403J02 **Product Number:** 4620

Manufacture Date: MAR 15, 2024
Expiration Date: MAR 2026

Name	CAS#	Grade
Water	7732-18-5	ACS/ASTM/USP/EP
Manganous Sulfate Monohydrate	10034-96-5	Reagent
Sulfuric Acid	7664-93-9	ACS

Test	Specification	Result
Appearance	Pink liquid	Passed
Assay (by Refractive Index)	360-368 g/L	367 g/L

Specification	Reference
Manganous Sulfate Solution	ASTM (D 888 A)
Manganous Sulfate Solution	ASTM (D 888 A)
Manganous Sulfate Solution	APHA (4500-O E)
Manganous Sulfate Solution	APHA (4500-O F)
Manganous Sulfate Solution	APHA (4500-O D)
Manganous Sulfate Solution	APHA (4500-O E)
Manganous Sulfate Solution	APHA (4500-O F)
Manganous Sulfate Solution	APHA (4500-O D)
Manganous Sulfate Solution	APHA (4500-O C)
Manganous Sulfate Solution	APHA (4500-O C)
Manganous Sulfate Solution	EPA (360.2)
Manganous Sulfate Solution	EPA (360.2)

Volumetric glassware complies with Class A tolerance requirements of ASTM E 288 and NIST Circular 434; it is calibrated before first use and recalibrated regularly in accordance with ASTM E 542 and NIST Procedure NBSIR 74-461. Balances are calibrated regularly with weights certified traceable to the NIST national mass standard. Thermometers and temperature probes are calibrated before first use and recalibrated regularly with a thermometer traceable to NIST standards. All products are prepared according to master documents that assure manufacture according to validated methods. Batch records document raw material traceability and production and testing history for each lot manufactured.

Part Number	Size / Package Type	Shelf Life (Unopened Container)
4620-32	1 L natural poly	24 months

Recommended Storage: 15°C - 30°C (59°F - 86°F)



Jose Pena (03/15/2024)
Operations Manager
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W3104 Received on 4/22/24 by IZ

Certificate of Analysis

Cyanide Standard, 1000 ppm CN^-

Lot Number: 1404G63 **Product Number:** 2543

Manufacture Date: APR 12, 2024
Expiration Date: SEP 2024

This standard is prepared using accurate volumetric techniques from material that has been assayed against Silver Nitrate solution certified traceable to NIST Standard Reference Material 999. The certified value reported is the prepared value based upon the method of preparation of the material. The uncertainty in the prepared value is the combined uncertainty based on the stability of the assayed Potassium Cyanide, and the uncertainty in the mass and volume measurements.
Use 0.16% (w/v) (0.04 N) Sodium Hydroxide or 0.225 % (w/v) (0.04 N) Potassium Hydroxide to make dilutions of this standard. Restandardize weekly if extreme accuracy is required.

Name	CAS#	Grade
Water	7732-18-5	ACS/ASTM/USP/EP
Potassium Cyanide	151-50-8	ACS
Sodium Hydroxide	1310-73-2	Reagent

Test	Specification	Result
Appearance	Colorless liquid	Passed
Cyanide (CN^-)	995-1005 ppm	1000 ppm

Specification	Reference
Stock Standard Cyanide Solution	APHA (4500-CN- F)
Stock Cyanide Solution	APHA (4500-CN- E)
Stock Cyanide Solution	APHA (4500-CN- K)
Stock Cyanide Solution	APHA (4500-CN- H)
Cyanide Reference Solution (1000 mg/L)	EPA (SW-846) (7.3.3.2)
Cyanide Calibration Stock Solution (1,000 mg/L CN-)	EPA (SW-846) (9213)
Stock Cyanide Solution	EPA (335.3)
Stock Cyanide Solution	EPA (335.2)
Cyanide Solution Stock	ASTM (D 4282)
Simple Cyanide Solution, Stock (1.0 g/L CN)	ASTM (D 4374)

Volumetric glassware complies with Class A tolerance requirements of ASTM E 288 and NIST Circular 434; it is calibrated before first use and recalibrated regularly in accordance with ASTM E 542 and NIST Procedure NBSIR 74-461. Balances are calibrated regularly with weights certified traceable to the NIST national mass standard. Thermometers and temperature probes are calibrated before first use and recalibrated regularly with a thermometer traceable to NIST standards. All products are prepared according to master documents that assure manufacture according to validated methods. Batch records document raw material traceability and production and testing history for each lot manufactured.

Part Number	Size / Package Type	Shelf Life (Unopened Container)
2543-4	120 mL amber poly	6 months

Recommended Storage: 2°C - 8°C (36°F - 46°F)



Heidi J Green (04/12/2024)

Operations Manager

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W3105 Received on 4/22/24 by IZ

Certificate of Analysis

Sodium Thiosulfate, 0.0250 Normal (N/40)

Lot Number: 4403S13 **Product Number:** 7900

Manufacture Date: MAR 29, 2024
Expiration Date: SEP 2025

This product is specially formulated to increase its stability. A preservative is added to prevent bacterial contamination. However, all Sodium Thiosulfate solutions are subject to slow chemical deterioration and should be restandardized periodically.

