Alliance TECHNICAL GROUP

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

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LAB CHRONICLE

OrderID:	Q1505	**OrderDate:**	3/6/2025 10:20:04 AM
Client:	Alliance Technical Group, LLC - Newark	**Project:**	NJ Waste Water PT
Contact:	Mohammad Ahmed	**Location:**	QA Office

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q1505-01	**PT-CR6-WP**	**WATER**			**03/03/25 08:00**			**03/05/25**
			Hexavalent Chromium	7196A			03/20/25 15:14	
Q1505-02	**PT-CR6-WP**	**WATER**			**03/03/25 08:00**			**03/05/25**
			Hexavalent Chromium	SM3500-Cr B			03/19/25 16:54	
Q1505-03	**PT-DEM-WP**	**WATER**			**03/03/25 08:00**			**03/05/25**
			BOD5	SM5210 B			03/12/25 15:45	
			CBOD5	SM5210 B			03/12/25 15:45	
			COD	SM5220 D			03/21/25 13:42	
			TOC	SM5310B			03/19/25 11:24	
Q1505-03DL	**PT-DEM-WPDL**	**WATER**			**03/03/25 08:00**			**03/05/25**
			TOC	SM5310B			03/19/25 11:49	
Q1505-04	**PT-DEM-WP**	**WATER**			**03/03/25 08:00**			**03/05/25**
			TOC	9060A			03/19/25 11:24	
Q1505-04DL	**PT-DEM-WPDL**	**WATER**			**03/03/25 08:00**			**03/05/25**

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			TOC	9060A		03/19/25 11:49	
Q1505-05	**PT-MIN1-WP**	**WATER**			**03/03/25 08:00**		**03/05/25**
			Alkalinity	SM2320 B		03/18/25 09:40	
			Anions Group1	300.0		03/11/25 12:10	
			Chloride	SM4500-CL C		03/12/25 12:13	
			Sulfate	SM 4500-SO4E		03/26/25 11:15	
Q1505-05DL	**PT-MIN1-WPDL**	**WATER**			**03/03/25 08:00**		**03/05/25**
			Anions Group1	300.0		03/11/25 13:15	
			Sulfate	SM 4500-SO4E		03/26/25 11:18	
Q1505-05DL 2	**PT-MIN1-WPDL2**	**WATER**			**03/03/25 08:00**		**03/05/25**
			Anions Group1	300.0		03/11/25 13:36	
Q1505-06	**PT-MIN1-WP**	**WATER**			**03/03/25 08:00**		**03/05/25**
			Anions Group1	9056A		03/11/25 12:10	
			Sulfate	9038		03/26/25 12:20	
Q1505-06DL	**PT-MIN1-WPDL**	**WATER**			**03/03/25 08:00**		**03/05/25**
			Anions Group1	9056A		03/11/25 13:15	
			Sulfate	9038		03/26/25 12:23	
Q1505-06DL 2	**PT-MIN1-WPDL2**	**WATER**			**03/03/25 08:00**		**03/05/25**

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			Anions Group1	9056A			03/11/25 13:36	
Q1505-07	**PT-COND-WP**	**Water**			**03/03/25 08:00**			**03/05/25**
			Conductance	SM2510 B			03/13/25 13:10	
Q1505-08	**PT-COND-WP**	**Water**			**03/03/25 08:00**			**03/05/25**
			Conductance	120.1			03/13/25 13:10	
Q1505-09	**PT-COND-WP**	**Water**			**03/03/25 08:00**			**03/05/25**
			Conductance	9050A			03/13/25 13:10	
Q1505-10	**PT-SOL-WP**	**WATER**			**03/03/25 08:00**			**03/05/25**
			TDS	SM2540 C			04/08/25 12:30	
			TS	SM2540 B			04/08/25 11:00	
			TSS	SM2540 D			04/08/25 11:00	
Q1505-11	**PT-NUT1-WP**	**WATER**			**03/03/25 08:00**			**03/05/25**
			Ammonia	SM4500-NH3		03/12/25	03/12/25 15:36	
			Anions Group2	300.0			03/11/25 12:32	
Q1505-11DL	**PT-NUT1-WPDL**	**WATER**			**03/03/25 08:00**			**03/05/25**
			Ammonia	SM4500-NH3		03/12/25	03/12/25 16:25	
			Anions Group2	300.0			03/11/25 13:58	
Q1505-12	**PT-NUT1-WP**	**WATER**			**03/03/25 08:00**			**03/05/25**

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			Anions Group2	9056A			03/11/25 12:32	
			Phosphorus-Ortho	SM4500-P E			03/11/25 12:32	
Q1505-12DL	**PT-NUT1-WPDL**	**WATER**			**03/03/25 08:00**			**03/05/25**
			Anions Group2	9056A			03/11/25 13:58	
			Phosphorus-Ortho	SM4500-P E			03/11/25 13:58	
			Phosphorus-Ortho	SM4500-P E			03/14/25 15:21	
Q1505-13	**PT-NUT2-WP**	**WATER**			**03/03/25 08:00**			**03/05/25**
			Phosphorus-Total	365.3		03/14/25	03/14/25 14:16	
			TKN	SM4500-N Org C-11 plus NH3 B plus G-11		03/19/25	03/19/25 15:20	
Q1505-13DL	**PT-NUT2-WPDL**	**WATER**			**03/03/25 08:00**			**03/05/25**
			Phosphorus-Total	365.3		03/14/25	03/14/25 14:19	
			TKN	SM4500-N Org C-11 plus NH3 B plus G-11		03/19/25	03/19/25 16:13	
Q1505-14	**PT-NUT3-WP**	**WATER**			**03/03/25 08:00**			**03/05/25**
			Nitrite	SM4500-NO2 B			03/11/25 12:13	
Q1505-14DL	**PT-NUT3-WPDL**	**WATER**			**03/03/25 08:00**			**03/05/25**
			Nitrite	SM4500-NO2 B			03/11/25 12:13	

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Q1505-15	**PT-NUT3-WP**	**WATER**			**03/03/25 08:00**			**03/05/25**
			Anions Group4	300.0			03/11/25 12:53	
Q1505-16	**PT-NUT3-WP**	**WATER**			**03/03/25 08:00**			**03/05/25**
			Anions Group5	9056A			03/11/25 12:53	
Q1505-17	**PT-ORG1L-WP**	**WATER**			**03/03/25 08:00**			**03/05/25**
			Oil and Grease	1664A			03/14/25 10:00	
Q1505-18	**RR-TPH1L-WP**	**WATER**			**03/03/25 08:00**			**03/05/25**
			TPH	1664A			03/14/25 10:30	
Q1505-19	**PT-CL-WP**	**Water**			**03/03/25 08:00**			**03/05/25**
			Residual Chlorine	SM4500 Cl G			03/19/25 11:21	
Q1505-20	**PT-PH-WP**	**WATER**			**03/03/25 08:00**			**03/05/25**
			pH	9040C			03/11/25 12:50	
Q1505-21	**PT-PH-WP**	**WATER**			**03/03/25 08:00**			**03/05/25**
			pH	SM 4500-H B			03/11/25 12:50	
Q1505-22	**PT-CN-WP**	**WATER**			**03/03/25 08:00**			**03/05/25**
			Cyanide	SM4500-CN C,E		03/18/25	03/18/25 14:22	
Q1505-23	**PT-CN-WP**	**WATER**			**03/03/25 08:00**			**03/05/25**

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			Cyanide	9012B		03/18/25	03/18/25 12:29	
Q1505-24	**PT-CN-WP**	**WATER**			**03/03/25 08:00**			**03/05/25**
			Cyanide	9014		03/18/25	03/18/25 13:32	
Q1505-25	**PT-PHEN-WP**	**WATER**			**03/03/25 08:00**			**03/05/25**
			Phenolics	9065		03/17/25	03/17/25 16:30	
Q1505-26	**PT-PHEN-WP**	**WATER**			**03/03/25 08:00**			**03/05/25**
			Phenolics	420.1		03/17/25	03/17/25 15:33	
Q1505-27	**PT-COL-WP**	**Water**			**03/03/25 08:00**			**03/05/25**
			Apparent Color	SM2120 B			03/19/25 09:35	
Q1505-28	**PT-S2-WP**	**WATER**			**03/03/25 08:00**			**03/05/25**
			Sulfide	SM4500 S EorF		03/20/25	03/20/25 11:16	
Q1505-29	**PT-S2-WP**	**WATER**			**03/03/25 08:00**			**03/05/25**
			Sulfide	9034		03/20/25	03/20/25 11:26	
Q1505-30	**PT-SSOL-WP**	**Water**			**03/03/25 08:00**			**03/05/25**
			Settleable Solids	SM2540 F			03/11/25 11:15	
Q1505-31	**PT-VSOL-WP**	**WATER**			**03/03/25 08:00**			**03/05/25**
			TVS	160.4			03/13/25 16:00	

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Q1505-32	**PT-VSOL-WP**	**WATER**			**03/03/25 08:00**		**03/05/25**
			TVS	SM2540 G		03/13/25 16:00	
Q1505-33	**PT-TURB-WP**	**Water**			**03/03/25 08:00**		**03/05/25**
			Turbidity	SM2130 B		03/27/25 11:20	
Q1505-34	**PT-TURB-WP**	**Water**			**03/03/25 08:00**		**03/05/25**
			Turbidity	180.1		03/27/25 11:20	

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SAMPLE DATA

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Report of Analysis

Client:	Alliance Technical Group, LLC - Newark	Date Collected:	03/03/25 08:00
Project:	NJ Waste Water PT	Date Received:	03/05/25
Client Sample ID:	PT-CR6-WP	SDG No.:	Q1505
Lab Sample ID:	Q1505-01	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Dissolved Hexavalent Chromium	0.54		1	0.0030	0.010	mg/L		03/20/25 15:14	7196A

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:	Alliance Technical Group, LLC - Newark	Date Collected:	03/03/25 08:00
Project:	NJ Waste Water PT	Date Received:	03/05/25
Client Sample ID:	PT-CR6-WP	SDG No.:	Q1505
Lab Sample ID:	Q1505-02	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Dissolved Hexavalent Chromium	0.54		1	0.0030	0.010	mg/L		03/19/25 16:54	SM 3500-Cr B-11

Comments:

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Report of Analysis

Client:	Alliance Technical Group, LLC - Newark	Date Collected:	03/03/25 08:00
Project:	NJ Waste Water PT	Date Received:	03/05/25
Client Sample ID:	PT-DEM-WP	SDG No.:	Q1505
Lab Sample ID:	Q1505-03	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
BOD5	79.8		1	0.20	2.00	mg/L		03/12/25 15:45	SM 5210 B-16
CBOD5	74.8		1	0.20	2.00	mg/L		03/12/25 15:45	SM 5210 B-16
COD	138		1	1.50	10.0	mg/L		03/21/25 13:42	SM 5220 D-11
TOC	64.4	OR	1	0.35	1.00	mg/L		03/19/25 11:24	SM 5310 B-14

Comments:

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Report of Analysis

Client:	Alliance Technical Group, LLC - Newark	Date Collected:	03/03/25 08:00
Project:	NJ Waste Water PT	Date Received:	03/05/25
Client Sample ID:	PT-DEM-WPDL	SDG No.:	Q1505
Lab Sample ID:	Q1505-03DL	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
TOC	52.7	D	5	1.80	5.00	mg/L		03/19/25 11:49	SM 5310 B-14

Comments:

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Report of Analysis

Client:	Alliance Technical Group, LLC - Newark	Date Collected:	03/03/25 08:00
Project:	NJ Waste Water PT	Date Received:	03/05/25
Client Sample ID:	PT-DEM-WP	SDG No.:	Q1505
Lab Sample ID:	Q1505-04	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
TOC	64.4	OR	1	0.40	1.00	mg/L		03/19/25 11:24	9060A

Comments:

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Report of Analysis

Client:	Alliance Technical Group, LLC - Newark	Date Collected:	03/03/25 08:00
Project:	NJ Waste Water PT	Date Received:	03/05/25
Client Sample ID:	PT-DEM-WPDL	SDG No.:	Q1505
Lab Sample ID:	Q1505-04DL	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
TOC	52.7	D	5	2.00	5.00	mg/L		03/19/25 11:49	9060A

Comments:

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Report of Analysis

Client:	Alliance Technical Group, LLC - Newark	Date Collected:	03/03/25 08:00
Project:	NJ Waste Water PT	Date Received:	03/05/25
Client Sample ID:	PT-MIN1-WP	SDG No.:	Q1505
Lab Sample ID:	Q1505-05	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Alkalinity	344		1	1.00	2.00	mg/L		03/18/25 09:40	SM 2320 B-11
Bromide	9.10		1	0.034	2.00	mg/L		03/11/25 12:10	300.0
Chloride	279	OR	1	0.011	0.60	mg/L		03/11/25 12:10	300.0
Fluoride	3.00		1	0.057	0.40	mg/L		03/11/25 12:10	300.0
Sulfate	97.6	OR	1	0.032	3.00	mg/L		03/11/25 12:10	300.0
Chloride	188		1	1.27	5.00	mg/L		03/12/25 12:13	SM 4500-Cl C-11
Sulfate	116	OR	1	0.43	5.00	mg/L		03/26/25 11:15	SM 4500-SO4E

Comments: The alkalinity to pH 4.46=344 mg CaCO3/L

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Report of Analysis

Client:	Alliance Technical Group, LLC - Newark	Date Collected:	03/03/25 08:00
Project:	NJ Waste Water PT	Date Received:	03/05/25
Client Sample ID:	PT-MIN1-WPDL	SDG No.:	Q1505
Lab Sample ID:	Q1505-05DL	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Chloride	205	OR	10	0.11	6.00	mg/L		03/11/25 13:15	300.0
Sulfate	90.3	D	10	0.32	30.0	mg/L		03/11/25 13:15	300.0
Sulfate	92.3	D	5	2.15	25.0	mg/L		03/26/25 11:18	SM 4500-SO4E

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Report of Analysis

Client:	Alliance Technical Group, LLC - Newark	Date Collected:	03/03/25 08:00
Project:	NJ Waste Water PT	Date Received:	03/05/25
Client Sample ID:	PT-MIN1-WPDL2	SDG No.:	Q1505
Lab Sample ID:	Q1505-05DL2	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Chloride	193	D	50	0.55	30.0	mg/L		03/11/25 13:36	300.0

Comments:

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Report of Analysis

Client:	Alliance Technical Group, LLC - Newark	Date Collected:	03/03/25 08:00
Project:	NJ Waste Water PT	Date Received:	03/05/25
Client Sample ID:	PT-MIN1-WP	SDG No.:	Q1505
Lab Sample ID:	Q1505-06	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Bromide	9.10		1	0.034	2.00	mg/L		03/11/25 12:10	9056A
Chloride	279	OR	1	0.011	0.60	mg/L		03/11/25 12:10	9056A
Fluoride	3.00		1	0.057	0.40	mg/L		03/11/25 12:10	9056A
Sulfate	97.6	OR	1	0.032	3.00	mg/L		03/11/25 12:10	9056A
Sulfate	116	OR	1	0.45	5.00	mg/L		03/26/25 12:20	9038

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

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

Report of Analysis

Client:	Alliance Technical Group, LLC - Newark	Date Collected:	03/03/25 08:00
Project:	NJ Waste Water PT	Date Received:	03/05/25
Client Sample ID:	PT-MIN1-WPDL	SDG No.:	Q1505
Lab Sample ID:	Q1505-06DL	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Chloride	205	OR	10	0.11	6.00	mg/L		03/11/25 13:15	9056A
Sulfate	90.3	D	10	0.32	30.0	mg/L		03/11/25 13:15	9056A
Sulfate	89.0	D	5	2.25	25.0	mg/L		03/26/25 12:23	9038

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

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

Report of Analysis

Client:	Alliance Technical Group, LLC - Newark	Date Collected:	03/03/25 08:00
Project:	NJ Waste Water PT	Date Received:	03/05/25
Client Sample ID:	PT-MIN1-WPDL2	SDG No.:	Q1505
Lab Sample ID:	Q1505-06DL2	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Chloride	193	D	50	0.55	30.0	mg/L		03/11/25 13:36	9056A

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

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

Report of Analysis

Client:	Alliance Technical Group, LLC - Newark	Date Collected:	03/03/25 08:00
Project:	NJ Waste Water PT	Date Received:	03/05/25
Client Sample ID:	PT-COND-WP	SDG No.:	Q1505
Lab Sample ID:	Q1505-07	Matrix:	Water
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Conductance	336		1	0.91	2.00	umho/cm		03/13/25 13:10	SM 2510 B-11

Comments: Conductance Result is Corrected to 25°C

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

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

Report of Analysis

Client:	Alliance Technical Group, LLC - Newark	Date Collected:	03/03/25 08:00
Project:	NJ Waste Water PT	Date Received:	03/05/25
Client Sample ID:	PT-COND-WP	SDG No.:	Q1505
Lab Sample ID:	Q1505-08	Matrix:	Water
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Conductance	336		1	0.91	2.00	umho/cm		03/13/25 13:10	120.1

Comments: Conductance Result is Corrected to 25°C

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.
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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:	Alliance Technical Group, LLC - Newark	Date Collected:	03/03/25 08:00
Project:	NJ Waste Water PT	Date Received:	03/05/25
Client Sample ID:	PT-COND-WP	SDG No.:	Q1505
Lab Sample ID:	Q1505-09	Matrix:	Water
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Conductance	336		1	0.91	2.00	umho/cm		03/13/25 13:10	9050A

Comments: Conductance Result is Corrected to 25°C

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

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

Report of Analysis

Client:	Alliance Technical Group, LLC - Newark	Date Collected:	03/03/25 08:00
Project:	NJ Waste Water PT	Date Received:	03/05/25
Client Sample ID:	PT-SOL-WP	SDG No.:	Q1505
Lab Sample ID:	Q1505-10	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
TDS	281		1	1.00	10.0	mg/L		04/08/25 12:30	SM 2540 C-15
TS	351		1	1.00	5.00	mg/L		04/08/25 11:00	SM 2540 B-15
TSS	73.0		1	1.00	4.00	mg/L		04/08/25 11:00	SM 2540 D-15

Comments:

U = Not Detected
LOQ = Limit of Quantitation
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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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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:	Alliance Technical Group, LLC - Newark	Date Collected:	03/03/25 08:00
Project:	NJ Waste Water PT	Date Received:	03/05/25
Client Sample ID:	PT-NUT1-WP	SDG No.:	Q1505
Lab Sample ID:	Q1505-11	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Ammonia as N	3.10	OR	1	0.045	0.10	mg/L	03/12/25 10:05	03/12/25 15:36	SM 4500-NH3 B plus G-11
Nitrite	0.011	U	1	0.011	0.60	mg/L		03/11/25 12:32	300.0
Nitrate	21.2	OR	1	0.0034	0.50	mg/L		03/11/25 12:32	300.0
Orthophosphate as P	4.80		1	0.079	1.00	mg/L		03/11/25 12:32	300.0

Comments:

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LOQ = Limit of Quantitation
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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:	Alliance Technical Group, LLC - Newark	Date Collected:	03/03/25 08:00
Project:	NJ Waste Water PT	Date Received:	03/05/25
Client Sample ID:	PT-NUT1-WPDL	SDG No.:	Q1505
Lab Sample ID:	Q1505-11DL	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Ammonia as N	2.90	D	2	0.090	0.20	mg/L	03/12/25 10:05	03/12/25 16:25	SM 4500-NH3 B plus G-11
Nitrate	18.7	D	10	0.034	5.00	mg/L		03/11/25 13:58	300.0

Comments:

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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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OR = Over Range
N =Spiked sample recovery not within control limits

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Fax : 908 789 8922

Report of Analysis

Client:	Alliance Technical Group, LLC - Newark	Date Collected:	03/03/25 08:00
Project:	NJ Waste Water PT	Date Received:	03/05/25
Client Sample ID:	PT-NUT1-WP	SDG No.:	Q1505
Lab Sample ID:	Q1505-12	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		03/11/25 12:32	9056A
Nitrate	21.2	OR	1	0.0034	0.50	mg/L		03/11/25 12:32	9056A
Orthophosphate as P	4.80		1	0.079	1.00	mg/L		03/11/25 12:32	9056A

Comments:

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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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Fax : 908 789 8922

Report of Analysis

Client:	Alliance Technical Group, LLC - Newark	Date Collected:	03/03/25 08:00
Project:	NJ Waste Water PT	Date Received:	03/05/25
Client Sample ID:	PT-NUT1-WPDL	SDG No.:	Q1505
Lab Sample ID:	Q1505-12DL	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Nitrate	18.7	D	10	0.034	5.00	mg/L		03/11/25 13:58	9056A
Orthophosphate as P	5.40	JD	10	0.79	10.0	mg/L		03/11/25 13:58	9056A
Orthophosphate as P	4.62	D	10	0.040	0.50	mg/L		03/14/25 15:21	SM 4500-P E-11

Comments:

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N =Spiked sample recovery not within control limits

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Report of Analysis

Client:	Alliance Technical Group, LLC - Newark	Date Collected:	03/03/25 08:00
Project:	NJ Waste Water PT	Date Received:	03/05/25
Client Sample ID:	PT-NUT2-WP	SDG No.:	Q1505
Lab Sample ID:	Q1505-13	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Phosphorus, Total	1.16	OR	1	0.0050	0.050	mg/L	03/14/25 11:30	03/14/25 14:16	365.3
TKN	10.1	OR	1	0.11	0.50	mg/L	03/19/25 09:40	03/19/25 15:20	SM4500-N Org C-11 plus NH3 B plus G-11

Comments:

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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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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:	Alliance Technical Group, LLC - Newark	Date Collected:	03/03/25 08:00
Project:	NJ Waste Water PT	Date Received:	03/05/25
Client Sample ID:	PT-NUT2-WPDL	SDG No.:	Q1505
Lab Sample ID:	Q1505-13DL	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Phosphorus, Total	2.07	D	5	0.023	0.25	mg/L	03/14/25 11:30	03/14/25 14:19	365.3
TKN	9.90	D	2	0.22	1.00	mg/L	03/19/25 09:40	03/19/25 16:13	SM4500-N Org C-11 plus NH3 B plus G-11

Comments:

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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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OR = Over Range
N =Spiked sample recovery not within control limits

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Report of Analysis

Client:	Alliance Technical Group, LLC - Newark	Date Collected:	03/03/25 08:00
Project:	NJ Waste Water PT	Date Received:	03/05/25
Client Sample ID:	PT-NUT3-WP	SDG No.:	Q1505
Lab Sample ID:	Q1505-14	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Nitrite	2.30	OR	1	0.0018	0.012	mg/L		03/11/25 12:13	SM 4500-NO2 B-11

Comments:

U = Not Detected
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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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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,
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Report of Analysis

Client:	Alliance Technical Group, LLC - Newark	Date Collected:	03/03/25 08:00
Project:	NJ Waste Water PT	Date Received:	03/05/25
Client Sample ID:	PT-NUT3-WPDL	SDG No.:	Q1505
Lab Sample ID:	Q1505-14DL	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Nitrite	2.20	D	5	0.0090	0.060	mg/L		03/11/25 12:13	SM 4500-NO2 B-11

Comments:

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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:	Alliance Technical Group, LLC - Newark	Date Collected:	03/03/25 08:00
Project:	NJ Waste Water PT	Date Received:	03/05/25
Client Sample ID:	PT-NUT3-WP	SDG No.:	Q1505
Lab Sample ID:	Q1505-15	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Nitrite	2.20		1	0.011	0.60	mg/L		03/11/25 12:53	300.0

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

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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:	Alliance Technical Group, LLC - Newark	Date Collected:	03/03/25 08:00
Project:	NJ Waste Water PT	Date Received:	03/05/25
Client Sample ID:	PT-NUT3-WP	SDG No.:	Q1505
Lab Sample ID:	Q1505-16	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Nitrite	2.20		1	0.011	0.60	mg/L		03/11/25 12:53	9056A

Comments:

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

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Report of Analysis

Client:	Alliance Technical Group, LLC - Newark	Date Collected:	03/03/25 08:00
Project:	NJ Waste Water PT	Date Received:	03/05/25
Client Sample ID:	PT-ORG1L-WP	SDG No.:	Q1505
Lab Sample ID:	Q1505-17	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Oil and Grease	20.7		1	0.40	5.00	mg/L		03/14/25 10:00	1664A

Comments:

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284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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Report of Analysis

Client:	Alliance Technical Group, LLC - Newark	Date Collected:	03/03/25 08:00
Project:	NJ Waste Water PT	Date Received:	03/05/25
Client Sample ID:	RR-TPH1L-WP	SDG No.:	Q1505
Lab Sample ID:	Q1505-18	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
TPH	69.3		1	0.40	5.00	mg/L		03/14/25 10:30	1664A

Comments:

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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

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

Report of Analysis

Client:	Alliance Technical Group, LLC - Newark	Date Collected:	03/03/25 08:00
Project:	NJ Waste Water PT	Date Received:	03/05/25
Client Sample ID:	PT-CL-WP	SDG No.:	Q1505
Lab Sample ID:	Q1505-19	Matrix:	Water
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Residual Chlorine	1.16		1	0.023	0.10	mg/L		03/19/25 11:21	SM 4500-Cl G-11

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

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284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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Report of Analysis

Client:	Alliance Technical Group, LLC - Newark	Date Collected:	03/03/25 08:00
Project:	NJ Waste Water PT	Date Received:	03/05/25
Client Sample ID:	PT-PH-WP	SDG No.:	Q1505
Lab Sample ID:	Q1505-20	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
pH	5.45		1	0	0	pH		03/11/25 12:50	9040C

Comments: pH result reported at temperature 23.4 °C

U = Not Detected
LOQ = Limit of Quantitation
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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

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

Report of Analysis

Client:	Alliance Technical Group, LLC - Newark	Date Collected:	03/03/25 08:00
Project:	NJ Waste Water PT	Date Received:	03/05/25
Client Sample ID:	PT-PH-WP	SDG No.:	Q1505
Lab Sample ID:	Q1505-21	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
pH	5.45		1	0	0	pH		03/11/25 12:50	SM 4500-H B-11

Comments: pH result reported at temperature 23.4 °C

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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

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

Report of Analysis

Client:	Alliance Technical Group, LLC - Newark	Date Collected:	03/03/25 08:00
Project:	NJ Waste Water PT	Date Received:	03/05/25
Client Sample ID:	PT-CN-WP	SDG No.:	Q1505
Lab Sample ID:	Q1505-22	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Cyanide	0.22		1	0.0012	0.0050	mg/L	03/18/25 08:30	03/18/25 14:22	SM 4500-CN C-16 plus E-16

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:	Alliance Technical Group, LLC - Newark	Date Collected:	03/03/25 08:00
Project:	NJ Waste Water PT	Date Received:	03/05/25
Client Sample ID:	PT-CN-WP	SDG No.:	Q1505
Lab Sample ID:	Q1505-23	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Cyanide	0.22		1	0.00096	0.0050	mg/L	03/18/25 08:30	03/18/25 12:29	9012B

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:	Alliance Technical Group, LLC - Newark	Date Collected:	03/03/25 08:00
Project:	NJ Waste Water PT	Date Received:	03/05/25
Client Sample ID:	PT-CN-WP	SDG No.:	Q1505
Lab Sample ID:	Q1505-24	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Cyanide	0.22		1	0.00096	0.0050	mg/L	03/18/25 08:30	03/18/25 13:32	9014

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:	Alliance Technical Group, LLC - Newark	Date Collected:	03/03/25 08:00
Project:	NJ Waste Water PT	Date Received:	03/05/25
Client Sample ID:	PT-PHEN-WP	SDG No.:	Q1505
Lab Sample ID:	Q1505-25	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Phenolics	1.30		1	0.015	0.050	mg/L	03/17/25 11:45	03/17/25 16:30	9065

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:	Alliance Technical Group, LLC - Newark	Date Collected:	03/03/25 08:00
Project:	NJ Waste Water PT	Date Received:	03/05/25
Client Sample ID:	PT-PHEN-WP	SDG No.:	Q1505
Lab Sample ID:	Q1505-26	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Phenolics	1.30		1	0.015	0.050	mg/L	03/17/25 11:45	03/17/25 15:33	420.1

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

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Report of Analysis

Client:	Alliance Technical Group, LLC - Newark	Date Collected:	03/03/25 08:00
Project:	NJ Waste Water PT	Date Received:	03/05/25
Client Sample ID:	PT-COL-WP	SDG No.:	Q1505
Lab Sample ID:	Q1505-27	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		03/19/25 09:35	SM 2120 B-11

Comments: Apparent color result reported at pH 1.27

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:	Alliance Technical Group, LLC - Newark	Date Collected:	03/03/25 08:00
Project:	NJ Waste Water PT	Date Received:	03/05/25
Client Sample ID:	PT-S2-WP	SDG No.:	Q1505
Lab Sample ID:	Q1505-28	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Sulfide	9.92		1	0.19	1.00	mg/L	03/20/25 08:45	03/20/25 11:16	SM4500 S EorF

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

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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Report of Analysis

Client:	Alliance Technical Group, LLC - Newark	Date Collected:	03/03/25 08:00
Project:	NJ Waste Water PT	Date Received:	03/05/25
Client Sample ID:	PT-S2-WP	SDG No.:	Q1505
Lab Sample ID:	Q1505-29	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Sulfide	9.92		1	0.43	1.00	mg/L	03/20/25 08:45	03/20/25 11:26	9034

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:	Alliance Technical Group, LLC - Newark	Date Collected:	03/03/25 08:00
Project:	NJ Waste Water PT	Date Received:	03/05/25
Client Sample ID:	PT-SSOL-WP	SDG No.:	Q1505
Lab Sample ID:	Q1505-30	Matrix:	Water
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Settleable Solids	44.0		1	0.50	0.50	ml/L		03/11/25 11:15	SM 2540 F-15

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:	Alliance Technical Group, LLC - Newark	Date Collected:	03/03/25 08:00
Project:	NJ Waste Water PT	Date Received:	03/05/25
Client Sample ID:	PT-VSOL-WP	SDG No.:	Q1505
Lab Sample ID:	Q1505-31	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
TVS	249		1	1.00	10.0	mg/L		03/13/25 16:00	160.4

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:	Alliance Technical Group, LLC - Newark	Date Collected:	03/03/25 08:00
Project:	NJ Waste Water PT	Date Received:	03/05/25
Client Sample ID:	PT-VSOL-WP	SDG No.:	Q1505
Lab Sample ID:	Q1505-32	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
TVS	249		1	1.00	10.0	mg/L		03/13/25 16:00	SM2540G

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:	Alliance Technical Group, LLC - Newark	Date Collected:	03/03/25 08:00
Project:	NJ Waste Water PT	Date Received:	03/05/25
Client Sample ID:	PT-TURB-WP	SDG No.:	Q1505
Lab Sample ID:	Q1505-33	Matrix:	Water
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Turbidity	22.1		1	0.15	1.00	NTU		03/27/25 11:20	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:	Alliance Technical Group, LLC - Newark	Date Collected:	03/03/25 08:00
Project:	NJ Waste Water PT	Date Received:	03/05/25
Client Sample ID:	PT-TURB-WP	SDG No.:	Q1505
Lab Sample ID:	Q1505-34	Matrix:	Water
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Turbidity	22.1		1	0.15	1.00	NTU		03/27/25 11:20	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
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OR = Over Range
N =Spiked sample recovery not within control limits

QC RESULT SUMMARY

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Initial and Continuing Calibration Verification

Client: Alliance Technical Group, LLC - Newark **SDG No.:** Q1505

Project: NJ Waste Water PT **RunNo.:** LB134982

Analyte		Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID:	**ICV1**						
Nitrite		mg/L	0.3	0.3	100	90-110	03/11/2025
Sample ID:	**CCV1**						
Nitrite		mg/L	0.3	0.3	100	90-110	03/11/2025
Sample ID:	**CCV2**						
Nitrite		mg/L	0.3	0.3	100	90-110	03/11/2025

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Initial and Continuing Calibration Verification

Client: Alliance Technical Group, LLC - Newark **SDG No.:** Q1505

Project: NJ Waste Water PT **RunNo.:** LB134984

Analyte	Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID: ICV						
pH	pH	6.99	7	100	90-110	03/11/2025
Sample ID: CCV1						
pH	pH	2.01	2.00	101	90-110	03/11/2025
Sample ID: CCV2						
pH	pH	12.02	12.00	100	90-110	03/11/2025

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Initial and Continuing Calibration Verification

Client: Alliance Technical Group, LLC - Newark **SDG No.:** Q1505

Project: NJ Waste Water PT **RunNo.:** LB134985

Analyte	Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID: **ICV**						
pH	pH	6.99	7	100	90-110	03/11/2025
Sample ID: **CCV1**						
pH	pH	2.01	2.00	101	90-110	03/11/2025
Sample ID: **CCV2**						
pH	pH	12.02	12.00	100	90-110	03/11/2025

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Initial and Continuing Calibration Verification

Client: Alliance Technical Group, LLC - Newark **SDG No.:** Q1505

Project: NJ Waste Water PT **RunNo.:** LB135004

Analyte	Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID: ICV1						
Bromide	mg/L	10.2	10	102	90-110	02/21/2025
Chloride	mg/L	3	3	100	90-110	02/21/2025
Fluoride	mg/L	2	2	100	90-110	02/21/2025
Nitrite	mg/L	3	3	100	90-110	02/21/2025
Nitrate	mg/L	2.5	2.5	100	90-110	02/21/2025
Sulfate	mg/L	15.1	15	101	90-110	02/21/2025
Orthophosphate as P	mg/L	5.1	5	102	90-110	02/21/2025
Sample ID: CCV1						
Bromide	mg/L	10.5	10	105	90-110	03/11/2025
Chloride	mg/L	3.1	3	103	90-110	03/11/2025
Fluoride	mg/L	2.1	2	105	90-110	03/11/2025
Nitrite	mg/L	3.1	3	103	90-110	03/11/2025
Nitrate	mg/L	2.6	2.5	104	90-110	03/11/2025
Sulfate	mg/L	15.5	15	103	90-110	03/11/2025
Orthophosphate as P	mg/L	4.6	5	92	90-110	03/11/2025
Sample ID: CCV2						
Bromide	mg/L	10.5	10	105	90-110	03/11/2025
Chloride	mg/L	3.1	3	103	90-110	03/11/2025
Fluoride	mg/L	2.1	2	105	90-110	03/11/2025
Nitrite	mg/L	3.1	3	103	90-110	03/11/2025
Nitrate	mg/L	2.6	2.5	104	90-110	03/11/2025
Sulfate	mg/L	15.5	15	103	90-110	03/11/2025
Orthophosphate as P	mg/L	5.3	5	106	90-110	03/11/2025

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Initial and Continuing Calibration Verification

Client: Alliance Technical Group, LLC - Newark **SDG No.:** Q1505

Project: NJ Waste Water PT **RunNo.:** LB135005

Analyte	Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID: ICV1						
Bromide	mg/L	10.2	10	102	90-110	02/21/2025
Chloride	mg/L	3	3	100	90-110	02/21/2025
Fluoride	mg/L	2	2	100	90-110	02/21/2025
Nitrite	mg/L	3	3	100	90-110	02/21/2025
Nitrate	mg/L	2.5	2.5	100	90-110	02/21/2025
Sulfate	mg/L	15.1	15	101	90-110	02/21/2025
Orthophosphate as P	mg/L	5.1	5	102	90-110	02/21/2025
Sample ID: CCV1						
Bromide	mg/L	10.5	10	105	90-110	03/11/2025
Chloride	mg/L	3.1	3	103	90-110	03/11/2025
Fluoride	mg/L	2.1	2	105	90-110	03/11/2025
Nitrite	mg/L	3.1	3	103	90-110	03/11/2025
Nitrate	mg/L	2.6	2.5	104	90-110	03/11/2025
Sulfate	mg/L	15.5	15	103	90-110	03/11/2025
Orthophosphate as P	mg/L	4.6	5	92	90-110	03/11/2025
Sample ID: CCV2						
Bromide	mg/L	10.5	10	105	90-110	03/11/2025
Chloride	mg/L	3.1	3	103	90-110	03/11/2025
Fluoride	mg/L	2.1	2	105	90-110	03/11/2025
Nitrite	mg/L	3.1	3	103	90-110	03/11/2025
Nitrate	mg/L	2.6	2.5	104	90-110	03/11/2025
Sulfate	mg/L	15.5	15	103	90-110	03/11/2025
Orthophosphate as P	mg/L	5.3	5	106	90-110	03/11/2025
Sample ID: CCV3						
Bromide	mg/L	10.5	10	105	90-110	03/11/2025
Chloride	mg/L	3.1	3	103	90-110	03/11/2025
Fluoride	mg/L	2.1	2	105	90-110	03/11/2025
Nitrite	mg/L	3.1	3	103	90-110	03/11/2025
Nitrate	mg/L	2.6	2.5	104	90-110	03/11/2025
Sulfate	mg/L	15.5	15	103	90-110	03/11/2025
Orthophosphate as P	mg/L	5.4	5	108	90-110	03/11/2025

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Initial and Continuing Calibration Verification