Name	CAS#	Grade
Water	7732-18-5	ACS/ASTM/USP/EP
Sodium Thiosulfate Pentahydrate	10102-17-7	ACS
Organic Preservative	Proprietary	
Sodium Carbonate	497-19-8	ACS

Test	Specification	Result	NIST SRM#
Appearance	Colorless liquid	Passed	
Assay (vs. Potassium Iodate/Starch)	0.02499-0.02501 N at 20°C	0.02501 N at 20°C	136

Specification	Reference
Standard Sodium Thiosulfate Solution, 0.0250 N	APHA (4500-S2- F)
Standard Sodium Thiosulfate Titrant	APHA (4500-O D)
Standard Sodium Thiosulfate Titrant	APHA (4500-O E)
Standard Sodium Thiosulfate Titrant	APHA (4500-O F)
Standard Sodium Thiosulfate Titrant, 0.025 N	APHA (4500-Cl B)
Standard Sodium Thiosulfate Titrant	APHA (4500-O C)
Standard Sodium Thiosulfate Titrant, 0.025 M	APHA (5530 C)
Standard Sodium Thiosulfate Solution (0.025 N)	EPA (SW-846) (9031)
Standard Sodium Thiosulfate solution (0.025 N)	EPA (SW-846) (9034)

Volumetric glassware complies with Class A tolerance requirements of ASTM E 288 and NIST Circular 434; it is calibrated before first use and recalibrated regularly in accordance with ASTM E 542 and NIST Procedure NBSIR 74-461. Balances are calibrated regularly with weights certified traceable to the NIST national mass standard. Thermometers and temperature probes are calibrated before first use and recalibrated regularly with a thermometer traceable to NIST standards. All products are prepared according to master documents that assure manufacture according to validated methods. Batch records document raw material traceability and production and testing history for each lot manufactured.

Part Number	Size / Package Type	Shelf Life (Unopened Container)
7900-1	4 L natural poly	18 months
7900-16	500 mL natural poly	18 months
7900-1CT	4 L Cubitainer®	18 months
7900-32	1 L natural poly	18 months

Recommended Storage: 15°C - 30°C (59°F - 86°F)



Paul Brandon (03/29/2024)
Production Manager
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W3107
38

Certificate of Analysis

Buffer, Reference Standard, pH 4.00 ± 0.01 at 25°C (Color Coded Red)

Lot Number: 4403F90 **Product Number:** 1501

Manufacture Date: MAR 09, 2024
Expiration Date: FEB 2026

The certified value for this product is confirmed in independent testing by a second qualified chemist.
The NIST Traceable pH value is certified to ±0.01 at 25 °C only. All other pH values at their corresponding temperatures are accurate to ± 0.05.

°C	0	5	10	15	20	25	30	35	40	45	50
pH	4.00	4.00	4.00	4.00	4.00	4.00	4.01	4.02	4.03	4.04	4.06

Name	CAS#	Grade
Water	7732-18-5	ACS/ASTM/USP/EP
Potassium Acid Phthalate	877-24-7	Buffer
Preservative	Proprietary	Commercial
Red Dye	Proprietary	Purified

Test	Specification	Result	
Appearance	Red liquid	Passed	*Not a certified value.

Test	Certified Value	Uncertainty	NIST SRM#
pH at 25°C (Method: SQCP027, SQCP033)	4.000	0.02	185i, 186-I-g, 186-II-g

Specification	Reference
Commercial Buffer Solutions	ASTM (D 1293 B)
Buffer B	ASTM (D 5464)
Buffer B	ASTM (D 5128)

pH measurements were performed in our Batesville, IN laboratory under ISO/IEC 17025 accreditation (ANAB Certificate L2387.02) and are certified traceable to National Institute of Standards and Technology (NIST) Standard Reference Material as indicated above via an unbroken chain of comparisons. The uncertainty is calculated from the uncertainty of the measurement variation from sample to sample, the uncertainty in the NIST Standard Reference Material, and the uncertainty of the measurement process. The uncertainty is multiplied by k=2, corresponding to 95% coverage in a normal distribution. Volumetric glassware complies with Class A tolerance requirements of ASTM E 288 and NIST Circular 434; it is calibrated before first use and recalibrated regularly in accordance with ASTM E 542 and NIST Procedure NBSIR 74-461. Balances are calibrated regularly with weights certified traceable to the NIST national mass standard. Thermometers and temperature probes are calibrated before first use and recalibrated regularly with a thermometer traceable to NIST standards. All products are prepared according to master documents that assure manufacture according to validated methods. Batch records document raw material traceability and production and testing history for each lot manufactured.

Part Number	Size / Package Type	Shelf Life (Unopened Container)
1501-2.5	10 L Cubitainer®	24 months
1501-32	1 L natural poly	24 months
1501-5	20 L Cubitainer®	24 months

Recommended Storage: 15°C - 30°C (59°F - 86°F)



Paul Brandon (03/09/2024)
Production Manager
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Certificate of Analysis

Alkaline-Iodide-Azide, Pomeroy Formulation for Dissolved Oxygen (DO) Analysis

Lot Number: 1405D67 **Product Number:** 535

Manufacture Date: APR 05, 2024
Expiration Date: APR 2026

This solution is intended for use with samples with high Dissolved Oxygen content (above 15 mg/L) and for samples with high concentrations of organic material.