Client: Alliance Technical Group, LLC - Newark **SDG No.:** Q1505

Project: NJ Waste Water PT **RunNo.:** LB135012

Analyte	Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID: **ICV1**						
Ammonia as N	mg/L	1	1	100	90-110	03/12/2025
Sample ID: **CCV1**						
Ammonia as N	mg/L	0.95	1	95	90-110	03/12/2025
Sample ID: **CCV2**						
Ammonia as N	mg/L	0.97	1	97	90-110	03/12/2025
Sample ID: **CCV3**						
Ammonia as N	mg/L	0.95	1	95	90-110	03/12/2025

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Initial and Continuing Calibration Verification

Client: Alliance Technical Group, LLC - Newark **SDG No.:** Q1505

Project: NJ Waste Water PT **RunNo.:** LB135037

Analyte	Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID: ICV						
Orthophosphate as P	mg/L	0.508	0.50	102	90-110	03/14/2025
Sample ID: CCV1						
Orthophosphate as P	mg/L	0.511	0.5	102	90-110	03/14/2025
Sample ID: CCV2						
Orthophosphate as P	mg/L	0.502	0.5	100	90-110	03/14/2025

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Initial and Continuing Calibration Verification

Client:	Alliance Technical Group, LLC - Newark	**SDG No.:**	Q1505
Project:	NJ Waste Water PT	**RunNo.:**	LB135041

Analyte	Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID: ICV						
Phosphorus, Total	mg/L	0.490	0.50	98	90-110	03/14/2025
Sample ID: CCV1						
Phosphorus, Total	mg/L	0.492	0.50	98	90-110	03/14/2025
Sample ID: CCV2						
Phosphorus, Total	mg/L	0.490	0.50	98	90-110	03/14/2025

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Initial and Continuing Calibration Verification

Client:	Alliance Technical Group, LLC - Newark	**SDG No.:**	Q1505
Project:	NJ Waste Water PT	**RunNo.:**	LB135060

Analyte		Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID:	**ICV1**						
Phenolics		mg/L	0.98	1	98	90-110	03/17/2025
Sample ID:	**CCV1**						
Phenolics		mg/L	0.99	1	99	90-110	03/17/2025
Sample ID:	**CCV2**						
Phenolics		mg/L	1	1	100	90-110	03/17/2025

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Initial and Continuing Calibration Verification

Client:	Alliance Technical Group, LLC - Newark	**SDG No.:**	Q1505
Project:	NJ Waste Water PT	**RunNo.:**	LB135061

Analyte		Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID:	**ICV1**						
Phenolics		mg/L	0.99	1	99	90-110	03/17/2025
Sample ID:	**CCV1**						
Phenolics		mg/L	0.99	1	99	90-110	03/17/2025
Sample ID:	**CCV2**						
Phenolics		mg/L	1	1	100	90-110	03/17/2025

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Initial and Continuing Calibration Verification

Client:	Alliance Technical Group, LLC - Newark	**SDG No.:**	Q1505
Project:	NJ Waste Water PT	**RunNo.:**	LB135072

Analyte		Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID:	**ICV1**						
Cyanide		mg/L	0.093	0.099	94	90-110	03/18/2025
Sample ID:	**CCV1**						
Cyanide		mg/L	0.25	0.25	100	90-110	03/18/2025
Sample ID:	**CCV2**						
Cyanide		mg/L	0.24	0.25	96	90-110	03/18/2025

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Initial and Continuing Calibration Verification

Client: Alliance Technical Group, LLC - Newark **SDG No.:** Q1505

Project: NJ Waste Water PT **RunNo.:** LB135073

Analyte	Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID: **ICV1**						
Cyanide	mg/L	0.093	0.099	94	90-110	03/18/2025
Sample ID: **CCV1**						
Cyanide	mg/L	0.25	0.25	100	90-110	03/18/2025
Sample ID: **CCV2**						
Cyanide	mg/L	0.24	0.25	96	90-110	03/18/2025

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Initial and Continuing Calibration Verification

Client: Alliance Technical Group, LLC - Newark **SDG No.:** Q1505

Project: NJ Waste Water PT **RunNo.:** LB135075

Analyte	Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID: **ICV1**						
Cyanide	mg/L	0.092	0.099	93	85-115	03/18/2025
Sample ID: **CCV1**						
Cyanide	mg/L	0.24	0.25	96	90-110	03/18/2025
Sample ID: **CCV2**						
Cyanide	mg/L	0.25	0.25	100	90-110	03/18/2025

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Initial and Continuing Calibration Verification

Client:	Alliance Technical Group, LLC - Newark	**SDG No.:**	Q1505
Project:	NJ Waste Water PT	**RunNo.:**	LB135085

Analyte		Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID:	**ICV1**						
TOC		mg/L	9.7	10	97	90-110	03/11/2025
Sample ID:	**CCV1**						
TOC		mg/L	10.2	10	102	90-110	03/19/2025
Sample ID:	**CCV2**						
TOC		mg/L	10.8	10	108	90-110	03/19/2025

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Initial and Continuing Calibration Verification

Client:	Alliance Technical Group, LLC - Newark	**SDG No.:**	Q1505
Project:	NJ Waste Water PT	**RunNo.:**	LB135087

Analyte	Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID: ICV						
Residual Chlorine	mg/L	0.410	0.4	103	90-110	03/19/2025
Sample ID: CCV1						
Residual Chlorine	mg/L	0.410	0.4	103	90-110	03/19/2025
Sample ID: CCV2						
Residual Chlorine	mg/L	0.388	0.4	97	90-110	03/19/2025

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Initial and Continuing Calibration Verification

Client: Alliance Technical Group, LLC - Newark **SDG No.:** Q1505

Project: NJ Waste Water PT **RunNo.:** LB135094

Analyte	Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID: ICV						
Hexavalent Chromium	mg/L	0.506	0.5	101	95-105	03/19/2025
Sample ID: CCV1						
Hexavalent Chromium	mg/L	0.501	0.5	100	90-110	03/19/2025
Sample ID: CCV2						
Hexavalent Chromium	mg/L	0.514	0.5	103	90-110	03/19/2025

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Initial and Continuing Calibration Verification

Client:	Alliance Technical Group, LLC - Newark	**SDG No.:**	Q1505
Project:	NJ Waste Water PT	**RunNo.:**	LB135095

Analyte		Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID:	**ICV1**						
TKN		mg/L	4.7	5	94	90-110	03/19/2025
Sample ID:	**CCV1**						
TKN		mg/L	4.8	5	96	90-110	03/19/2025
Sample ID:	**CCV2**						
TKN		mg/L	5	5	100	90-110	03/19/2025
Sample ID:	**CCV3**						
TKN		mg/L	4.8	5	96	90-110	03/19/2025

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Initial and Continuing Calibration Verification

Client: Alliance Technical Group, LLC - Newark **SDG No.:** Q1505

Project: NJ Waste Water PT **RunNo.:** LB135113

Analyte	Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID: ICV						
Hexavalent Chromium	mg/L	0.497	0.5	99	90-110	03/20/2025
Sample ID: CCV1						
Hexavalent Chromium	mg/L	0.501	0.5	100	90-110	03/20/2025
Sample ID: CCV2						
Hexavalent Chromium	mg/L	0.498	0.5	100	90-110	03/20/2025

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Initial and Continuing Calibration Verification

Client:	Alliance Technical Group, LLC - Newark	**SDG No.:**	Q1505
Project:	NJ Waste Water PT	**RunNo.:**	LB135125

Analyte		Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID:	**ICV1**						
TOC		mg/L	9.7	10	97	90-110	03/11/2025
Sample ID:	**CCV1**						
TOC		mg/L	1	1	100	90-110	03/19/2025
Sample ID:	**CCV2**						
TOC		mg/L	10.8	10	108	90-110	03/19/2025

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Initial and Continuing Calibration Verification

Client:	Alliance Technical Group, LLC - Newark	**SDG No.:**	Q1505
Project:	NJ Waste Water PT	**RunNo.:**	LB135131

Analyte	Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID: **ICV**						
COD	mg/L	49.329	50	99	95-105	01/22/2025
Sample ID: **CCV1**						
COD	mg/L	50.319	50	101	95-105	03/21/2025
Sample ID: **CCV2**						
COD	mg/L	50.319	50	101	95-105	03/21/2025

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Initial and Continuing Calibration Verification

Client:	Alliance Technical Group, LLC - Newark	**SDG No.:**	Q1505
Project:	NJ Waste Water PT	**RunNo.:**	LB135191

Analyte		Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID:	**ICV**						
Sulfate		mg/L	19.130	20	96	90-110	03/26/2025
Sample ID:	**CCV1**						
Sulfate		mg/L	20.425	20	102	90-110	03/26/2025
Sample ID:	**CCV2**						
Sulfate		mg/L	18.936	20	95	90-110	03/26/2025

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Initial and Continuing Calibration Verification

Client: Alliance Technical Group, LLC - Newark **SDG No.:** Q1505

Project: NJ Waste Water PT **RunNo.:** LB135192

Analyte		Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID:	**ICV**						
Sulfate		mg/L	19.317	20	97	90-110	03/26/2025
Sample ID:	**CCV1**						
Sulfate		mg/L	19.843	20	99	90-110	03/26/2025
Sample ID:	**CCV2**						
Sulfate		mg/L	19.148	20	96	90-110	03/26/2025

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Initial and Continuing Calibration Verification

Client: Alliance Technical Group, LLC - Newark **SDG No.:** Q1505

Project: NJ Waste Water PT **RunNo.:** LB135207

Analyte		Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID:	ICV						
Turbidity		NTU	9.239	10	92	90-110	03/27/2025
Sample ID:	CCV1						
Turbidity		NTU	9.552	10	96	90-110	03/27/2025
Sample ID:	CCV2						
Turbidity		NTU	9.498	10	95	90-110	03/27/2025

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Initial and Continuing Calibration Verification

Client: Alliance Technical Group, LLC - Newark **SDG No.:** Q1505

Project: NJ Waste Water PT **RunNo.:** LB135208

Analyte		Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID:	ICV						
Turbidity		NTU	9.239	10	92	90-110	03/27/2025
Sample ID:	CCV1						
Turbidity		NTU	9.552	10	96	90-110	03/27/2025
Sample ID:	CCV2						
Turbidity		NTU	9.498	10	95	90-110	03/27/2025

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Initial and Continuing Calibration Verification

Client:	Alliance Technical Group, LLC - Newark	**SDG No.:**	Q1505
Project:	NJ Waste Water PT	**RunNo.:**	LB135208

Analyte	Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date

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Initial and Continuing Calibration Blank Summary

Client: Alliance Technical Group, LLC - Newark **SDG No.:** Q1505

Project: NJ Waste Water PT **RunNo.:** LB134982

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	03/11/2025
Sample ID:	CCB1							
Nitrite		mg/L	< 0.0060	0.0060	U	0.0018	0.012	03/11/2025
Sample ID:	CCB2							
Nitrite		mg/L	0.0019	0.0060	J	0.0018	0.012	03/11/2025

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Initial and Continuing Calibration Blank Summary

Client: Alliance Technical Group, LLC - Newark **SDG No.:** Q1505

Project: NJ Waste Water PT **RunNo.:** LB135004

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	02/21/2025
Chloride	mg/L	< 0.3000	0.3000	U	0.011	0.6	02/21/2025
Fluoride	mg/L	< 0.2000	0.2000	U	0.057	0.4	02/21/2025
Nitrite	mg/L	< 0.3000	0.3000	U	0.011	0.6	02/21/2025
Nitrate	mg/L	< 0.2500	0.2500	U	0.0034	0.5	02/21/2025
Sulfate	mg/L	< 1.5000	1.5000	U	0.032	3	02/21/2025
Orthophosphate as P	mg/L	< 0.5000	0.5000	U	0.079	1	02/21/2025
Sample ID: CCB1							
Bromide	mg/L	< 1.0000	1.0000	U	0.034	2	03/11/2025
Chloride	mg/L	< 0.3000	0.3000	U	0.011	0.6	03/11/2025
Fluoride	mg/L	< 0.2000	0.2000	U	0.057	0.4	03/11/2025
Nitrite	mg/L	< 0.3000	0.3000	U	0.011	0.6	03/11/2025
Nitrate	mg/L	< 0.2500	0.2500	U	0.0034	0.5	03/11/2025
Sulfate	mg/L	< 1.5000	1.5000	U	0.032	3	03/11/2025
Orthophosphate as P	mg/L	< 0.5000	0.5000	U	0.079	1	03/11/2025
Sample ID: CCB2							
Bromide	mg/L	< 1.0000	1.0000	U	0.034	2	03/11/2025
Chloride	mg/L	< 0.3000	0.3000	U	0.011	0.6	03/11/2025
Fluoride	mg/L	< 0.2000	0.2000	U	0.057	0.4	03/11/2025
Nitrite	mg/L	< 0.3000	0.3000	U	0.011	0.6	03/11/2025
Nitrate	mg/L	< 0.2500	0.2500	U	0.0034	0.5	03/11/2025
Sulfate	mg/L	< 1.5000	1.5000	U	0.032	3	03/11/2025
Orthophosphate as P	mg/L	< 0.5000	0.5000	U	0.079	1	03/11/2025

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Initial and Continuing Calibration Blank Summary

Client: Alliance Technical Group, LLC - Newark **SDG No.:** Q1505

Project: NJ Waste Water PT **RunNo.:** LB135005

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	02/21/2025
Chloride	mg/L	< 0.3000	0.3000	U	0.011	0.6	02/21/2025
Fluoride	mg/L	< 0.2000	0.2000	U	0.057	0.4	02/21/2025
Nitrite	mg/L	< 0.3000	0.3000	U	0.011	0.6	02/21/2025
Nitrate	mg/L	< 0.2500	0.2500	U	0.0034	0.5	02/21/2025
Sulfate	mg/L	< 1.5000	1.5000	U	0.032	3	02/21/2025
Orthophosphate as P	mg/L	< 0.5000	0.5000	U	0.079	1	02/21/2025
Sample ID: CCB1							
Bromide	mg/L	< 1.0000	1.0000	U	0.034	2	03/11/2025
Chloride	mg/L	< 0.3000	0.3000	U	0.011	0.6	03/11/2025
Fluoride	mg/L	< 0.2000	0.2000	U	0.057	0.4	03/11/2025
Nitrite	mg/L	< 0.3000	0.3000	U	0.011	0.6	03/11/2025
Nitrate	mg/L	< 0.2500	0.2500	U	0.0034	0.5	03/11/2025
Sulfate	mg/L	< 1.5000	1.5000	U	0.032	3	03/11/2025
Orthophosphate as P	mg/L	< 0.5000	0.5000	U	0.079	1	03/11/2025
Sample ID: CCB2							
Bromide	mg/L	< 1.0000	1.0000	U	0.034	2	03/11/2025
Chloride	mg/L	< 0.3000	0.3000	U	0.011	0.6	03/11/2025
Fluoride	mg/L	< 0.2000	0.2000	U	0.057	0.4	03/11/2025
Nitrite	mg/L	< 0.3000	0.3000	U	0.011	0.6	03/11/2025
Nitrate	mg/L	< 0.2500	0.2500	U	0.0034	0.5	03/11/2025
Sulfate	mg/L	< 1.5000	1.5000	U	0.032	3	03/11/2025
Orthophosphate as P	mg/L	< 0.5000	0.5000	U	0.079	1	03/11/2025
Sample ID: CCB3							
Bromide	mg/L	< 1.0000	1.0000	U	0.034	2	03/11/2025
Chloride	mg/L	< 0.3000	0.3000	U	0.011	0.6	03/11/2025
Fluoride	mg/L	< 0.2000	0.2000	U	0.057	0.4	03/11/2025
Nitrite	mg/L	< 0.3000	0.3000	U	0.011	0.6	03/11/2025
Nitrate	mg/L	< 0.2500	0.2500	U	0.0034	0.5	03/11/2025
Sulfate	mg/L	< 1.5000	1.5000	U	0.032	3	03/11/2025
Orthophosphate as P	mg/L	< 0.5000	0.5000	U	0.079	1	03/11/2025

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Initial and Continuing Calibration Blank Summary

Client: Alliance Technical Group, LLC - Newark **SDG No.:** Q1505

Project: NJ Waste Water PT **RunNo.:** LB135012

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	03/12/2025
Sample ID: CCB1							
Ammonia as N	mg/L	< 0.0500	0.0500	U	0.045	0.1	03/12/2025
Sample ID: CCB2							
Ammonia as N	mg/L	< 0.0500	0.0500	U	0.045	0.1	03/12/2025
Sample ID: CCB3							
Ammonia as N	mg/L	< 0.0500	0.0500	U	0.045	0.1	03/12/2025

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Initial and Continuing Calibration Blank Summary

Client: Alliance Technical Group, LLC - Newark **SDG No.:** Q1505

Project: NJ Waste Water PT **RunNo.:** LB135037

Analyte	Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID: ICB							
Orthophosphate as P	mg/L	0.006	0.0250	J	0.0040	0.05	03/14/2025
Sample ID: CCB1							
Orthophosphate as P	mg/L	0.006	0.0250	J	0.0040	0.05	03/14/2025
Sample ID: CCB2							
Orthophosphate as P	mg/L	0.006	0.0250	J	0.0040	0.05	03/14/2025

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Initial and Continuing Calibration Blank Summary

Client: Alliance Technical Group, LLC - Newark **SDG No.:** Q1505

Project: NJ Waste Water PT **RunNo.:** LB135041

Analyte	Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID: ICB							
Phosphorus, Total	mg/L	0.008	0.0250	J	0.0045	0.05	03/14/2025
Sample ID: CCB1							
Phosphorus, Total	mg/L	0.008	0.0250	J	0.0045	0.05	03/14/2025
Sample ID: CCB2							
Phosphorus, Total	mg/L	0.008	0.0250	J	0.0045	0.05	03/14/2025

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Initial and Continuing Calibration Blank Summary

Client: Alliance Technical Group, LLC - Newark **SDG No.:** Q1505

Project: NJ Waste Water PT **RunNo.:** LB135060

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	03/17/2025
Sample ID:	CCB1							
Phenolics		mg/L	< 0.0250	0.0250	U	0.015	0.05	03/17/2025
Sample ID:	CCB2							
Phenolics		mg/L	< 0.0250	0.0250	U	0.015	0.05	03/17/2025

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Initial and Continuing Calibration Blank Summary

Client: Alliance Technical Group, LLC - Newark **SDG No.:** Q1505

Project: NJ Waste Water PT **RunNo.:** LB135061

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	03/17/2025
Sample ID:	CCB1							
Phenolics		mg/L	< 0.0250	0.0250	U	0.015	0.05	03/17/2025
Sample ID:	CCB2							
Phenolics		mg/L	< 0.0250	0.0250	U	0.015	0.05	03/17/2025