Name	CAS#	Grade
Water	7732-18-5	ACS/ASTM/USP/EP
Sodium Iodide	7681-82-5	ACS
Sodium Hydroxide	1310-73-2	ACS
Sodium Azide	26628-22-8	Reagent

Test	Specification	Result
Appearance	Colorless liquid	Passed
Free Iodine	To Pass Test	Passed

Specification	Reference
Alkaline Iodide-Sodium Azide Solution II	ASTM (D 888 A)

Volumetric glassware complies with Class A tolerance requirements of ASTM E 288 and NIST Circular 434; it is calibrated before first use and recalibrated regularly in accordance with ASTM E 542 and NIST Procedure NBSIR 74-461. Balances are calibrated regularly with weights certified traceable to the NIST national mass standard. Thermometers and temperature probes are calibrated before first use and recalibrated regularly with a thermometer traceable to NIST standards. All products are prepared according to master documents that assure manufacture according to validated methods. Batch records document raw material traceability and production and testing history for each lot manufactured.

Part Number	Size / Package Type	Shelf Life (Unopened Container)
535-32	1 L natural poly	24 months

Recommended Storage: 15°C - 30°C (59°F - 86°F)

Heidi J Green (04/05/2024)
Operations Manager

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Certificate of Analysis
ThermoFisher SCIENTIFIC

W3110 SP

Certificate of Analysis

Update: 06/27/2024

1 Reagent Lane
Fair Lawn, NJ 07410
201.796.7100 tel
201.796.1329 fax

Thermo Fisher Scientific's Quality System has been found to conform to Quality Management System Standard ISO9001:2015 by SAI Global Certificate Number CERT – 0120633

This is to certify that units of the lot number below were tested and found to comply with the specifications of the grade listed. Certain data have been supplied by third parties. Thermo Fisher Scientific expressly disclaims all warranties, expressed or implied, including the implied warranties of merchantability and fitness for a particular purpose. Products are for research use or further manufacturing. Not for direct administration to humans or animals. It is the responsibility of the final formulator and end user to determine suitability based upon the intended use of the end product. Products are tested to meet the analytical requirements of the noted grade. The following information is the actual analytical results obtained.

Catalog Number	H303	Quality Test / Release Date	02/23/2024
Lot Number	235898		
Description	HEXANES - OPTIMA		
Country of Origin	United States	Suggested Retest Date	Feb/2029
Chemical Origin	Organic - non animal		
BSE/TSE Comment	No animal products are used as starting raw material ingredients, or used in processing, including lubricants, processing aids, or any other material that might migrate to the finished product.		

N/A			
Result Name	Units	Specifications	Test Value
APPEARANCE		REPORT	Clear, colorless liquid
ASSAY (N-HEXANE)	%	>= 60	73
ASSAY (SUM C6 HYDROCARBONS)	%	>= 99.9	>99.9
COLOR	APHA	<= 5	<5
DENSITY AT 25 DEGREES C	GM/ML	Inclusive Between 0.653 - 0.673	0.670
EVAPORATION RESIDUE	ppm	<= 1	0.3
FLUORESCENCE BACKGROUND	ppb	<= 1	<1
IDENTIFICATION	PASS/FAIL	= PASS TEST	PASS TEST
OPTICAL ABS AT 195 NM	ABS. UNITS	<= 1	0.64
OPTICAL ABS AT 210 NM	ABS. UNITS	<= 0.25	0.16
OPTICAL ABS AT 220 NM	ABS. UNITS	<= 0.07	0.06
OPTICAL ABS AT 254 NM	ABS. UNITS	<= 0.005	0.002
PESTICIDE RESIDUE ANALYSIS	NG/L	<= 10	<10
REFRACTIVE INDEX @ 25 DEG C		Inclusive Between 1.375 - 1.385	1.380
SUITABILITY FOR GC/MS		= PASS TEST	PASS TEST
SULFUR COMPOUNDS	%	<= 0.005	<0.005
THIOPHENE	PASS/FAIL	= PASS TEST	PASS TEST
WATER (H2O)	%	<= 0.01	<0.01
WATER-SOLUBLE TITRABLE ACID	MEQ/G	<= 0.0003	0.0001

Harout Sahagian - Quality Control Manager - Fair Lawn

Note: The data listed is valid for all package sizes of this lot of this product, expressed as an extension of this catalog number listed above.
If there are any questions with this certificate, please call at (800) 227-6701.
*Based on suggested storage condition.

Certificate of Analysis

POTASSIUM HYDROGEN PHTHALATE

Material: **N983**

Grade: **ACS GRADE**

Batch Number: **24A1956910**

Chemical Formula: HOOCC6H4COOK
Molecular Weight: 204.22
CAS #: 877-24-7
Appearance:

White crystals.

Manufacture Date: 01/19/2022
Reassay Date: 01/18/2025

Storage: Room Temperature

TEST	SPECIFICATION	ANALYSIS	DISPOSITION
Assay (dried basis)	99.95 - 100.05 %	99.97 %	PASS
Chlorine Compounds	<= 0.003 %	<0.003 %	PASS
Heavy Metals (as Pb)	<= 5 ppm	<5 ppm	PASS
Insoluble Matter	<= 0.005 %	0.003 %	PASS
Iron	<= 5 ppm	<5 ppm	PASS
pH (0.05M, Water) @25C	4.00 - 4.02	4.00	PASS
Sodium	<= 0.005 %	<0.005 %	PASS
Sulfur Compounds	<= 0.002 %	<0.002 %	PASS

Spec Set: N983ACS

Internal ID #: 710

Signature

We certify that this batch conforms to the specifications listed.

This document has been electronically produced and is valid without a signature.

Leona Edwardson, Quality Control Sr. Manager - Solon
VWR Chemicals, LLC.
28600 Fountain Parkway, Solon OH 44139 USA

Additional Information

Analysis may have been rounded to significant digits in specification limits.

Product meets analytical specifications of the grades listed.

Certificate of Analysis

Sodium Hydroxide (Pellets)

Material: 0583

Grade: ACS GRADE

Batch Number: 23B1556310

Chemical Formula: NaOH
Molecular Weight: 40
CAS #: 1310-73-2
Appearance:

Pellets

Manufacture Date: 12/14/2022
Expiration Date: 12/31/2025

Storage: Room Temperature

TEST	SPECIFICATION	ANALYSIS	DISPOSITION
Calcium	<= 0.005 %	<0.005 %	PASS
Chloride	<= 0.005 %	0.002 %	PASS
Heavy Metals	<= 0.002 %	<0.002 %	PASS
Iron	<= 0.001 %	<0.001 %	PASS
Magnesium	<= 0.002 %	<0.002 %	PASS
Mercury	<= 0.1 ppm	<0.1 ppm	PASS
Nickel	<= 0.001 %	<0.001 %	PASS
Nitrogen Compounds	<= 0.001 %	<0.001 %	PASS
Phosphate	<= 0.001 %	<0.001 %	PASS
Potassium	<= 0.02 %	<0.02 %	PASS
Purity	>= 97.0 %	99.2 %	PASS
Sodium Carbonate	<= 1.0 %	0.5 %	PASS
Sulfate	<= 0.003 %	<0.003 %	PASS

Internal ID #: 710

Signature

We certify that this batch conforms to the specifications listed.

This document has been electronically produced and is valid without a signature.

Leona Edwardson, Quality Control Sr. Manager - Solon
VWR Chemicals, LLC.
28600 Fountain Parkway, Solon OH 44139 USA

Additional Information

Analysis may have been rounded to significant digits in specification limits.

Product meets analytical specifications of the grades listed.

Certificate of Analysis

Sodium Hydroxide (Pellets)

Material: **0583**

Grade: **ACS GRADE**

Batch Number: **23B1556310**

Chemical Formula:	NaOH	Manufacture Date:	12/14/2022
Molecular Weight:	40	Expiration Date:	12/31/2025
CAS #:	1310-73-2		
Appearance:		Storage:	Room Temperature

Pellets

Spec Set: 0583ACS

Internal ID #: 710

Signature

We certify that this batch conforms to the specifications listed.

This document has been electronically produced and is valid without a signature.

Leona Edwardson, Quality Control Sr. Manager - Solon
VWR Chemicals, LLC.
28600 Fountain Parkway, Solon OH 44139 USA

Additional Information

Analysis may have been rounded to significant digits in specification limits.

Product meets analytical specifications of the grades listed.

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Certificate of Analysis

Iodine (Iodine-Iodide), 0.0250 Normal (N/40), 1 mL = 0.4008 mg S^{2-}

Lot Number: 2405D89 **Product Number:** 3975

Manufacture Date: MAY 10, 2024
Expiration Date: MAY 2025

Name	CAS#	Grade
Water	7732-18-5	ACS/ASTM/USP/EP
Potassium Iodide	7681-11-0	ACS
Iodine	7553-56-2	ACS

Test	Specification	Result	NIST SRM#
Appearance	Dark brown liquid	Passed	
Assay (vs. Sodium Thiosulfate/Starch)	0.02498-0.02502 N at 20°C	0.02502 N at 20°C	136

Specification	Reference
Standard Iodine Solution, 0.0250 N	APHA (4500-S2- F)
Iodine Solution (approximately 0.025 N)	EPA (SW-846) (9031)
Standard Iodine Solution, 0.0250 N	EPA (376.1)
Iodine Solution (approximately 0.025 N)	EPA (SW-846) (9034)

Volumetric glassware complies with Class A tolerance requirements of ASTM E 288 and NIST Circular 434; it is calibrated before first use and recalibrated regularly in accordance with ASTM E 542 and NIST Procedure NBSIR 74-461. Balances are calibrated regularly with weights certified traceable to the NIST national mass standard. Thermometers and temperature probes are calibrated before first use and recalibrated regularly with a thermometer traceable to NIST standards. All products are prepared according to master documents that assure manufacture according to validated methods. Batch records document raw material traceability and production and testing history for each lot manufactured.