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Initial and Continuing Calibration Blank Summary

Client: Alliance Technical Group, LLC - Newark **SDG No.:** Q1505

Project: NJ Waste Water PT **RunNo.:** LB135072

Analyte		Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID:	ICB1							
Cyanide		mg/L	< 0.0025	0.0025	U	0.00096	0.005	03/18/2025
Sample ID:	CCB1							
Cyanide		mg/L	< 0.0025	0.0025	U	0.00096	0.005	03/18/2025
Sample ID:	CCB2							
Cyanide		mg/L	< 0.0025	0.0025	U	0.00096	0.005	03/18/2025

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Initial and Continuing Calibration Blank Summary

Client: Alliance Technical Group, LLC - Newark **SDG No.:** Q1505

Project: NJ Waste Water PT **RunNo.:** LB135073

Analyte		Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID:	ICB1							
Cyanide		mg/L	< 0.0025	0.0025	U	0.00096	0.005	03/18/2025
Sample ID:	CCB1							
Cyanide		mg/L	< 0.0025	0.0025	U	0.00096	0.005	03/18/2025
Sample ID:	CCB2							
Cyanide		mg/L	< 0.0025	0.0025	U	0.00096	0.005	03/18/2025

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Initial and Continuing Calibration Blank Summary

Client: Alliance Technical Group, LLC - Newark **SDG No.:** Q1505

Project: NJ Waste Water PT **RunNo.:** LB135075

Analyte		Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID:	ICB1							
Cyanide		mg/L	< 0.0025	0.0025	U	0.0012	0.005	03/18/2025
Sample ID:	CCB1							
Cyanide		mg/L	< 0.0025	0.0025	U	0.0012	0.005	03/18/2025
Sample ID:	CCB2							
Cyanide		mg/L	< 0.0025	0.0025	U	0.0012	0.005	03/18/2025

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Initial and Continuing Calibration Blank Summary

Client:	Alliance Technical Group, LLC - Newark	**SDG No.:**	Q1505
Project:	NJ Waste Water PT	**RunNo.:**	LB135085

Analyte		Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID:	**ICB1**							
TOC		mg/L	< 0.5000	0.5000	U	0.40	1	03/11/2025
Sample ID:	**CCB1**							
TOC		mg/L	0.4	0.5000	J	0.40	1	03/19/2025
Sample ID:	**CCB2**							
TOC		mg/L	0.4	0.5000	J	0.40	1	03/19/2025

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Initial and Continuing Calibration Blank Summary

Client: Alliance Technical Group, LLC - Newark **SDG No.:** Q1505

Project: NJ Waste Water PT **RunNo.:** LB135087

Analyte	Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID: ICB							
Residual Chlorine	mg/L	< 0.0500	0.0500	U	0.023	0.1	03/19/2025
Sample ID: CCB1							
Residual Chlorine	mg/L	< 0.0500	0.0500	U	0.023	0.1	03/19/2025
Sample ID: CCB2							
Residual Chlorine	mg/L	< 0.0500	0.0500	U	0.023	0.1	03/19/2025

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Initial and Continuing Calibration Blank Summary

Client: Alliance Technical Group, LLC - Newark **SDG No.:** Q1505

Project: NJ Waste Water PT **RunNo.:** LB135094

Analyte	Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID: ICB							
Hexavalent Chromium	mg/L	< 0.0050	0.0050	U	0.0025	0.01	03/19/2025
Sample ID: CCB1							
Hexavalent Chromium	mg/L	< 0.0050	0.0050	U	0.0025	0.01	03/19/2025
Sample ID: CCB2							
Hexavalent Chromium	mg/L	< 0.0050	0.0050	U	0.0025	0.01	03/19/2025

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Initial and Continuing Calibration Blank Summary

Client:	Alliance Technical Group, LLC - Newark	**SDG No.:**	Q1505
Project:	NJ Waste Water PT	**RunNo.:**	LB135095

Analyte		Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID:	**ICB1**							
TKN		mg/L	0.13	0.2500	J	0.11	0.5	03/19/2025
Sample ID:	**CCB1**							
TKN		mg/L	0.12	0.2500	J	0.11	0.5	03/19/2025
Sample ID:	**CCB2**							
TKN		mg/L	0.16	0.2500	J	0.11	0.5	03/19/2025
Sample ID:	**CCB3**							
TKN		mg/L	0.14	0.2500	J	0.11	0.5	03/19/2025

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Initial and Continuing Calibration Blank Summary

Client: Alliance Technical Group, LLC - Newark **SDG No.:** Q1505

Project: NJ Waste Water PT **RunNo.:** LB135113

Analyte	Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID: ICB							
Hexavalent Chromium	mg/L	< 0.0050	0.0050	U	0.0029	0.01	03/20/2025
Sample ID: CCB1							
Hexavalent Chromium	mg/L	< 0.0050	0.0050	U	0.0029	0.01	03/20/2025
Sample ID: CCB2							
Hexavalent Chromium	mg/L	< 0.0050	0.0050	U	0.0029	0.01	03/20/2025

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Initial and Continuing Calibration Blank Summary

Client:	Alliance Technical Group, LLC - Newark	**SDG No.:**	Q1505
Project:	NJ Waste Water PT	**RunNo.:**	LB135125

Analyte		Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID:	**ICB1**							
TOC		mg/L	< 0.5000	0.5000	U	0.35	1	03/11/2025
Sample ID:	**CCB1**							
TOC		mg/L	0.4	0.5000	J	0.35	1	03/19/2025
Sample ID:	**CCB2**							
TOC		mg/L	0.4	0.5000	J	0.35	1	03/19/2025

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Initial and Continuing Calibration Blank Summary

Client:	Alliance Technical Group, LLC - Newark	**SDG No.:**	Q1505
Project:	NJ Waste Water PT	**RunNo.:**	LB135131

Analyte		Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID:	**ICB**							
COD		mg/L	< 5.0000	5.0000	U	1.50	10	01/22/2025
Sample ID:	**CCB1**							
COD		mg/L	< 5.0000	5.0000	U	1.50	10	03/21/2025
Sample ID:	**CCB2**							
COD		mg/L	< 5.0000	5.0000	U	1.50	10	03/21/2025

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Initial and Continuing Calibration Blank Summary

Client: Alliance Technical Group, LLC - Newark **SDG No.:** Q1505

Project: NJ Waste Water PT **RunNo.:** LB135191

Analyte		Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID:	ICB							
Sulfate		mg/L	1.503	2.5000	J	0.43	5	03/26/2025
Sample ID:	CCB1							
Sulfate		mg/L	1.508	2.5000	J	0.43	5	03/26/2025
Sample ID:	CCB2							
Sulfate		mg/L	1.505	2.5000	J	0.43	5	03/26/2025

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Initial and Continuing Calibration Blank Summary

Client: Alliance Technical Group, LLC - Newark **SDG No.:** Q1505

Project: NJ Waste Water PT **RunNo.:** LB135192

Analyte		Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID:	ICB							
Sulfate		mg/L	1.597	2.5000	J	0.45	5	03/26/2025
Sample ID:	CCB1							
Sulfate		mg/L	1.601	2.5000	J	0.45	5	03/26/2025
Sample ID:	CCB2							
Sulfate		mg/L	1.598	2.5000	J	0.45	5	03/26/2025

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Initial and Continuing Calibration Blank Summary

Client: Alliance Technical Group, LLC - Newark **SDG No.:** Q1505

Project: NJ Waste Water PT **RunNo.:** LB135207

Analyte		Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID:	ICB							
Turbidity		NTU	0.218	0.5000	J	0.15	1.0	03/27/2025
Sample ID:	CCB1							
Turbidity		NTU	0.216	0.5000	J	0.15	1	03/27/2025
Sample ID:	CCB2							
Turbidity		NTU	0.223	0.5000	J	0.15	1	03/27/2025

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Initial and Continuing Calibration Blank Summary

Client: Alliance Technical Group, LLC - Newark **SDG No.:** Q1505

Project: NJ Waste Water PT **RunNo.:** LB135208

Analyte		Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID:	ICB							
Turbidity		NTU	0.218	0.5000	J	0.15	1.0	03/27/2025
Sample ID:	CCB1							
Turbidity		NTU	0.216	0.5000	J	0.15	1	03/27/2025
Sample ID:	CCB2							
Turbidity		NTU	0.223	0.5000	J	0.15	1	03/27/2025

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Initial and Continuing Calibration Blank Summary

Client:	Alliance Technical Group, LLC - Newark	**SDG No.:**	Q1505
Project:	NJ Waste Water PT	**RunNo.:**	LB135208

Analyte	Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date

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Preparation Blank Summary

Client: Alliance Technical Group, LLC - Newark **SDG No.:** Q1505

Project: NJ Waste Water PT

Analyte	Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID: LB134982BLW							
Nitrite	mg/L	< 0.0060	0.0060	U	0.0018	0.012	03/11/2025
Sample ID: LB134998BL							
Chloride	mg/L	< 2.5000	2.5000	U	1.27	5.0	03/12/2025
Sample ID: LB135002BL							
BOD5	mg/L	< 0.2000	0.2000	U	0.20	2.0	03/12/2025
Sample ID: LB135003BL							
CBOD5	mg/L	< 0.2000	0.2000	U	0.20	2.0	03/12/2025
Sample ID: LB135004BLW							
Bromide	mg/L	< 1.0000	1.0000	U	0.034	2	03/11/2025
Chloride	mg/L	< 0.3000	0.3000	U	0.011	0.6	03/11/2025
Fluoride	mg/L	< 0.2000	0.2000	U	0.057	0.4	03/11/2025
Nitrite	mg/L	< 0.3000	0.3000	U	0.011	0.6	03/11/2025
Nitrate	mg/L	< 0.2500	0.2500	U	0.0034	0.5	03/11/2025
Sulfate	mg/L	< 1.5000	1.5000	U	0.032	3	03/11/2025
Orthophosphate as P	mg/L	< 0.5000	0.5000	U	0.079	1	03/11/2025
Sample ID: LB135005BLW							
Bromide	mg/L	< 1.0000	1.0000	U	0.034	2	03/11/2025
Chloride	mg/L	< 0.3000	0.3000	U	0.011	0.6	03/11/2025
Fluoride	mg/L	< 0.2000	0.2000	U	0.057	0.4	03/11/2025
Nitrite	mg/L	< 0.3000	0.3000	U	0.011	0.6	03/11/2025
Nitrate	mg/L	< 0.2500	0.2500	U	0.0034	0.5	03/11/2025
Sulfate	mg/L	< 1.5000	1.5000	U	0.032	3	03/11/2025
Orthophosphate as P	mg/L	< 0.5000	0.5000	U	0.079	1	03/11/2025
Sample ID: LB135023BL							
Conductance	umho/cm	< 1.0000	1.0000	U	0.91	2.0	03/13/2025
Sample ID: LB135025BL							
TVS	mg/L	< 5.0000	5.0000	U	1	10	03/13/2025
Sample ID: LB135026BL							
TVS	mg/L	< 5.0000	5.0000	U	1	10	03/13/2025
Sample ID: LB135027BL							
Oil and Grease	mg/L	< 2.5000	2.5000	U	0.4	5.0	03/14/2025
Sample ID: LB135028BL							
TPH	mg/L	< 2.5000	2.5000	U	0.4	5.0	03/14/2025
Sample ID: LB135037BL							
Orthophosphate as P	mg/L	0.006	0.0250	J	0.004	0.05	03/14/2025
Sample ID: LB135057BL							
Conductance	umho/cm	< 1.0000	1.0000	U	0.91	2.0	03/13/2025
Sample ID: LB135058BL							
Conductance	umho/cm	< 1.0000	1.0000	U	0.91	2.0	03/13/2025
Sample ID: LB135065BLW							
Alkalinity	mg/L	< 1.0000	1.0000	U	1	2	03/18/2025
Sample ID: LB135085BLW							

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Preparation Blank Summary

Client: Alliance Technical Group, LLC - Newark **SDG No.:** Q1505

Project: NJ Waste Water PT

Analyte	Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
TOC	mg/L	< 0.5000	0.5000	U	0.4	1	03/19/2025
Sample ID: LB135087BL							
Residual Chlorine	mg/L	< 0.0500	0.0500	U	0.023	0.1	03/19/2025
Sample ID: LB135088BL							
Apparent Color	cu	< 2.5000	2.5000	U	5.0	5.0	03/19/2025
Sample ID: LB135094BL							
Hexavalent Chromium	mg/L	< 0.0050	0.0050	U	0.003	0.01	03/19/2025
Sample ID: LB135113BL							
Hexavalent Chromium	mg/L	< 0.0050	0.0050	U	0.003	0.01	03/20/2025
Sample ID: LB135125BLW							
TOC	mg/L	0.35	0.5000	J	0.35	1	03/19/2025
Sample ID: LB135131BL							
COD	mg/L	< 5.0000	5.0000	U	1.5	10.0	03/21/2025
Sample ID: LB135191BL							
Sulfate	mg/L	1.51	2.5000	J	0.43	5.0	03/26/2025
Sample ID: LB135192BL							
Sulfate	mg/L	1.6	2.5000	J	0.45	5.0	03/26/2025
Sample ID: LB135207BL							
Turbidity	NTU	0.214	0.5000	J	0.15	1.0	03/27/2025
Sample ID: LB135208BL							
Turbidity	NTU	0.214	0.5000	J	0.15	1.0	03/27/2025
Sample ID: LB135334BL							
TSS	mg/L	1	2.0000	J	1	4	04/08/2025
Sample ID: LB135335BL							
TDS	mg/L	< 5.0000	5.0000	U	1.0	10	04/08/2025
Sample ID: LB135336BL							
TS	mg/L	< 2.5000	2.5000	U	1	5	04/08/2025
Sample ID: PB167063BL							
Ammonia as N	mg/L	< 0.0500	0.0500	U	0.045	0.1	03/12/2025
Sample ID: PB167144BL							
Phosphorus, Total	mg/L	0.008	0.0250	J	0.005	0.05	03/14/2025
Sample ID: PB167174BL							
Phenolics	mg/L	< 0.0250	0.0250	U	0.015	0.05	03/17/2025
Sample ID: PB167175BL							
Phenolics	mg/L	< 0.0250	0.0250	U	0.015	0.05	03/17/2025
Sample ID: PB167190BL							
TKN	mg/L	0.12	0.2500	J	0.11	0.5	03/19/2025
Sample ID: PB167191BL							
Cyanide	mg/L	< 0.0025	0.0025	U	0.00096	0.005	03/18/2025
Sample ID: PB167192BL							

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Preparation Blank Summary

Client: Alliance Technical Group, LLC - Newark **SDG No.:** Q1505

Project: NJ Waste Water PT

Analyte	Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Cyanide	mg/L	< 0.0025	0.0025	U	0.0012	0.005	03/18/2025
Sample ID: PB167195BL							
Cyanide	mg/L	< 0.0025	0.0025	U	0.00096	0.005	03/18/2025
Sample ID: PB167198BL							
Sulfide	mg/L	< 0.5000	0.5000	U	0.43	1.0	03/20/2025
Sample ID: PB167199BL							
Sulfide	mg/L	< 0.5000	0.5000	U	0.19	1.0	03/20/2025

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Matrix Spike Summary

Client: Alliance Technical Group, LLC - Newark
SDG No.: Q1505
Project: NJ Waste Water PT
Sample ID: Q1539-01
Client ID: TAPIAL3-MW03D-031025-00-T1MS
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	10.4		0.034	U	10	1	104		03/11/2025
Chloride	mg/L	80-120	57.9	OR	56.9	OR	3	1	33	*	03/11/2025
Fluoride	mg/L	80-120	2.10		0.12	J	2	1	99		03/11/2025
Nitrite	mg/L	80-120	3.00		0.011	U	3	1	100		03/11/2025
Nitrate	mg/L	80-120	2.60		0.0034	U	2.5	1	104		03/11/2025
Sulfate	mg/L	80-120	31.4		16.8		15	1	97		03/11/2025
Orthophosphate as P	mg/L	80-120	2.90		0.079	U	5	1	58	*	03/11/2025

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Matrix Spike Summary

Client: Alliance Technical Group, LLC - Newark
SDG No.: Q1505
Project: NJ Waste Water PT
Sample ID: Q1539-01
Client ID: TAPIAL3-MW03D-031025-00-T1MSD
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		0.034	U	10	1	99		03/11/2025
Chloride	mg/L	80-120	57.9	OR	56.9	OR	3	1	33	*	03/11/2025
Fluoride	mg/L	80-120	2.00		0.12	J	2	1	94		03/11/2025
Nitrite	mg/L	80-120	2.90		0.011	U	3	1	97		03/11/2025
Nitrate	mg/L	80-120	2.50		0.0034	U	2.5	1	100		03/11/2025
Sulfate	mg/L	80-120	30.7		16.8		15	1	93		03/11/2025
Orthophosphate as P	mg/L	80-120	2.70		0.079	U	5	1	54	*	03/11/2025

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Matrix Spike Summary

Client: Alliance Technical Group, LLC - Newark
SDG No.: Q1505
Project: NJ Waste Water PT
Sample ID: Q1539-02
Client ID: TAPFTA-MW01I-031025-00-T2MS
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
Ammonia as N	mg/L	75-125	1.20		0.23		1	1	97		03/12/2025

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Matrix Spike Summary

Client: Alliance Technical Group, LLC - Newark
SDG No.: Q1505
Project: NJ Waste Water PT
Sample ID: Q1539-02
Client ID: TAPFTA-MW01I-031025-00-T2MSD
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
Ammonia as N	mg/L	75-125	1.20		0.23		1	1	97		03/12/2025

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Matrix Spike Summary

Client: Alliance Technical Group, LLC - Newark
SDG No.: Q1505
Project: NJ Waste Water PT
Sample ID: Q1567-01
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
Phosphorus, Total	mg/L	90-110	0.65		0.19		0.5	1	91		03/14/2025
Orthophosphate as P	mg/L	90-110	0.55		0.12		0.5	1	87	*	03/14/2025

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Matrix Spike Summary

Client: Alliance Technical Group, LLC - Newark
SDG No.: Q1505
Project: NJ Waste Water PT
Sample ID: Q1567-01
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
Phosphorus, Total	mg/L	90-110	0.65		0.19		0.5	1	91		03/14/2025
Orthophosphate as P	mg/L	90-110	0.56		0.12		0.5	1	88	*	03/14/2025

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Matrix Spike Summary

Client: Alliance Technical Group, LLC - Newark
SDG No.: Q1505
Project: NJ Waste Water PT
Sample ID: Q1567-01
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	32.9		12.7		20.0	1	101		03/14/2025