Part Number	Size / Package Type	Shelf Life (Unopened Container)
3975-1	4 L amber glass	12 months
3975-16	500 mL amber glass	12 months
3975-32	1 L amber glass	12 months

Recommended Storage: 15°C - 30°C (59°F - 86°F)

Jose Pena (05/10/2024)
Operations Manager

This test report shall not be reproduced, except in full, without the written approval of Ricca Chemical Company.

Certificate of Analysis List

For request number 2018129

Catalog Number Entered	Lot Number Entered	Related Catalog Number	Related Lot Code	Description
2659949	4151	N/A	N/A	StablCal|sup|TS|sup Standard, 10 NTU

Total Enclosures: 1

HACH COMPANY

P.O.Box 389
Loveland, CO 80539
(970) 669-3050

An ISO 9001 Certified Company

Certificate of Analysis

COMMODITY:**StablCal|sup|TS|sup Standard, 10 NTU**
COMMODITY NUMBER: **2659949** MANUFACTURE DATE: **6/4/2024** DATE OF ANALYSIS: **6/7/2024**
LOT NUMBER: **A4151**

TEST	*SPECIFICATIONS*	*RESULTS*
Turbidity	9.5 to 10.5 NTU	9.99 NTU

The expiration date is May 2026

Formazin and StablCal® solutions provided by Hach are not NIST traceable because the NIST does not carry turbidity standards. However, the use of Formazin and StablCal® as used in Hach method 8195 are accepted by the EPA as a primary standard to be used in the calibration of turbidity instruments.

Certified by Scott Als

Scott Als
Analytical Services Chemist

BEANTOWN CHEMICAL

Certificate of Analysis

Catalog Number	123945
Product Description	Potassium nitrate, ACS, 99.0% min.
CAS Number	7757-79-1
Lot Number	50082064

Test Results

	Specifications	Results
Assay	≥99.0%	99.35%
Appearance	Colorless to white crystalline powder	Conforms
pH of a 5% solution	4.5-8.5 at 25°C	6.21
Insoluble Matter	≤0.005%	0.003%
Chloride (Cl)	≤0.002%	0.001%
Iodate (IO_3)	≤5 ppm	<3 ppm
Nitrite (NO_2)	≤0.001%	0.0008%
Phosphate (PO_4)	≤5 ppm	<3 ppm
Sulfate (SO_4)	≤0.003%	0.002%
Heavy Metals (as Pb)	≤5 ppm	<3 ppm
Iron (Fe)	≤3 ppm	<2 ppm
Calcium (Ca)	≤0.005%	<0.004%
Magnesium (Mg)	≤0.002%	0.001%
Sodium (Na)	≤0.005%	<0.0025%
Solubility	10% solution in water is clear and colorless	Conforms

Suggested retest date November 2027

This certificate of analysis has been electronically generated and is valid without a signature.

BEANTOWN CHEMICAL CORPORATION, 9 SAGAMORE PARK ROAD, HUDSON NH 03051

WWW.BEANTOWNCHEM.COM TOLL FREE: 1-844-891-6306 EMAIL: TECHNICAL@BEANTOWNCHEM.COM

RICCA CHEMICAL COMPANY®
1490 Lammers Pike
Batesville, IN 47006
http://www.riccachemical.com
1-888-GO-RICCA
customerservice@riccachemical.com

W3120 Received on 7/15/24 by IZ

Certificate of Analysis

Sodium Hypochlorite Solution, 5% available Chlorine

Lot Number: 4403M08 **Product Number:** 7495.5

Manufacture Date: MAR 25, 2024
Expiration Date: SEP 2024

This solution is subject to slow decomposition upon exposure to air. Keep container tightly capped. Refrigeration may improve stability. When used in the Phenate method for Ammonia, APHA recommends replacing this solution about every 2 months.

Name	CAS#	Grade
Water	7732-18-5	Commercial
Sodium Hypochlorite	7681-52-9	Commercial

Test	Specification	Result	NIST SRM#
Appearance	Colorless to greenish-yellow liquid	Passed	
Assay (vs. Sodium Thiosulfate/Starch)	4.75-5.25 % (w/w) Cl_2	5.13 % (w/w) Cl_2	136

Specification	Reference
Sodium Hypochlorite, 5%	APHA (4500-NH3 F)
Sodium Hypochlorite	ASTM (D 4785)

Volumetric glassware complies with Class A tolerance requirements of ASTM E 288 and NIST Circular 434; it is calibrated before first use and recalibrated regularly in accordance with ASTM E 542 and NIST Procedure NBSIR 74-461. Balances are calibrated regularly with weights certified traceable to the NIST national mass standard. Thermometers and temperature probes are calibrated before first use and recalibrated regularly with a thermometer traceable to NIST standards. All products are prepared according to master documents that assure manufacture according to validated methods. Batch records document raw material traceability and production and testing history for each lot manufactured.

Part Number	Size / Package Type	Shelf Life (Unopened Container)
7495.5-1	4 L black poly	6 months
7495.5-16	500 mL amber poly	6 months

Recommended Storage: 15°C - 30°C (59°F - 86°F)

Paul Brandon (03/25/2024)
Production Manager
This document is designed to comply with ISO Guide 31 "Reference Materials -- Contents of Certificates and Labels."

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Loveland, CO 80539
(970) 669-3050

An ISO 9001 Certified Company

Certificate of Analysis

PRODUCT: Chlorine Solution Ampule 50-75 mg/l

PRODUCT NUMBER: 1426810

LOT NUMBER: A4144

MANUFACTURE DATE: 05/28/2024

DATE OF ANALYSIS: 05/30/2024

TEST	SPECIFICATIONS	RESULTS
Standard Deviation for the ampules sampled	0 to 0.4 mg/L	0.10 mg/L
Mean Chlorine Concentration ampules sampled.	50 to 75 mg/L	60.9 mg/L

The expiration date is Jan 2026

Certified by: Scott Als

Analytical Services Chemist

Loveland, CO 80539
(970) 669-3050

An ISO 9001 Certified Company

Certificate of Analysis

PRODUCT: Chlorine Solution Ampule 50-75 mg/l

PRODUCT NUMBER: 1426810

LOT NUMBER: A4166

MANUFACTURE DATE: 06/24/2024

DATE OF ANALYSIS: 06/25/2024

TEST	SPECIFICATIONS	RESULTS
Standard Deviation for the ampules sampled	0 to 0.4 mg/L	0.10 mg/L
Mean Chlorine Concentration ampules sampled.	50 to 75 mg/L	61.9 mg/L

The expiration date is Feb 2026

Certified by: Scott Als

Analytical Services Chemist

spectrum® CHEMICAL MFG CORP

Certificate Of Analysis

Item Number	ED150	Lot Number	2ND0156
Item	Edetate Disodium, Dihydrate, USP	CAS Number	6381-92-6
Molecular Formula	$C_{10}H_{14}N_2Na_2O_8 \cdot 2H_2O$	Molecular Weight	372.24

TEST	SPECIFICATION		RESULT
	MIN	MAX	
ASSAY (DRIED BASIS)	99.0	101.0 %	99.5 %
pH OF A 5% SOLUTION @ 25°C	4.0	6.0	4.6
LOSS ON DRYING	8.7	11.4 %	8.90 %
CALCIUM (Ca)	NO PRECIPITATE IS FORMED		NO PRECIPITATE IS FORMED
ELEMENTAL IMPURITIES:			.
NICKEL (Ni)	AS REPORTED		<0.3 ppm
CHROMIUM (Cr)	AS REPORTED		<0.3 ppm
NITRILOTRIACETIC ACID[$n[(HOCOCH_2)_3N]$]		0.1 %	<0.10 %
IDENTIFICATION A	MATCHES REFERENCE		MATCHES REFERENCE
IDENTIFICATION B	RED COLOR IS DISCHARGED, LEAVING A YELLOWISH SOLUTION		RED COLOR IS DISCHARGED, LEAVING A YELLOWISH SOLUTION
IDENTIFICATION C	MEETS THE REQUIREMENTS FOR SODIUM		MEETS THE REQUIREMENTS FOR SODIUM
CERTIFIED HALAL			CERTIFIED HALAL
EXPIRATION DATE			10-JUL-2026
DATE OF MANUFACTURE			11-JUL-2023
APPEARANCE			WHITE CRYSTALLINE POWDER
RESIDUAL SOLVENTS		AS REPORTED	NO RESIDUAL SOLVENTS PRESENT
MONOGRAPH EDITION			USP 2024

Certificate of Analysis Results Entered By:

CACEVEDO
Charmian Acevedo
22-MAY-24 08:12:30

Certificate of Analysis Results Approved By:

GHERRERA
Genaro Herrera
22-MAY-24 12:32:01

Spectrum Chemical Mfg Corp
755 Jersey Avenue
New Brunswick 08901 NJ

All pharmaceutical ingredients are tested using current edition of applicable pharmacopeia.

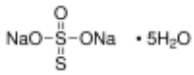
Read and understand label and SDS before handling any chemicals. All Spectrum's chemicals are for manufacturing, processing, repacking or research purposes by experienced personnel only. It is the customer's responsibility to provide adequate hazardous material training and ensure that appropriate Personal Protective Equipment (PPE) is used before handling any chemical.

The Elemental Impurities standards implemented by USP and other Pharmaceutical Compendia reflect a growing understanding of the toxicology of trace levels of elemental impurities that can remain in drug substances originating from either raw materials or manufacturing processes. Identifying and quantifying impurities can be critical to predicting the best possible patient outcomes. Elemental Impurities has been a requirement of all products meeting USP/NF, EP and BP monographs since January 1, 2018. More information can be found in USP sections <232> Elemental Impurities – Limits and <233> Elemental Impurities – Procedures. Data for drug substances furnished by Spectrum Chemical Mfg. Corp can be used to ensure that patient daily exposures by oral administration to the selected elements are not exceeded in the formulation of pharmaceutical products.