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Matrix Spike Summary

Client: Alliance Technical Group, LLC - Newark
SDG No.: Q1505
Project: NJ Waste Water PT
Sample ID: Q1567-01
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	32.9		12.7		20.0	1	101		03/14/2025

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Matrix Spike Summary

Client: Alliance Technical Group, LLC - Newark
SDG No.: Q1505
Project: NJ Waste Water PT
Sample ID: Q1583-01
Client ID: EFF-WASTE 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
Cyanide	mg/L	75-125	0.036		0.0012	U	0.04	1	90		03/18/2025

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Matrix Spike Summary

Client: Alliance Technical Group, LLC - Newark
SDG No.: Q1505
Project: NJ Waste Water PT
Sample ID: Q1583-01
Client ID: EFF-WASTE 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
Cyanide	mg/L	75-125	0.036		0.0012	U	0.04	1	90		03/18/2025

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Matrix Spike Summary

Client: Alliance Technical Group, LLC - Newark
SDG No.: Q1505
Project: NJ Waste Water PT
Sample ID: Q1588-01
Client ID: TAPFTA-MW01D-031425-00-T1MS
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	22.5	OR	10.4		10	1	121		03/19/2025

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Matrix Spike Summary

Client: Alliance Technical Group, LLC - Newark
SDG No.: Q1505
Project: NJ Waste Water PT
Sample ID: Q1588-01
Client ID: TAPFTA-MW01D-031425-00-T1MSD
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	21.6	OR	10.4		10	1	112		03/19/2025

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Matrix Spike Summary

Client: Alliance Technical Group, LLC - Newark
SDG No.: Q1505
Project: NJ Waste Water PT
Sample ID: Q1604-02
Client ID: FRAC-TANK-N45878MS
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	0.96		0.0030	U	1.0	2	96		03/19/2025
COD	mg/L	75-125	126		84.0		50.0	1	84		03/21/2025

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Matrix Spike Summary

Client: Alliance Technical Group, LLC - Newark
SDG No.: Q1505
Project: NJ Waste Water PT
Sample ID: Q1604-02
Client ID: FRAC-TANK-N45878MSD
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	0.95		0.0030	U	1.0	2	95		03/19/2025
COD	mg/L	75-125	125		84.0		50.0	1	82		03/21/2025

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Matrix Spike Summary

Client: Alliance Technical Group, LLC - Newark
SDG No.: Q1505
Project: NJ Waste Water PT
Sample ID: Q1618-01
Client ID: TP20250320-01MS
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	0.97		0.0030	U	1.0	2	97		03/20/2025

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Matrix Spike Summary

Client: Alliance Technical Group, LLC - Newark
SDG No.: Q1505
Project: NJ Waste Water PT
Sample ID: Q1618-01
Client ID: TP20250320-01MSD
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	0.98		0.0030	U	1.0	2	98		03/20/2025

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Duplicate Sample Summary

Client: Alliance Technical Group, LLC - Newark
SDG No.: Q1505
Project: NJ Waste Water PT
Sample ID: LB135028BS
Client ID: LB135028BSD
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	17.0		17.4		1	2.33		03/14/2025

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Duplicate Sample Summary

Client: Alliance Technical Group, LLC - Newark
SDG No.: Q1505
Project: NJ Waste Water PT
Sample ID: Q1505-07
Client ID: PT-COND-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
Conductance	umho/cm	+/-20	336		335		1	0.3		03/13/2025

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Duplicate Sample Summary

Client: Alliance Technical Group, LLC - Newark
SDG No.: Q1505
Project: NJ Waste Water PT
Sample ID: Q1505-08
Client ID: PT-COND-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
Conductance	umho/cm	+/-20	336		335		1	0.3		03/13/2025

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Duplicate Sample Summary

Client: Alliance Technical Group, LLC - Newark
SDG No.: Q1505
Project: NJ Waste Water PT
Sample ID: Q1505-09
Client ID: PT-COND-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
Conductance	umho/cm	+/-20	336		335		1	0.3		03/13/2025

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Duplicate Sample Summary

Client: Alliance Technical Group, LLC - Newark
SDG No.: Q1505
Project: NJ Waste Water PT
Sample ID: Q1525-01
Client ID: MW10DUP
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
Alkalinity	mg/L	+/-20	154		154		1	0		03/18/2025

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Duplicate Sample Summary

Client: Alliance Technical Group, LLC - Newark
SDG No.: Q1505
Project: NJ Waste Water PT
Sample ID: Q1539-01
Client ID: TAPIAL3-MW03D-031025-00-T1MSD
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	+/-15	57.9	OR	57.9	OR	1	0		03/11/2025
Sulfate	mg/L	+/-15	31.4		30.7		1	2		03/11/2025
Nitrite	mg/L	+/-15	3.00		2.90		1	3		03/11/2025
Nitrate	mg/L	+/-15	2.60		2.50		1	4		03/11/2025
Bromide	mg/L	+/-15	10.4		9.90		1	5		03/11/2025
Fluoride	mg/L	+/-15	2.10		2.00		1	5		03/11/2025
Orthophosphate as P	mg/L	+/-15	2.90		2.70		1	7		03/11/2025

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Duplicate Sample Summary

Client: Alliance Technical Group, LLC - Newark
SDG No.: Q1505
Project: NJ Waste Water PT
Sample ID: Q1539-02
Client ID: TAPFTA-MW01I-031025-00-T2DUP
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
Ammonia as N	mg/L	+/-20	0.23		0.23		1	0		03/12/2025

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Duplicate Sample Summary

Client: Alliance Technical Group, LLC - Newark
SDG No.: Q1505
Project: NJ Waste Water PT
Sample ID: Q1539-02
Client ID: TAPFTA-MW01I-031025-00-T2MSD
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
Ammonia as N	mg/L	+/-20	1.20		1.20		1	0		03/12/2025

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Duplicate Sample Summary

Client: Alliance Technical Group, LLC - Newark
SDG No.: Q1505
Project: NJ Waste Water PT
Sample ID: Q1541-01
Client ID: 205703DUP
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	6.35		6.36		1	0.16		03/11/2025

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Duplicate Sample Summary

Client: Alliance Technical Group, LLC - Newark
SDG No.: Q1505
Project: NJ Waste Water PT
Sample ID: Q1567-01
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	0.12		0.12		1	2.49		03/14/2025
Phosphorus, Total	mg/L	+/-20	0.19		0.19		1	1.57		03/14/2025

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Duplicate Sample Summary

Client: Alliance Technical Group, LLC - Newark
SDG No.: Q1505
Project: NJ Waste Water PT
Sample ID: Q1567-01
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	0.55		0.56		1	0.54		03/14/2025
Phosphorus, Total	mg/L	+/-20	0.65		0.65		1	0.46		03/14/2025

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Duplicate Sample Summary

Client: Alliance Technical Group, LLC - Newark
SDG No.: Q1505
Project: NJ Waste Water PT
Sample ID: Q1567-01
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	32.9		32.9		1	0		03/14/2025

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Duplicate Sample Summary

Client: Alliance Technical Group, LLC - Newark
SDG No.: Q1505
Project: NJ Waste Water PT
Sample ID: Q1583-01
Client ID: EFF-WASTE 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
Cyanide	mg/L	+/-20	0.0012	U	0.0012	U	1	0		03/18/2025

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Duplicate Sample Summary

Client: Alliance Technical Group, LLC - Newark
SDG No.: Q1505
Project: NJ Waste Water PT
Sample ID: Q1583-01
Client ID: EFF-WASTE 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
Cyanide	mg/L	+/-20	0.036		0.036		1	0		03/18/2025

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Duplicate Sample Summary

Client: Alliance Technical Group, LLC - Newark
SDG No.: Q1505
Project: NJ Waste Water PT
Sample ID: Q1588-01
Client ID: TAPFTA-MW01D-031425-00-T1MSD
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	22.5	OR	21.6	OR	1	4		03/19/2025

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Duplicate Sample Summary

Client: Alliance Technical Group, LLC - Newark
SDG No.: Q1505
Project: NJ Waste Water PT
Sample ID: Q1604-02
Client ID: FRAC-TANK-N45878DUP
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		03/19/2025
COD	mg/L	+/-20	84.0		86.0		1	2.35		03/21/2025

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Duplicate Sample Summary

Client: Alliance Technical Group, LLC - Newark
SDG No.: Q1505
Project: NJ Waste Water PT
Sample ID: Q1604-02
Client ID: FRAC-TANK-N45878MSD
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	0.96		0.95		2	1.04		03/19/2025
COD	mg/L	+/-20	126		125		1	0.8		03/21/2025

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Duplicate Sample Summary

Client: Alliance Technical Group, LLC - Newark
SDG No.: Q1505
Project: NJ Waste Water PT
Sample ID: Q1618-01
Client ID: TP20250320-01DUP
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		03/20/2025

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Duplicate Sample Summary

Client: Alliance Technical Group, LLC - Newark
SDG No.: Q1505
Project: NJ Waste Water PT
Sample ID: Q1618-01
Client ID: TP20250320-01MSD
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	0.97		0.98		2	0.62		03/20/2025

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Duplicate Sample Summary

Client: Alliance Technical Group, LLC - Newark
SDG No.: Q1505
Project: NJ Waste Water PT
Sample ID: Q1717-01
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
TSS	mg/L	+/-5	2300		2300		1	0.17		04/08/2025

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Laboratory Control Sample Summary

Client: Alliance Technical Group, LLC - Newark **SDG No.:** Q1505

Project: NJ Waste Water PT **Run No.:** LB134982

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID LB134982BSW								
Nitrite	mg/L	0.3	0.30		100	1	90-110	03/11/2025

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Laboratory Control Sample Summary

Client: Alliance Technical Group, LLC - Newark **SDG No.:** Q1505

Project: NJ Waste Water PT **Run No.:** LB134998

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID LB134998BS								
Chloride	mg/L	500	490		98	1	90-110	03/12/2025

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Laboratory Control Sample Summary

Client:	Alliance Technical Group, LLC - Newark	**SDG No.:**	Q1505
Project:	NJ Waste Water PT	**Run No.:**	LB135002

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID **LB135002BS**								
BOD5	**mg/L**	**198**	**197**		**99**	**1**	**84.6-115.4**	**03/12/2025**

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Laboratory Control Sample Summary

Client:	Alliance Technical Group, LLC - Newark	**SDG No.:**	Q1505
Project:	NJ Waste Water PT	**Run No.:**	LB135003

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID LB135003BS								
CBOD5	mg/L	198	197		100	1	84.6-115.4	03/12/2025

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Laboratory Control Sample Summary

Client: Alliance Technical Group, LLC - Newark **SDG No.:** Q1505

Project: NJ Waste Water PT **Run No.:** LB135004

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID LB135004BSW								
Bromide	mg/L	10	10.5		105	1	90-110	03/11/2025
Chloride	mg/L	3	3.10		103	1	90-110	03/11/2025
Fluoride	mg/L	2	2.10		105	1	90-110	03/11/2025
Nitrite	mg/L	3	3.10		103	1	90-110	03/11/2025
Nitrate	mg/L	2.5	2.60		104	1	90-110	03/11/2025
Sulfate	mg/L	15	15.5		103	1	90-110	03/11/2025
Orthophosphate as P	mg/L	5	4.70		94	1	90-110	03/11/2025

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Laboratory Control Sample Summary

Client: Alliance Technical Group, LLC - Newark **SDG No.:** Q1505

Project: NJ Waste Water PT **Run No.:** LB135005

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID LB135005BSW								
Bromide	mg/L	10	10.5		105	1	90-110	03/11/2025
Chloride	mg/L	3	3.10		103	1	90-110	03/11/2025
Fluoride	mg/L	2	2.10		105	1	90-110	03/11/2025
Nitrite	mg/L	3	3.10		103	1	90-110	03/11/2025
Nitrate	mg/L	2.5	2.60		104	1	90-110	03/11/2025
Sulfate	mg/L	15	15.5		103	1	90-110	03/11/2025
Orthophosphate as P	mg/L	5	4.70		94	1	90-110	03/11/2025

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Laboratory Control Sample Summary

Client:	Alliance Technical Group, LLC - Newark	**SDG No.:**	Q1505
Project:	NJ Waste Water PT	**Run No.:**	LB135023

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID LB135023BS								
Conductance	umho/cm	1413	1410		100	1	99-101	03/13/2025

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Laboratory Control Sample Summary

Client: Alliance Technical Group, LLC - Newark **SDG No.:** Q1505

Project: NJ Waste Water PT **Run No.:** LB135027

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID LB135027BS								
Oil and Grease	mg/L	20.0	16.9		84	1	78-114	03/14/2025

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Laboratory Control Sample Summary

Client:	Alliance Technical Group, LLC - Newark	**SDG No.:**	Q1505
Project:	NJ Waste Water PT	**Run No.:**	LB135028

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID **LB135028BS**								
TPH	**mg/L**	**20.0**	**17.0**		**85**	**1**	**78-114**	**03/14/2025**

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Laboratory Control Sample Summary

Client:	Alliance Technical Group, LLC - Newark	**SDG No.:**	Q1505
Project:	NJ Waste Water PT	**Run No.:**	LB135028

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID **LB135028BSD**								
TPH	**mg/L**	**20.0**	**17.4**		**87**	**1**	**78-114**	**03/14/2025**

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Laboratory Control Sample Summary

Client: Alliance Technical Group, LLC - Newark **SDG No.:** Q1505

Project: NJ Waste Water PT **Run No.:** LB135037

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID LB135037BS								
Orthophosphate as P	mg/L	0.5	0.51		101	1	90-110	03/14/2025

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Laboratory Control Sample Summary

Client:	Alliance Technical Group, LLC - Newark	**SDG No.:**	Q1505
Project:	NJ Waste Water PT	**Run No.:**	LB135057

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID LB135057BS								
Conductance	umho/cm	1413	1410		100	1	99-101	03/13/2025

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Laboratory Control Sample Summary

Client: Alliance Technical Group, LLC - Newark **SDG No.:** Q1505

Project: NJ Waste Water PT **Run No.:** LB135058

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID LB135058BS								
Conductance	umho/cm	1413	1410		100	1	99-101	03/13/2025

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Laboratory Control Sample Summary

Client:	Alliance Technical Group, LLC - Newark	**SDG No.:**	Q1505
Project:	NJ Waste Water PT	**Run No.:**	LB135065

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID **LB135065BSW**								
Alkalinity	**mg/L**	**50**	**45.0**		**90**	**1**	**80-120**	**03/18/2025**

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Laboratory Control Sample Summary

Client:	Alliance Technical Group, LLC - Newark	**SDG No.:**	Q1505
Project:	NJ Waste Water PT	**Run No.:**	LB135085

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID **LB135085BSW**								
TOC	**mg/L**	**10**	**10.5**		**105**	**1**	**90-110**	**03/19/2025**

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Laboratory Control Sample Summary

Client:	Alliance Technical Group, LLC - Newark	**SDG No.:**	Q1505
Project:	NJ Waste Water PT	**Run No.:**	LB135087

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID LB135087BS								
Residual Chlorine	**mg/L**	**0.4**	**0.42**		**105**	**1**	**90-110**	**03/19/2025**

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Laboratory Control Sample Summary

Client: Alliance Technical Group, LLC - Newark **SDG No.:** Q1505

Project: NJ Waste Water PT **Run No.:** LB135094

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID LB135094BS								
Hexavalent Chromium	mg/L	0.5	0.52		104	1	90-111	03/19/2025

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Laboratory Control Sample Summary

Client: Alliance Technical Group, LLC - Newark **SDG No.:** Q1505

Project: NJ Waste Water PT **Run No.:** LB135113

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID LB135113BS								
Hexavalent Chromium	mg/L	0.5	0.50		100	1	90-111	03/20/2025

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Laboratory Control Sample Summary

Client:	Alliance Technical Group, LLC - Newark	**SDG No.:**	Q1505
Project:	NJ Waste Water PT	**Run No.:**	LB135125

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID **LB135125BSW**								
TOC	mg/L	10	10.5		105	1	90-110	03/19/2025

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

Laboratory Control Sample Summary

Client: Alliance Technical Group, LLC - Newark **SDG No.:** Q1505

Project: NJ Waste Water PT **Run No.:** LB135131

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID LB135131BS								
COD	mg/L	50	49.3		99	1	90-110	03/21/2025

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

Laboratory Control Sample Summary

Client:	Alliance Technical Group, LLC - Newark	**SDG No.:**	Q1505
Project:	NJ Waste Water PT	**Run No.:**	LB135191

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID **LB135191BS**								
Sulfate	**mg/L**	**20**	**19.3**		**96**	**1**	**90-110**	**03/26/2025**

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

Laboratory Control Sample Summary

Client:	Alliance Technical Group, LLC - Newark	**SDG No.:**	Q1505
Project:	NJ Waste Water PT	**Run No.:**	LB135192

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID **LB135192BS**								
Sulfate	**mg/L**	**20**	**19.4**		**97**	**1**	**90-110**	**03/26/2025**

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

Laboratory Control Sample Summary

Client:	Alliance Technical Group, LLC - Newark	**SDG No.:**	Q1505
Project:	NJ Waste Water PT	**Run No.:**	LB135334

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID **LB135334BS**								
TSS	**mg/L**	**550**	**533**		**97**	**1**	**90-110**	**04/08/2025**

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

Laboratory Control Sample Summary

Client:	Alliance Technical Group, LLC - Newark	**SDG No.:**	Q1505
Project:	NJ Waste Water PT	**Run No.:**	LB135335

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID **LB135335BS**								
TDS	**mg/L**	**100**	**94.0**		**94**	**1**	**90-110**	**04/08/2025**

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

Laboratory Control Sample Summary

Client:	Alliance Technical Group, LLC - Newark	**SDG No.:**	Q1505
Project:	NJ Waste Water PT	**Run No.:**	LB135012

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID PB167063BS								
Ammonia as N	mg/L	1	0.98		98	1	90-110	03/12/2025

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

Laboratory Control Sample Summary

Client: Alliance Technical Group, LLC - Newark **SDG No.:** Q1505

Project: NJ Waste Water PT **Run No.:** LB135041

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID PB167144BS								
Phosphorus, Total	**mg/L**	**0.50**	**0.50**		**99**	**1**	**90-110**	**03/14/2025**

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

Laboratory Control Sample Summary

Client:	Alliance Technical Group, LLC - Newark	**SDG No.:**	Q1505
Project:	NJ Waste Water PT	**Run No.:**	LB135060

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID **PB167174BS**								
Phenolics	**mg/L**	**1**	**0.99**		**99**	**1**	**80-120**	**03/17/2025**

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

Laboratory Control Sample Summary

Client:	Alliance Technical Group, LLC - Newark	**SDG No.:**	Q1505
Project:	NJ Waste Water PT	**Run No.:**	LB135061

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID **PB167175BS**								
Phenolics	**mg/L**	**1**	**0.99**		**99**	**1**	**80-120**	**03/17/2025**

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

Laboratory Control Sample Summary

Client:	Alliance Technical Group, LLC - Newark	**SDG No.:**	Q1505
Project:	NJ Waste Water PT	**Run No.:**	LB135095

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID **PB167190BS**								
TKN	**mg/L**	**5**	**4.80**		**96**	**1**	**90-110**	**03/19/2025**

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

Laboratory Control Sample Summary

Client:	Alliance Technical Group, LLC - Newark	**SDG No.:**	Q1505
Project:	NJ Waste Water PT	**Run No.:**	LB135072

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID **PB167191BS**								
Cyanide	mg/L	0.1	0.095		95	1	85-115	03/18/2025

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

Laboratory Control Sample Summary

Client: Alliance Technical Group, LLC - Newark **SDG No.:** Q1505

Project: NJ Waste Water PT **Run No.:** LB135075

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID PB167192BS								
Cyanide	mg/L	0.1	0.093		93	1	85-115	03/18/2025

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

Laboratory Control Sample Summary

Client: Alliance Technical Group, LLC - Newark **SDG No.:** Q1505

Project: NJ Waste Water PT **Run No.:** LB135073

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID PB167195BS								
Cyanide	mg/L	0.1	0.096		96	1	85-115	03/18/2025

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

Laboratory Control Sample Summary

Client:	Alliance Technical Group, LLC - Newark	**SDG No.:**	Q1505
Project:	NJ Waste Water PT	**Run No.:**	LB135104

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID **PB167198BS**								
Sulfide	**mg/L**	**25**	**22.4**		**90**	**1**	**80-120**	**03/20/2025**

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

Laboratory Control Sample Summary

Client:	Alliance Technical Group, LLC - Newark	**SDG No.:**	Q1505
Project:	NJ Waste Water PT	**Run No.:**	LB135103

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID **PB167199BS**								
Sulfide	mg/L	25	21.4		86	1	80-120	03/20/2025

RAW DATA

Reviewed By:Iwona
On:3/12/2025 9:30:23 AM
Inst Id :Konelab 20
LB :LB134982

Test results | Aquakem 7.2AQ1 | Page: 1

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

Reviewed by : NF

3/11/2025 14:17 | Instrument ID : Konelab

Test: Nitrite

Sample Id	Result	Dil. 1 +	Response	Errors
ICV1	0.302	0.0	0.803	
ICB1	-0.001	0.0	0.005	
CCV1	0.299	0.0	0.795	
CCB1	-0.001	0.0	0.007	
LB134982BLW	-0.001	0.0	0.006	
LB134982BSW	0.298	0.0	0.794	
Q1505-14	2.265	0.0	5.972	Test limit high
Q1505-14DLX5	0.438	0.0	1.162	
RL CHECK	0.010	0.0	0.035	83% (50-150) NF
CCV2	0.295	0.0	0.786	
CCB2	0.002	0.0	0.014	03.11.2025

N	11
Mean	0.355
SD	0.6550
CV%	184.50

Reviewed By:Iwona
On:3/12/2025 9:30:23 AM
Inst Id :Konelab 20
LB :LB134982

Aquakem v. 7.2AQ1
Results from time period:
Tue Mar 11 11:03:11 2025
Tue Mar 11 12:37:18 2025

Sample Id	Sam/Ctr/cA	Test short r	Test type	Result	Result unit	Result date and time	Stat
0.0000PPM	A	Nitrite	P	-0.0003	mg/l	3/11/2025 11:18:42	
0.012PPM	A	Nitrite	P	0.012	mg/l	3/11/2025 11:18:43	
0.024PPM	A	Nitrite	P	0.0228	mg/l	3/11/2025 11:18:44	
0.060PPM	A	Nitrite	P	0.0598	mg/l	3/11/2025 11:18:45	
0.12PPM	A	Nitrite	P	0.1218	mg/l	3/11/2025 11:18:46	
0.30PPM	A	Nitrite	P	0.3005	mg/l	3/11/2025 11:18:47	
0.60PPM	A	Nitrite	P	0.5994	mg/l	3/11/2025 11:18:48	
ICV1	S	Nitrite	P	0.3017	mg/l	3/11/2025 12:10:11	
ICB1	S	Nitrite	P	-0.0013	mg/l	3/11/2025 12:10:13	
CCV1	S	Nitrite	P	0.2985	mg/l	3/11/2025 12:10:14	
CCB1	S	Nitrite	P	-0.0008	mg/l	3/11/2025 12:10:17	
LB134982BLW	S	Nitrite	P	-0.0012	mg/l	3/11/2025 12:10:21	
LB134982BSW	S	Nitrite	P	0.2984	mg/l	3/11/2025 12:13:34	
Q1505-14	S	Nitrite	P	2.2647	mg/l	3/11/2025 12:13:36	
Q1505-14DLX5	S	Nitrite	P	0.438	mg/l	3/11/2025 12:13:37	
RL CHECK	S	Nitrite	P	0.0101	mg/l	3/11/2025 12:37:14	
CCV2	S	Nitrite	P	0.2952	mg/l	3/11/2025 12:37:15	
CCB2	S	Nitrite	P	0.0019	mg/l	3/11/2025 12:37:18	

Reviewed By:Iwona
On:3/12/2025 9:30:23 AM
Inst Id :Konelab 20
LB :LB134982

Calibration results Aquakem 7.2AQ1

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

Reviewed by : NF Instrument ID : Konelab

3/11/2025 11:23

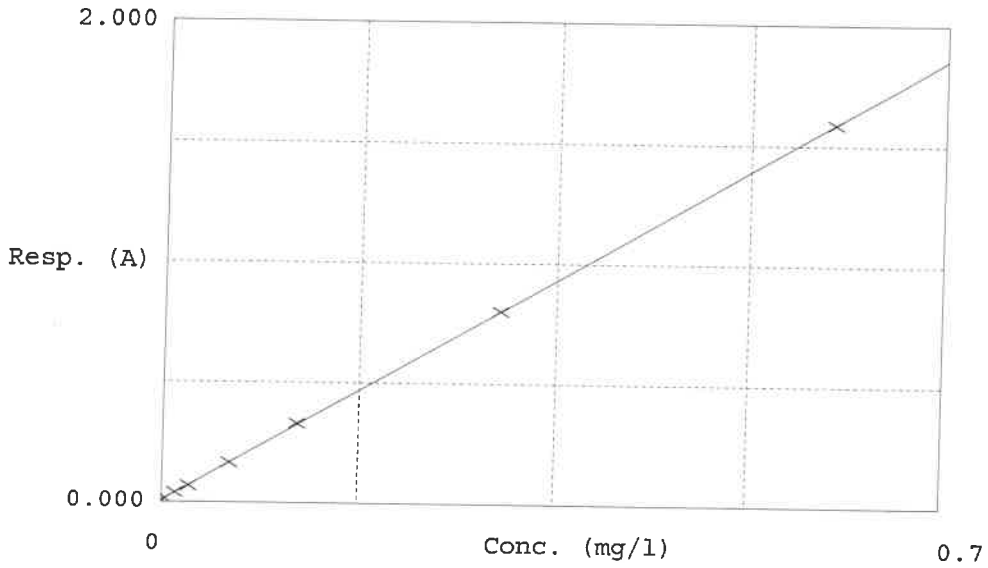
Test Nitrite

Accepted 3/11/2025 11:23

Factor 0.380
Bias 0.009

Coeff. of det. 0.999981

Errors



	Calibrator	Response	Calc. con.	Conc.	Errors
1	0.00PPM	0.008	-0.0003	0.0000	
2	NITRITE0.6	0.040	0.0120	0.0120	0.0
3	NITRITE0.6	0.069	0.0228	0.0240	-5.0
4	NITRITE0.6	0.166	0.0598	0.0600	-0.3
5	NITRITE0.6	0.329	0.1218	0.1200	1.5
6	NITRITE0.6	0.800	0.3005	0.3000	0.2
7	NITRITE0.6	1.587	0.5994	0.6000	-0.1

Re

NF
03.11.2025

Reviewed By:Iwona
On:3/11/2025 1:19:49 PM
Inst Id :WC PH METER-1

Analytical Summary Report

Analysis Method: 9040C
Analyst By : jignesh
Parameter: pH
Supervisor Review By : Iwona
Run Number: LB134984
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)	W3161
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	20.2	4.01	03/11/2025	12:30
2	CAL2	1	Water	NA	NA	20.2	7.00	03/11/2025	12:31
3	CAL3	1	Water	NA	NA	20.2	10.02	03/11/2025	12:33
4	ICV	1	Water	NA	NA	20.3	6.99	03/11/2025	12:37
5	CCV1	1	Water	NA	NA	20.2	2.01	03/11/2025	12:40
6	Q1505-20	1	Water	NA	NA	23.4	5.45	03/11/2025	12:50
7	Q1541-01	1	Water	NA	NA	20.3	6.35	03/11/2025	13:00
8	Q1541-01DUP	1	Water	NA	NA	20.4	6.36	03/11/2025	13:01
9	CCV2	1	Water	NA	NA	20.3	12.02	03/11/2025	13:10

WORKLIST(Hardcopy Internal Chain)

VB 134984

WorkList Name : PH W Q1541 **WorkList ID :** 188197 **Department :** Wet-Chemistry **Date :** 03-11-2025 11:21:31

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1505-20	PT-PH-WP	Water	pH	Cool 4 deg C	ALLI03	QA Of	03/03/2025	9040C
Q1541-01 – D	205703	Water	pH	Cool 4 deg C	PSEG03	H31	03/11/2025	9040C

Date/Time 03/11/25 12:10
Raw Sample Received by: [illegible]
Raw Sample Relinquished by: RM SM

Date/Time 03/11/25 15:00
Raw Sample Received by: RM SM
Raw Sample Relinquished by: [illegible]

Reviewed By:Iwona
On:3/11/2025 1:19:49 PM
Inst Id :WC PH METER-1

Reviewed By:Iwona
On:3/11/2025 1:19:39 PM
Inst Id :WC PH METER-1

Analytical Summary Report

Analysis Method: SM 4500-H B
Parameter: pH
Run Number: LB134985

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)	W3161
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	20.2	4.01	03/11/2025	12:30
2	CAL2	1	Water	NA	NA	20.2	7.00	03/11/2025	12:31
3	CAL3	1	Water	NA	NA	20.2	10.02	03/11/2025	12:33
4	ICV	1	Water	NA	NA	20.3	6.99	03/11/2025	12:37
5	CCV1	1	Water	NA	NA	20.2	2.01	03/11/2025	12:40
6	Q1505-21	1	Water	NA	NA	23.4	5.45	03/11/2025	12:50
7	CCV2	1	Water	NA	NA	20.3	12.02	03/11/2025	13:10

WORKLIST(Hardcopy Internal Chain)

LB 134985

WorkList Name : PH Q1505 W-1 **WorkList ID :** 188199 **Department :** Wet-Chemistry **Date :** 03-11-2025 11:51:46

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1505-21	PT-PH-WP	Water	pH	Cool 4 deg C	ALLI03	QA Of	03/03/2025	SM 4500-H B

Date/Time 03/11/25 12:10
Raw Sample Received by: JB (WC)
Raw Sample Relinquished by: SJ (QAO)

Date/Time 03/11/25 15:00
Raw Sample Received by: NA
Raw Sample Relinquished by: JB (WC)

Reviewed By:Iwona
On:3/11/2025 1:19:39 PM
Inst Id :WC PH METER-1

Reviewed By:Iwona
On:3/11/2025 4:02:56 PM
Inst Id :Imhoff Cone
LB :LB134988

Analytical Summary Report

Analysis Method: SM2540 F
ANALYST: Niha
Parameter: Settleable Solids
SUPERVISOR REVIEW BY: Iwona
Run Number: LB134988

Seq	Lab ID	Dilution	Result (ml/L)	Anal Date	Anal Time
1	Q1505-30	1	44.00	03/11/2025	11:15

LB134988

WORKLIST(Hardcopy Internal Chain)

WorkList Name : SETTLEABLE SOLIDS-0 **WorkList ID :** 188196 **Department :** Wet-Chemistry **Date :** 03-11-2025 10:30:22

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1505-30	PT-SSOL-WP	Water	Settleable Solids	Cool 4 deg C	ALLI03	QA Of	03/03/2025	SM2540 F

Date/Time 03.11.2025 , 10:45

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:3/11/2025 4:02:56 PM
Inst Id :Imhoff Cone
LB :LB134988

Reviewed By:Iwona
On:3/13/2025 11:56:30 AM
Inst Id :Titrametric
LB :LB134998

CHEMTECH

Analytical Summary Report

Analysis Method: SM4500-CL C
Parameter: Chloride
Run Number: LB134998

ANALYST: Niha
SUPERVISOR REVIEW BY: Iwona
Constant: 35450
Normality1: 0.1410

Reagent/Standard	Lot/Log #
HNO3 0.1N for Chloride	WP111873
Chloride LCS Std - 500ppm	WP112272
Mixed indicator reagent for Chloride more than 100ppm	WP112273
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	LB134998BL		1	50	0.00	0.02	0.02	0.00	03/12/2025	12:07
2	LB134998BS	500	1	20	0.00	1.98	1.98	489.85	03/12/2025	12:10
3	Q1505-05		1	50	0.00	1.90	1.90	187.94	03/12/2025	12:13

Titrant Diff = TitrantFinal - TitrantInitial

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

LB134998

WORKLIST(Hardcopy Internal Chain)

WorkList Name : CHLORIDE PT-0312202 **WorkList ID :** 188216 **Department :** Wet-Chemistry **Date :** 03-12-2025 08:23:53

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1505-05	PT-MIN1-WP	Water	Chloride	Cool 4 deg C	ALLI03	QA Of	03/03/2025	SM4500-CL C

Date/Time 03.12.2025 , 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:3/13/2025 11:56:30 AM
Inst Id :Titrametric
LB :LB134998

Reviewed By:Iwona
On:3/18/2025 12:51:47 PM
Inst Id :DO METER
LB :LB135002

BOD5 LOG

ANALYST: rubir
SUPERVISOR: Iwona

QC BATCH ID: LB135002
Analysis Date: 03/12/2025
BOD Water: WP112274
MANGANOUS SULFATE SOLUTION: W3103
Starch: W3149
Alkaline Iodide Azide: W3109
Sulfuric acid, 1N: WP110386
Sodium Thiosulfate, 0.025N: W3105
POLYSEED: WP112276
NaOH, 1N: WP111323
GGA: WP112275
IncubatorID: INCUBATOR #3
Chlorine Strips: W3155
GuageID: 0511062
pH Strips: W3140
Zero DO: WP112277

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	9.7	19.1	9.4	9.4

Meter Calibration1: 9.14 Zero DO Reading1: 0.10 mg/L (<=0.2 Criteria)

Barometric Pressure1: 760 mmHg DO Meter BOD fluid reading for winkler comparison: 9.46

After Incubation

Meter Calibration2: 8.26 Zero DO Reading2: 0.10 mg/L (<=0.2 Criteria)

Barometric Pressure2: 755 mmHg

Reviewed By:Iwona
On:3/18/2025 12:51:47 PM
Inst Id :DO METER
LB :LB135002

Alliance TECHNICAL GROUP

QC BATCH ID: LB135002

INCUBATOR TEMP IN(C): 19.9

INCUBATOR TEMP OUT(C): 20.2

TIME IN: 15:45

TIME OUT: 14:15

DATE IN: 03/12/2025

DATE OUT: 03/17/2025

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
LB135002BL	1	No	6.64	N/A	20.90	300	9.45	9.43	0.02	0.02	0.02	
POLYSEED	1					10	9.39	4.93	4.46	0.89	0.77	
POLYSEED	2					15	9.34	3.50	5.84	0.78		
POLYSEED	3					20	9.31	2.89	6.42	0.64		
GGA	1					6	9.43	4.96	4.47	185	196.67	
GGA	2					6	9.43	4.70	4.73	198		
GGA	3					6	9.41	4.50	4.91	207		
Q1505-03	1	No	2.63	7.47	20.80	1	9.45	7.97	-	0	79.8	pH Adjuste
Q1505-03	2					5	9.43	7.50	-	0		
Q1505-03	3					20	9.41	3.32	6.09	79.8		
Q1505-03	4					50	9.39	0.13	-	0		
Q1505-03	5					100	9.35	0.08	-	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.

Reviewed By:Iwona
On:3/18/2025 12:56:11 PM
Inst Id :DO METER
LB :LB135003

CBOD5 LOG

ANALYST: rubir
SUPERVISOR: Iwona

QC BATCH ID: LB135003
Analysis Date: 03/12/2025
BOD Water: WP112274
MANGANOUS SULFATE SOLUTION: W3103
Starch: W3149
Alkaline Iodide Azide: W3109
Sulfuric acid, 1N: WP110386
Sodium Thiosulfate, 0.025N: W3105
POLYSEED: WP112276
NaOH, 1N: WP111323
GGA: WP112275
IncubatorID: INCUBATOR #3
Chlorine Strips: W3155
GuageID: 0511062
pH Strips: W3140
Zero DO: WP112277
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	9.7	19.1	9.4	9.4

Meter Calibration1: 9.14 Zero DO Reading1: 0.10 mg/L (<=0.2 Criteria)

Barometric Pressure1: 760 mmHg DO Meter BOD fluid reading for winkler comparison: 9.46

After Incubation

Meter Calibration2: 8.26 Zero DO Reading2: 0.10 mg/L (<=0.2 Criteria)

Barometric Pressure2: 755 mmHg

Reviewed By:Iwona
On:3/18/2025 12:56:11 PM
Inst Id :DO METER
LB :LB135003

Alliance TECHNICAL GROUP

QC BATCH ID: LB135003

INCUBATOR TEMP IN(C): 19.9

INCUBATOR TEMP OUT(C): 20.2

TIME IN: 15:45

TIME OUT: 14:15

DATE IN: 03/12/2025

DATE OUT: 03/17/2025

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
LB135003BL	1	No	6.64	N/A	20.90	300	9.45	9.43	0.02	0.02	0.02	
POLYSEED	1					10	9.42	4.86	4.56	0.91	0.78	
POLYSEED	2					15	9.37	3.45	5.92	0.79		
POLYSEED	3					20	9.31	2.91	6.4	0.64		
GGA	1					6	9.44	4.93	4.51	186.5	197.17	
GGA	2					6	9.42	4.61	4.81	201.5		
GGA	3					6	9.42	4.57	4.85	203.5		
Q1505-03	1	No	2.63	7.47	20.80	1	9.42	8.62	-	0	74.85	pH Adjuste
Q1505-03	2					5	9.40	7.79	-	0		
Q1505-03	3					20	9.33	3.56	5.77	74.85		
Q1505-03	4					50	9.30	0.43	-	0		
Q1505-03	5					100	9.28	0.08	-	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.