3050 Spruce Street, Saint Louis, MO 63103, USA
Website: www.sigmaaldrich.com
Email USA: techserv@sial.com
Outside USA: eurtechserv@sial.com

Certificate of Analysis

Product Name:
Sodium thiosulfate pentahydrate - ACS reagent, ≥99.5%



Product Number:	**217247**
Batch Number:	**MKCV5080**
Brand:	SIGALD
CAS Number:	10102-17-7
MDL Number:	MFCD00149186
Formula:	Na2O3S2 · 5H2O
Formula Weight:	248.18 g/mol
Quality Release Date:	10 JAN 2024
Recommended Retest Date:	JAN 2029

Test	Specification	Result
Appearance (Color)	Colorless or White	White
Appearance (Form)	Powder or Crystals or Pellets	Crystals
ICP Major Analysis Confirms Sodium and Sulfur Components	Confirmed	Confirmed
Titration by Iodine	99.5 - 101.0 %	99.8 %
pH c = 5%; Water; At 25 Deg C	6.0 - 8.4	7.2
Insoluble Matter c = 10%; Water	≤ 0.005 %	0.003 %
Nitrogen Compounds	≤ 0.002 %	< 0.002 %
Sulfate & Sulfite (as SO4)	≤ 0.1 %	< 0.1 %
Sulfide	Pass	Pass
Meets ACS Requirements	Current ACS Specification	Conforms
Recommended Retest Period 5 Years	----------	----------

Larry Coers, Director
Quality Control
Milwaukee, WI US

Sigma-Aldrich warrants, that at the time of the quality release or subsequent retest date this product conformed to the information contained in this publication. The current Specification sheet may be available at Sigma-Aldrich.com. For further inquiries, please contact Technical Service. Purchaser must determine the suitability of the product for its particular use. See reverse side of invoice or packing slip for additional terms and conditions of sale.

LabChem
Part of TCP Analytical Group
Jackson's Pointe Commerce Park- Building 1000
1010 Jackson's Pointe Court, Zelienople, PA 16063

Certificate of Analysis

Cyanide Standard 1000 ppm (1ml = 1mg CN)

Product Code: **LC13545**

Manufacture Date: August 01, 2024

Lot Number: **44080060**

Expiration Date: January 30, 2025

Test	Specification	Result
Appearance (clarity)	clear solution	clear solution
Appearance (color)	colorless	colorless
Concentration (CN)	0.990 - 1.010mg/mL	1.008mg/mL
Concentration (CN)	990 - 1,010ppm	1,008ppm
Traceable to NIST SRM	Report	999b

Intended Use *- Product is intended for use in manufacturing procedures and laboratory procedures and protocols.*

Storage Information *- Unless noted on the product label, store the product under normal lab conditions in its tightly closed, original container. Do not pipet directly from the container or return unused portions to the container.*

Instructions for Handling and Use - *Please refer to the associated product label and Safety Data Sheet (SDS) for information regarding safety and handling of this product.*

Preparation - *All products are manufactured and tested according to established, documented procedures and methodology. Production documentation records manufacturing data, raw material traceability and testing history on a per lot basis. Balances, thermometers, and glassware are calibrated before first use and on a regular schedule with references traceable to NIST standards.*

The suffix of the product code may differ from what is on your product label. The suffix will designate the size and be associated with a numeric digit(s). Visit LabChem.com for more information

Suffix	1	2	3/3S/36/36S	4/4C	5	6	7	8	9	20	44	200	246	486
Size	500mL or g	1L or 1kg	2.5L/2.5L Coated/6x2.5L/6x2.5L Coated	4L	20L	10L	125mL	25g	100g	20x20mL	4x4L	200L	24x6mL	48x6mL

Michael Monteleone

Michael Monteleone
Chemistry Supervisor - Quality Control

ISO9001:2015 Registration #0306-01

W3139 Received on 9/9/24 by IZ

Product No.:	A12044
Product:	Chloramine-T trihydrate, 98%
Lot No.:	10239484

Appearance:	White powder
Melting Point:	166°C(dec)
Assay (Iodometric titration):	100.5%
Identification (FTIR):	Conforms

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Products are processed under ISO 9001:2015 quality management systems and samples are tested for conformance to the noted specifications. Certain data may have been supplied by third parties. We disclaim the implied warranties of merchantability and fitness for a particular purpose, and the accuracy of third party data or information associated with the product. Products are for research and development use only. Products are not for direct administration to humans or animals. It is the responsibility of the final formulator or end user to determine suitability, and to qualify and/or validate each product for its intended use.