Instrument I IC-1 Analyst : NF Method: 0.0 / 9056A

Ident	Con F-	Con CL-	Con NO2	Con BR-	Con NO3	Con HPO4	Con SO4	Method name	date time	al wt/Fina	Analyst
STD1	0	0	0	0	0	0	0	IC1-022125	2/21/2025 11:05	10	NF/IZ
STD2	0.448	0.678	0.657	2.152	0.544	1.059	3.319	IC1-022125	2/21/2025 11:26	10	NF/IZ
STD3	0.821	1.223	1.216	4.052	1.014	2.009	6.104	IC1-022125	2/21/2025 11:48	10	NF/IZ
STD4	1.013	1.524	1.523	5.08	1.272	2.514	7.612	IC1-022125	2/21/2025 12:09	10	NF/IZ
STD5	1.919	2.879	2.894	9.683	2.411	4.896	14.423	IC1-022125	2/21/2025 12:31	10	NF/IZ
STD6	3.884	5.815	5.898	19.712	4.921	9.947	29.333	IC1-022125	2/21/2025 12:52	10	NF/IZ
STD7	5.115	7.682	7.613	25.321	6.339	12.575	37.71	IC1-022125	2/21/2025 13:13	10	NF/IZ
ICV	2.008	2.989	3.015	10.228	2.532	5.141	15.146	IC1-022125	2/21/2025 13:35	10	NF/IZ
ICB	0	0	0	0	0	0	0	IC1-022125	2/21/2025 13:56	10	NF/IZ
CCV	2.051	3.096	3.083	10.45	2.611	4.63	15.543	IC1-022125	3/11/2025 10:41	10	NF/IZ
CCB	0	0	0	0	0	0	0	IC1-022125	3/11/2025 11:02	10	NF/IZ
LB135004BLW	0	0	0	0	0	0	0	IC1-022125	3/11/2025 11:24	10	NF/IZ
LB135004BSW	2.055	3.102	3.11	10.478	2.617	4.736	15.49	IC1-022125	3/11/2025 11:45	10	NF/IZ
Q1505-05	2.953	279.3	0	9.129	0	0	97.641	IC1-022125	3/11/2025 12:10	10	NF/IZ
Q1505-11	0	8.158	0	0	21.249	4.821	0	IC1-022125	3/11/2025 12:32	10	NF/IZ
Q1505-15	0	0.186	2.238	0	0	0	0	IC1-022125	3/11/2025 12:53	10	NF/IZ
Q1505-05DLX10	0.355	20.499	0	1.13	0	0	9.034	IC1-022125	3/11/2025 13:15	10	NF/IZ
Q1505-05DL2X50	0.134	3.852	0	0.426	0	0	2.264	IC1-022125	3/11/2025 13:36	10	NF/IZ
Q1505-11DLX10	0	0.861	0	0	1.869	0.543	0	IC1-022125	3/11/2025 13:58	10	NF/IZ
CCV	2.077	3.108	3.1	10.505	2.622	5.312	15.508	IC1-022125	3/11/2025 14:19	10	NF/IZ
CCB	0	0	0	0	0	0	0	IC1-022125	3/11/2025 14:41	10	NF/IZ

Reviewed By:Iwona
On:3/13/2025 1:56:09 PM
Inst Id :IC-2
LB :LB135004

Clear table

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

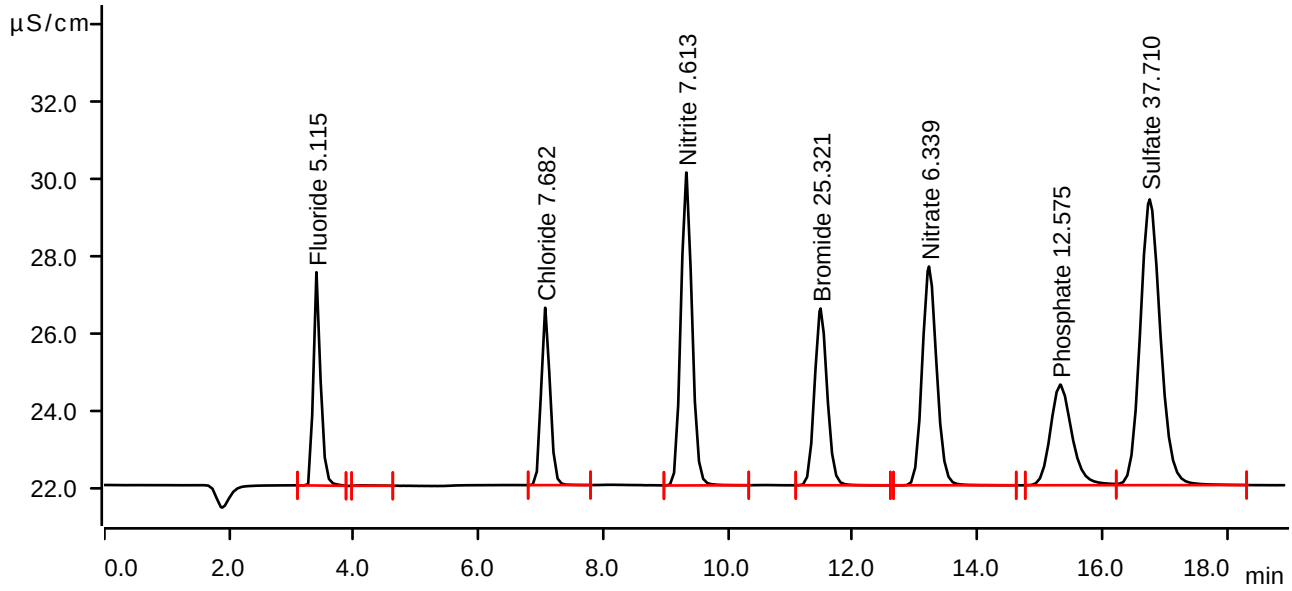
ident	concentration F-	concentration CL-	concentration NO2	concentration BR-	concentration NO3	concentration HPO4	concentration SO4	file name	date time	Initial wt/ Final	Analyst
STD1	0	0	0	0	0	0	0	IC1-022125	2/21/2025 11:05	10	NF/IZ
STD2	0.448	0.678	0.657	2.152	0.544	1.059	3.319	IC1-022125	2/21/2025 11:26	10	NF/IZ
STD3	0.821	1.223	1.216	4.052	1.014	2.009	6.104	IC1-022125	2/21/2025 11:48	10	NF/IZ
STD4	1.013	1.524	1.523	5.08	1.272	2.514	7.612	IC1-022125	2/21/2025 12:09	10	NF/IZ
STD5	1.919	2.879	2.894	9.683	2.411	4.896	14.423	IC1-022125	2/21/2025 12:31	10	NF/IZ
STD6	3.884	5.815	5.898	19.712	4.921	9.947	29.333	IC1-022125	2/21/2025 12:52	10	NF/IZ
STD7	5.115	7.682	7.613	25.321	6.339	12.575	37.71	IC1-022125	2/21/2025 13:13	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	12.0000	13.0000	9.5000	7.6000	8.8000	5.9000	10.6333
STD3	2.6250	1.9167	1.3333	1.3000	1.4000	0.4500	1.7333
STD4	1.3000	1.6000	1.5333	1.6000	1.7600	0.5600	1.4933
STD5	-4.0500	-4.0333	-3.5333	-3.1700	-3.5600	-2.0800	-3.8467
STD6	-2.9000	-3.0833	-1.7000	-1.4400	-1.5800	-0.5300	-2.2233
STD7	2.3000	2.4267	1.5067	1.2840	1.4240	0.6000	1.9189

Reviewed By:Iwona
On:3/13/2025 1:56:09 PM
Inst Id :IC-2
LB :LB135004

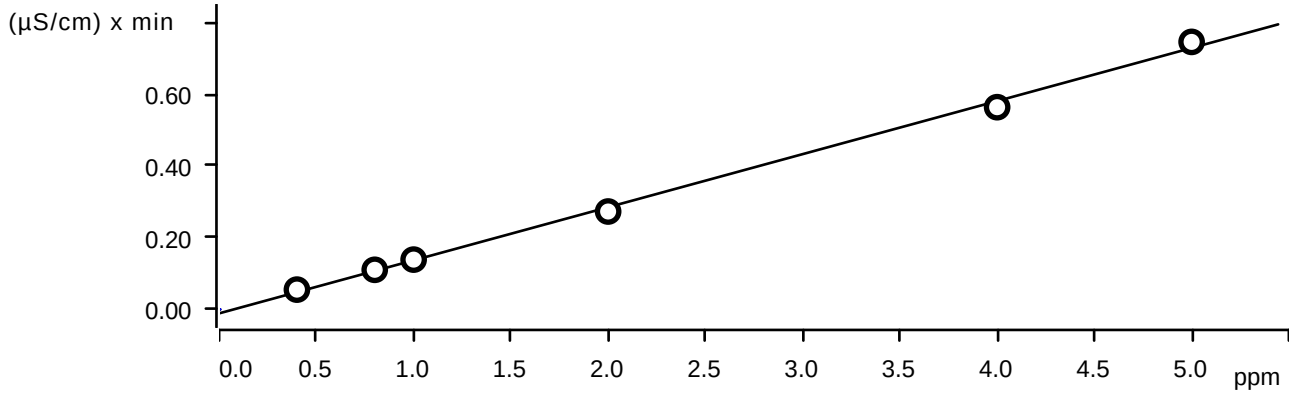
Anions



Peak number	Retention time min	Area (µS/cm) x min	Height µS/cm	Concentration ppm	Component name
1	3.400	0.7457	5.535	5.115	Fluoride
2	4.197	0.0046	0.012	invalid	
3	7.070	0.7592	4.602	7.682	Chloride
4	9.330	1.6810	8.120	7.613	Nitrite
5	11.483	1.0784	4.588	25.321	Bromide
6	13.222	1.5233	5.678	6.339	Nitrate
7	15.325	1.0441	2.611	12.575	Phosphate
8	16.760	2.7982	7.416	37.710	Sulfate

Reviewed By:Iwon
On:3/13/2025 1:56 PM
Inst Id :IC-2
LB :LB135004

Fluoride (Anions)



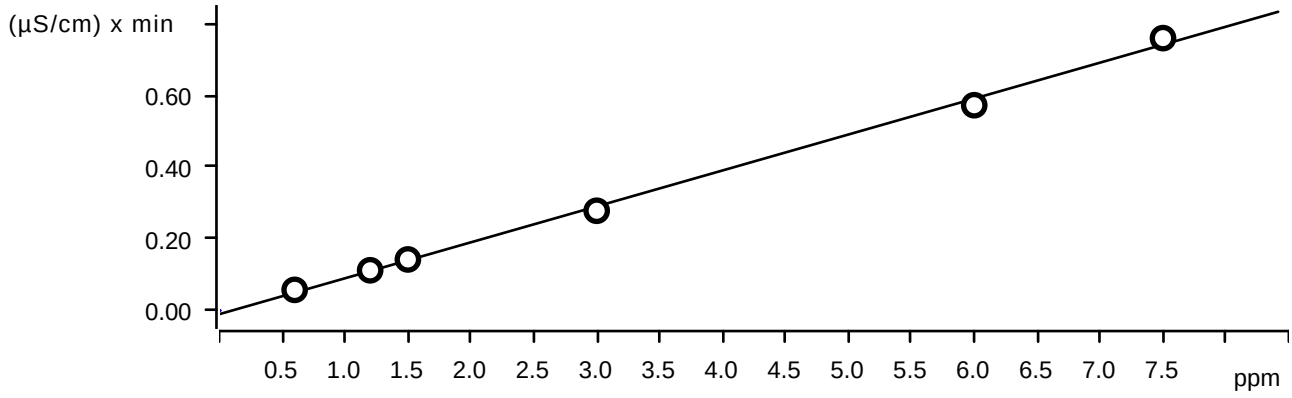
Function: . . . . . *A = - 0.0112463 + 0.0147980× Q*

Relative standard deviation . . . . . *4.464159 %*

Correlation coefficient *0.998989*

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	2025-02-21 11:05:25 UTC-5	used
Standard 2	1	0.400	10.0	1.0	1.0	0.055	STD2	2025-02-21 11:26:47 UTC-5	used
Standard 3	1	0.800	10.0	1.0	1.0	0.110	STD3	2025-02-21 11:48:11 UTC-5	used
Standard 4	1	1.000	10.0	1.0	1.0	0.139	STD4	2025-02-21 12:09:35 UTC-5	used
Standard 5	1	2.000	10.0	1.0	1.0	0.273	STD5	2025-02-21 12:31:01 UTC-5	used
Standard 6	1	4.000	10.0	1.0	1.0	0.564	STD6	2025-02-21 12:52:27 UTC-5	used
Standard 7	1	5.000	10.0	1.0	1.0	0.746	STD7	2025-02-21 13:13:53 UTC-5	used

Chloride (Anions)



Function: . . . . . *A = - 0.0105167 + 0.0100207× Q*

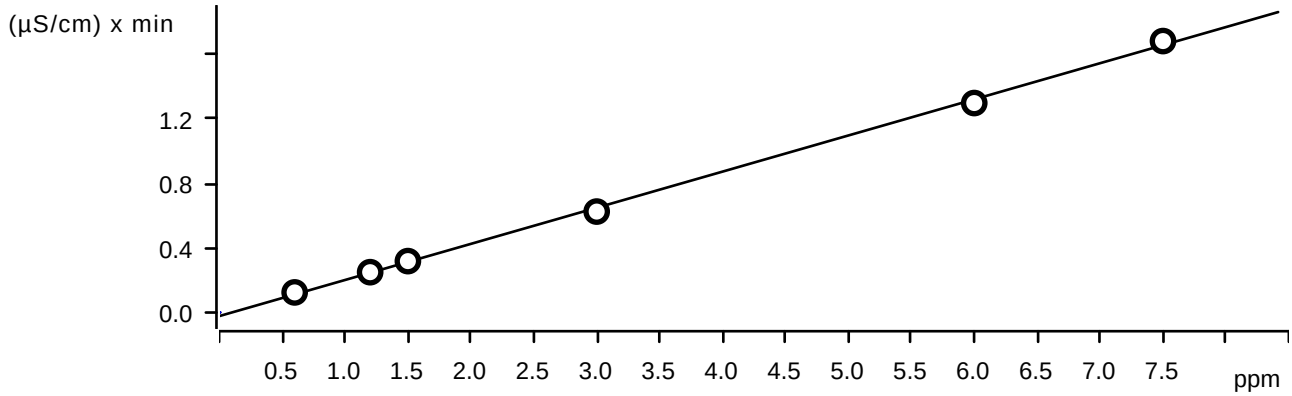
Reviewed By:Iwon
On:3/13/2025 1:56
PM
Inst Id :IC-2
LB :LB135004

Relative standard deviation . . . . . *4.669067 %*

Correlation coefficient *0.998888*

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	2025-02-21 11:05:25 UTC-5	used
Standard 2	1	0.600	10.0	1.0	1.0	0.057	STD2	2025-02-21 11:26:47 UTC-5	used
Standard 3	1	1.200	10.0	1.0	1.0	0.112	STD3	2025-02-21 11:48:11 UTC-5	used
Standard 4	1	1.500	10.0	1.0	1.0	0.142	STD4	2025-02-21 12:09:35 UTC-5	used
Standard 5	1	3.000	10.0	1.0	1.0	0.278	STD5	2025-02-21 12:31:01 UTC-5	used
Standard 6	1	6.000	10.0	1.0	1.0	0.572	STD6	2025-02-21 12:52:27 UTC-5	used
Standard 7	1	7.500	10.0	1.0	1.0	0.759	STD7	2025-02-21 13:13:53 UTC-5	used

Nitrite (Anions)



Function: . . . . . *A = - 0.0232250 + 0.0223870× Q*

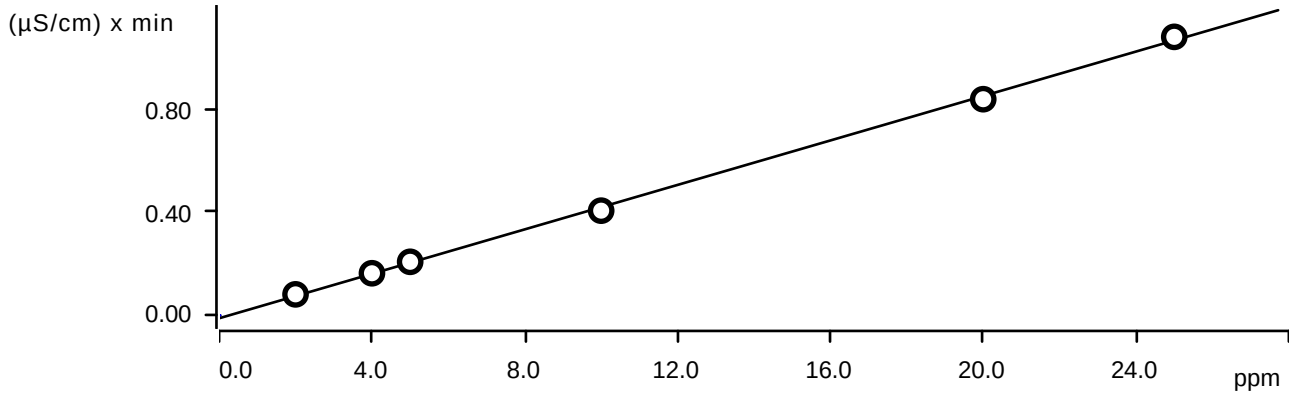
Relative standard deviation . . . . . *3.068725 %*

Correlation coefficient *0.999519*

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	2025-02-21 11:05:25 UTC-5	used
Standard 2	1	0.600	10.0	1.0	1.0	0.124	STD2	2025-02-21 11:26:47 UTC-5	used
Standard 3	1	1.200	10.0	1.0	1.0	0.249	STD3	2025-02-21 11:48:11 UTC-5	used
Standard 4	1	1.500	10.0	1.0	1.0	0.318	STD4	2025-02-21 12:09:35 UTC-5	used
Standard 5	1	3.000	10.0	1.0	1.0	0.625	STD5	2025-02-21 12:31:01 UTC-5	used
Standard 6	1	6.000	10.0	1.0	1.0	1.297	STD6	2025-02-21 12:52:27 UTC-5	used
Standard 7	1	7.500	10.0	1.0	1.0	1.681	STD7	2025-02-21 13:13:53 UTC-5	used