SHIPPING DOCUMENTS

phenova® Certified Reference Materials | A Phenomenex® Company

Packing List

Date	Order #
09/03/2024	318988

6390 Joyce Dr., #100
Golden, CO 80403

Tel: +1-303-940-0033
Fax: +1-303-940-0043
info@phenova.com
www.phenova.com

For terms and conditions of your order, please visit:
www.phenova.com/home/termsofsale

Ship To

Chemtech - NJ
ATTN: Sohil Jodhani
284 Sheffield St., #1
Mountainside, NJ 07092
USA

Received by: SJ
9/5/2024
9:50

Customer PO #	Terms	PT Acct #	Customer #	Ship Via	F.O.B.
240802-01	Net 30	ZCM-100	1500470	FedEx 2nd Day	Golden, CO

Qty Ordered	Qty Shipped	Qty Backorder	Part Number	Part Description	Study Number	Lot Number
			PT-TMSET-WP	WP Trace Metals Set : (TM1, HG and SNTI)		
1	1	0	PT-TM1-WP	WP Trace Metals 1	WP0924	8259-04
1	1	0	PT-HG-WP	WP Mercury	WP0924	8259-05
1	1	0	PT-SNTI-WP	WP Tin & Titanium	WP0924	8259-38
1	1	0	PT-CR6-WP	WP Hexavalent Chromium	WP0924	8259-06
1	1	0	PT-DEM-WP	WP Demand	WP0924	8259-07
			PT-MINSET-WP	WP Minerals Set : (MIN1, MIN2 and COND)		
1	1	0	PT-MIN1-WP	WP Minerals 1 Only	WP0924	8259-08
1	1	0	PT-MIN2-WP	WP Minerals 2 Only	WP0924	8259-102
1	1	0	PT-COND-WP	WP Conductivity Only	WP0924	8259-72
1	1	0	PT-SOL-WP	WP Solids	WP0924	8259-09
			PT-NUTSET-WP	WP Nutrients Set : (NUT1, NUT2 and NUT3)		
1	1	0	PT-NUT1-WP	WP NUT1 Simple Nutrients Only	WP0924	8259-10
1	1	0	PT-NUT2-WP	WP NUT2 - Complex Nutrients	WP0924	8259-11
1	1	0	PT-NUT3-WP	WP NUT3 - Nitrite Only	WP0924	8259-69
1	1	0	PT-OGR1L-WP	WP Oil and Grease 1L	WP0924	8259-103
1	1	0	PT-CL-WP	WP Residual Chlorine	WP0924	8259-13
1	1	0	PT-PH-WP	WP pH	WP0924	8259-15
1	1	0	PT-CN-WP	WP Cyanide	WP0924	8259-14
1	1	0	PT-PHEN-WP	WP Phenolics	WP0924	8259-16

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Packing List

Date	Order #
09/03/2024	318988

6390 Joyce Dr., #100
Golden, CO 80403

Tel: +1-303-940-0033
Fax: +1-303-940-0043
info@phenova.com
www.phenova.com

For terms and conditions of your order, please visit:
www.phenova.com/home/termsofsale

Ship To

Received by: SJ
9/5/2024
9:50

Chemtech - NJ
ATTN: Sohil Jodhani
284 Sheffield St., #1
Mountainside, NJ 07092
USA

Customer PO #	Terms	PT Acct #	Customer #	Ship Via	F.O.B.
240802-01	Net 30	ZCM-100	1500470	FedEx 2nd Day	Golden, CO

Qty Ordered	Qty Shipped	Qty Backorder	Part Number	Part Description	Study Number	Lot Number
1	1	0	PT-S2-WP	WP Sulfide	WP0924	8259-22
1	1	0	PT-SSOL-WP	WP Settleable Solids	WP0924	8259-17
1	1	0	PT-VSOL-WP	WP Volatile Solids	WP0924	8259-18
1	1	0	PT-TURB-WP	WP Turbidity	WP0924	8259-20
1	1	0	PT-SIO2-WP	WP Silica	WP0924	8259-21
1	1	0	PT-COL-WP	WP Color	WP0924	8259-51
1	1	0	PT-VOA-WP	WP Volatiles	WP0924	8259-26
1	1	0	PT-BN-WP	WP Base Neutrals	WP0924	8259-27
1	1	0	PT-ACIDS-WP	WP Acids	WP0924	8259-28
1	1	0	PT-PEST-WP	WP Pesticides	WP0924	8259-29
1	1	0	PT-CHLR-WP	WP Chlordane	WP0924	8259-30
1	1	0	PT-TXP-WP	WP Toxaphene	WP0924	8259-31
1	1	0	PT-PCBW-WP	WP PCBs in Water	WP0924	8259-32
1	1	0	PT-HERB-WP	WP Herbicides	WP0924	8259-36
1	1	0	RR-TPH1L-WP	WP TPH 1L	R39151	R39151-104
1	1	0	RR-PAH-WP	WP PAH-Low Level	R39151	R39151-37
1	1	0	RR-GAS-WP	WP Gasoline Range Organics	R39151	R39151-62
1	1	0	RR-DIES-WP	WP Diesel Range Organics	R39151	R39151-63
1	1	0	RR-8011-WP	WP EDB/DBCP/TCP	R39151	R39151-98
1	1	0	RR-TRIAZINE-WP	WP Triazine Pesticides	R39151	R39151-108

Laboratory Certification

Certified By	License No.
CAS EPA CLP Contract	68HERH20D0011
Connecticut	PH-0830
DOD ELAP (ANAB)	L2219
Maine	2024021
Maryland	296
New Hampshire	255424 Rev 1
New Jersey	20012
New York	11376
Pennsylvania	68-00548
Soil Permit	525-24-234-08441
Texas	T104704488