Reviewed By:Iwon
On:3/13/2025 1:56 PM
Inst Id :IC-2
LB :LB135004

Bromide (Anions)



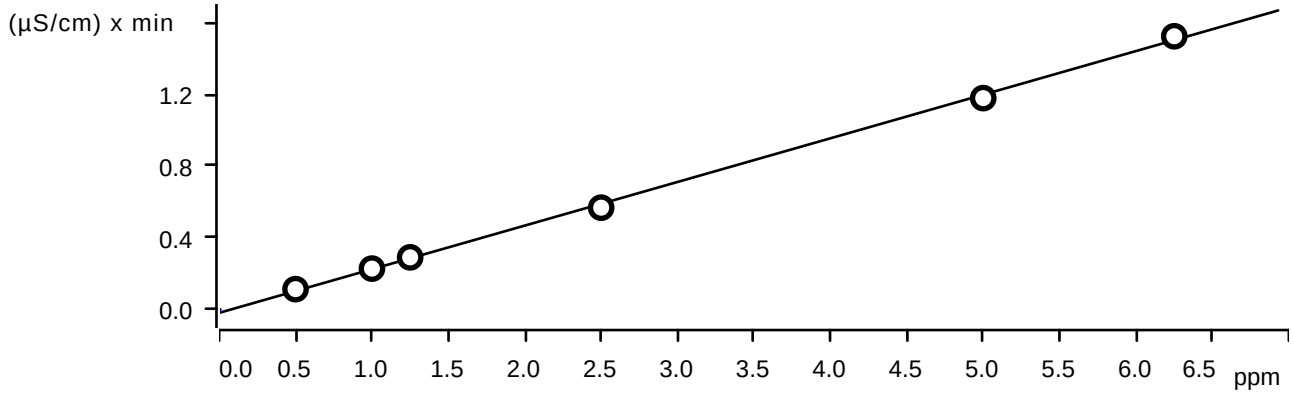
Function: . . . . . *A = - 0.0113202 + 4.30364E-3× Q*

Relative standard deviation . . . . . *2.628989 %*

Correlation coefficient *0.999641*

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	2025-02-21 11:05:25 UTC-5	used
Standard 2	1	2.000	10.0	1.0	1.0	0.081	STD2	2025-02-21 11:26:47 UTC-5	used
Standard 3	1	4.000	10.0	1.0	1.0	0.163	STD3	2025-02-21 11:48:11 UTC-5	used
Standard 4	1	5.000	10.0	1.0	1.0	0.207	STD4	2025-02-21 12:09:35 UTC-5	used
Standard 5	1	10.000	10.0	1.0	1.0	0.405	STD5	2025-02-21 12:31:01 UTC-5	used
Standard 6	1	20.000	10.0	1.0	1.0	0.837	STD6	2025-02-21 12:52:27 UTC-5	used
Standard 7	1	25.000	10.0	1.0	1.0	1.078	STD7	2025-02-21 13:13:53 UTC-5	used

Nitrate (Anions)



Function: . . . . . *A = - 0.0190446 + 0.0243327× Q*

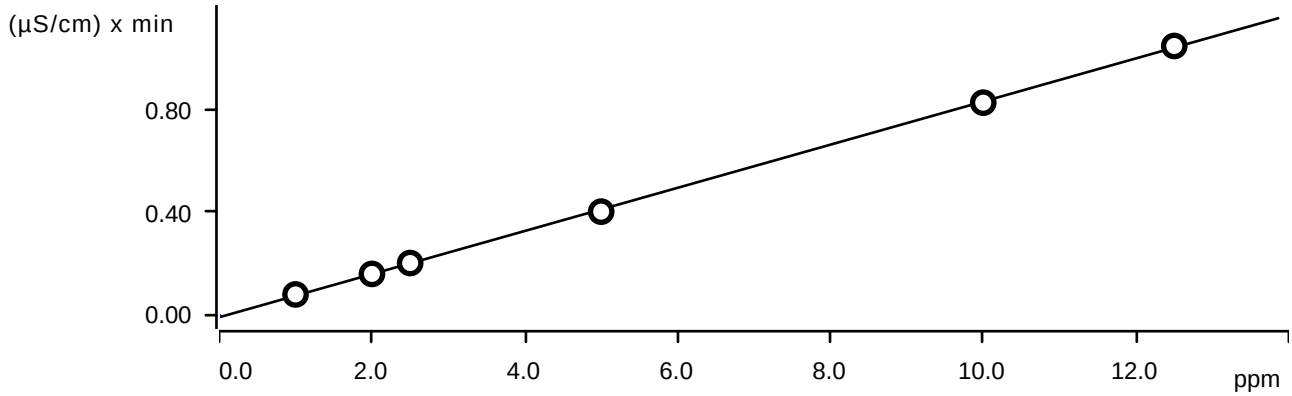
Relative standard deviation . . . . . *2.936394 %*

Reviewed By:Iwon
On:3/13/2025 1:56
PM
Inst Id :IC-2
LB :LB135004

Correlation coefficient *0.999557*

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	2025-02-21 11:05:25 UTC-5	used
Standard 2	1	0.500	10.0	1.0	1.0	0.113	STD2	2025-02-21 11:26:47 UTC-5	used
Standard 3	1	1.000	10.0	1.0	1.0	0.228	STD3	2025-02-21 11:48:11 UTC-5	used
Standard 4	1	1.250	10.0	1.0	1.0	0.290	STD4	2025-02-21 12:09:35 UTC-5	used
Standard 5	1	2.500	10.0	1.0	1.0	0.568	STD5	2025-02-21 12:31:01 UTC-5	used
Standard 6	1	5.000	10.0	1.0	1.0	1.178	STD6	2025-02-21 12:52:27 UTC-5	used
Standard 7	1	6.250	10.0	1.0	1.0	1.523	STD7	2025-02-21 13:13:53 UTC-5	used

Phosphate (Anions)



Function: . . . . . *A = - 6.44326E-3 + 8.35469E-3× Q*

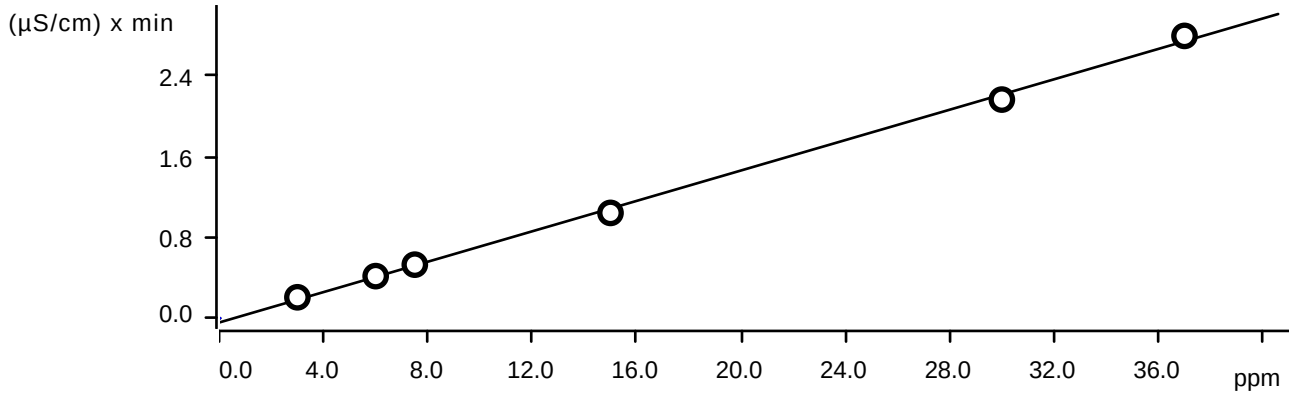
Relative standard deviation . . . . . *1.393773 %*

Correlation coefficient *0.999897*

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	2025-02-21 11:05:25 UTC-5	used
Standard 2	1	1.000	10.0	1.0	1.0	0.082	STD2	2025-02-21 11:26:47 UTC-5	used
Standard 3	1	2.000	10.0	1.0	1.0	0.161	STD3	2025-02-21 11:48:11 UTC-5	used
Standard 4	1	2.500	10.0	1.0	1.0	0.204	STD4	2025-02-21 12:09:35 UTC-5	used
Standard 5	1	5.000	10.0	1.0	1.0	0.403	STD5	2025-02-21 12:31:01 UTC-5	used
Standard 6	1	10.000	10.0	1.0	1.0	0.825	STD6	2025-02-21 12:52:27 UTC-5	used
Standard 7	1	12.500	10.0	1.0	1.0	1.044	STD7	2025-02-21 13:13:53 UTC-5	used

Reviewed By:Iwon
On:3/13/2025 1:56 PM
Inst Id :IC-2
LB :LB135004

Sulfate (Anions)



Function: . . . . . *A = - 0.0430107 + 7.53437E-3× Q*

Relative standard deviation . . . . . *3.742757 %*

Correlation coefficient *0.999282*

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	2025-02-21 11:05:25 UTC-5	used
Standard 2	1	3.000	10.0	1.0	1.0	0.207	STD2	2025-02-21 11:26:47 UTC-5	used
Standard 3	1	6.000	10.0	1.0	1.0	0.417	STD3	2025-02-21 11:48:11 UTC-5	used
Standard 4	1	7.500	10.0	1.0	1.0	0.531	STD4	2025-02-21 12:09:35 UTC-5	used
Standard 5	1	15.000	10.0	1.0	1.0	1.044	STD5	2025-02-21 12:31:01 UTC-5	used
Standard 6	1	30.000	10.0	1.0	1.0	2.167	STD6	2025-02-21 12:52:27 UTC-5	used
Standard 7	1	37.000	10.0	1.0	1.0	2.798	STD7	2025-02-21 13:13:53 UTC-5	used

Reviewed By:Iwon
On:3/13/2025 1:56 PM
Inst Id :IC-2
LB :LB135004

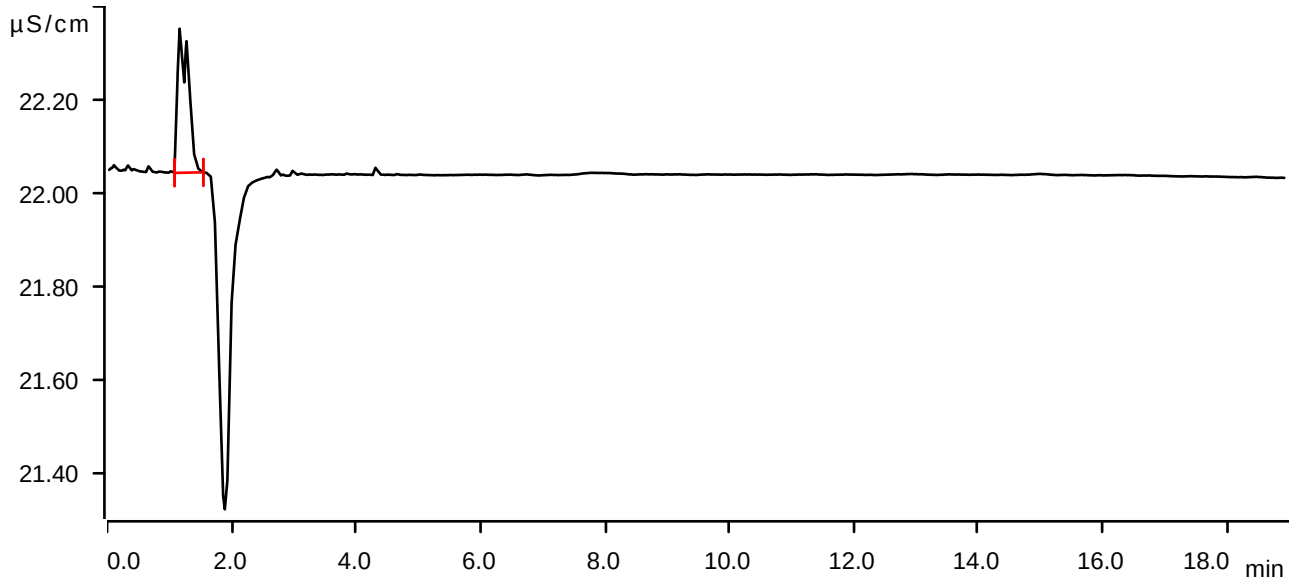
Sample data

Ident	STD1
Sample type	Standard 1
Determination start	2025-02-21 11:05:25 UTC-5
Method	IC1-022125
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	1.167	0.0607	0.309	invalid	

Reviewed By:Iwon
On:3/13/2025 1:56
PM
Inst Id :IC-2
LB :LB135004

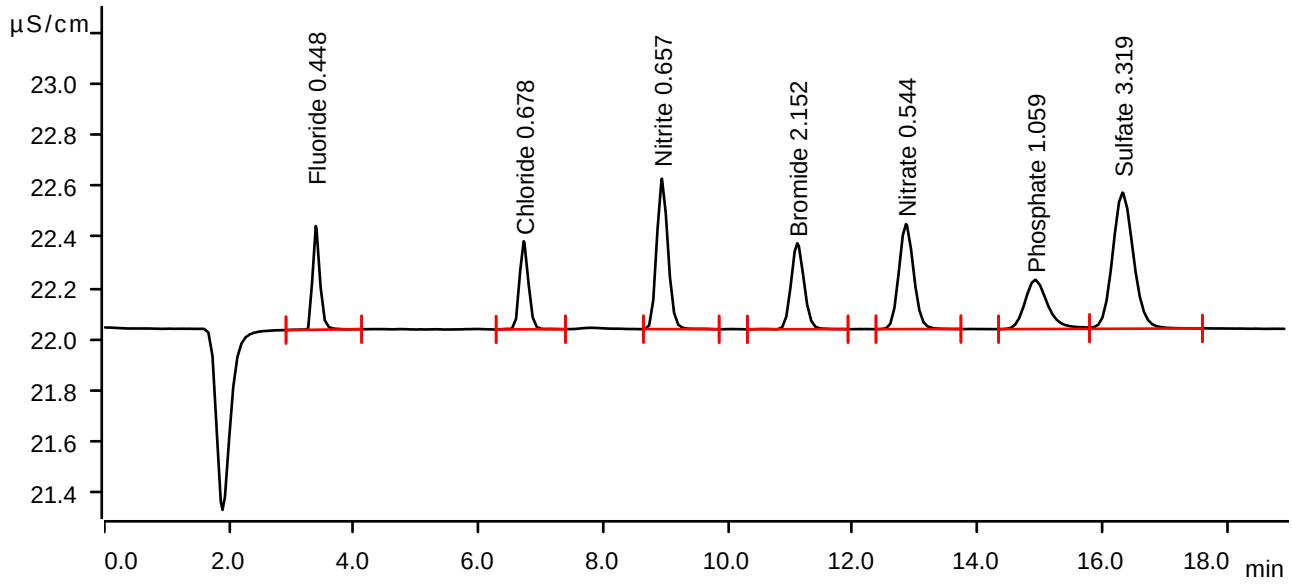
Sample data

Ident	STD2
Sample type	Standard 2
Determination start	2025-02-21 11:26:47 UTC-5
Method	IC1-022125
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	3.390	0.0550	0.405	0.448	Fluoride
2	6.723	0.0574	0.344	0.678	Chloride
3	8.940	0.1238	0.587	0.657	Nitrite
4	11.110	0.0813	0.336	2.152	Bromide
5	12.852	0.1132	0.410	0.544	Nitrate
6	14.923	0.0820	0.192	1.059	Phosphate
7	16.323	0.2071	0.531	3.319	Sulfate

Metrohm

Reviewed By:Iwon
On:3/13/2025 1:56
PM
Inst Id :IC-2
LB :LB135004

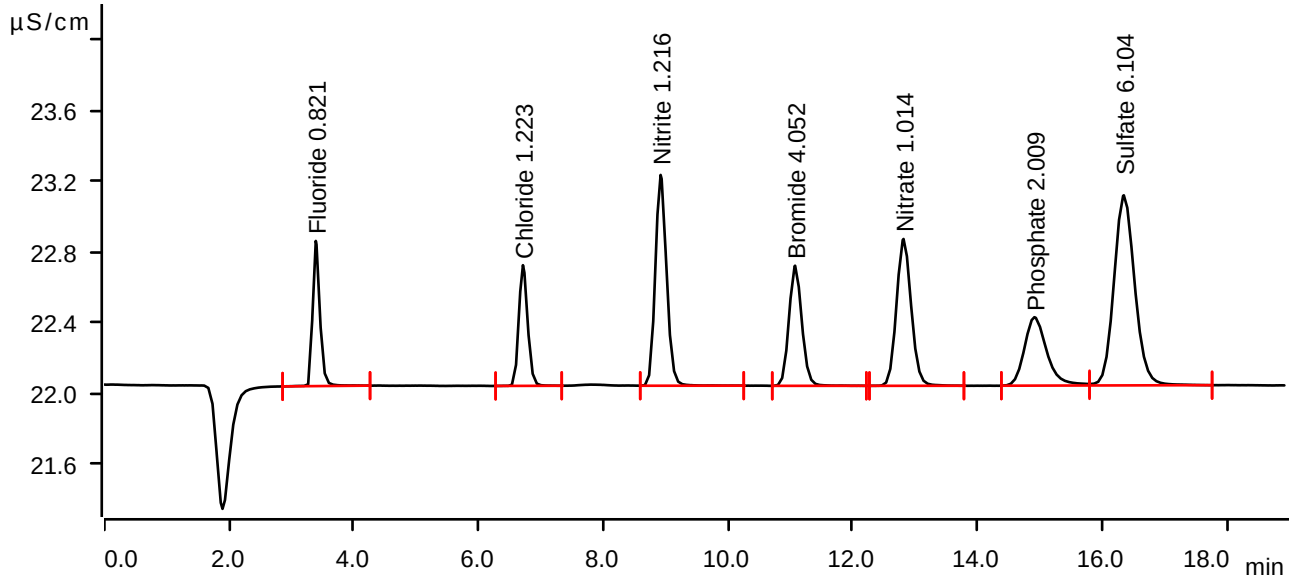
Sample data

Ident	STD3
Sample type	Standard 3
Determination start	2025-02-21 11:48:11 UTC-5
Method	IC1-022125
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	11.94	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	3.390	0.1102	0.822	0.821	Fluoride
2	6.712	0.1120	0.683	1.223	Chloride
3	8.918	0.2491	1.193	1.216	Nitrite
4	11.075	0.1631	0.680	4.052	Bromide
5	12.813	0.2277	0.831	1.014	Nitrate
6	14.912	0.1614	0.387	2.009	Phosphate
7	16.345	0.4169	1.076	6.104	Sulfate

Reviewed By:Iwon
On:3/13/2025 1:56
PM
Inst Id :IC-2
LB :LB135004

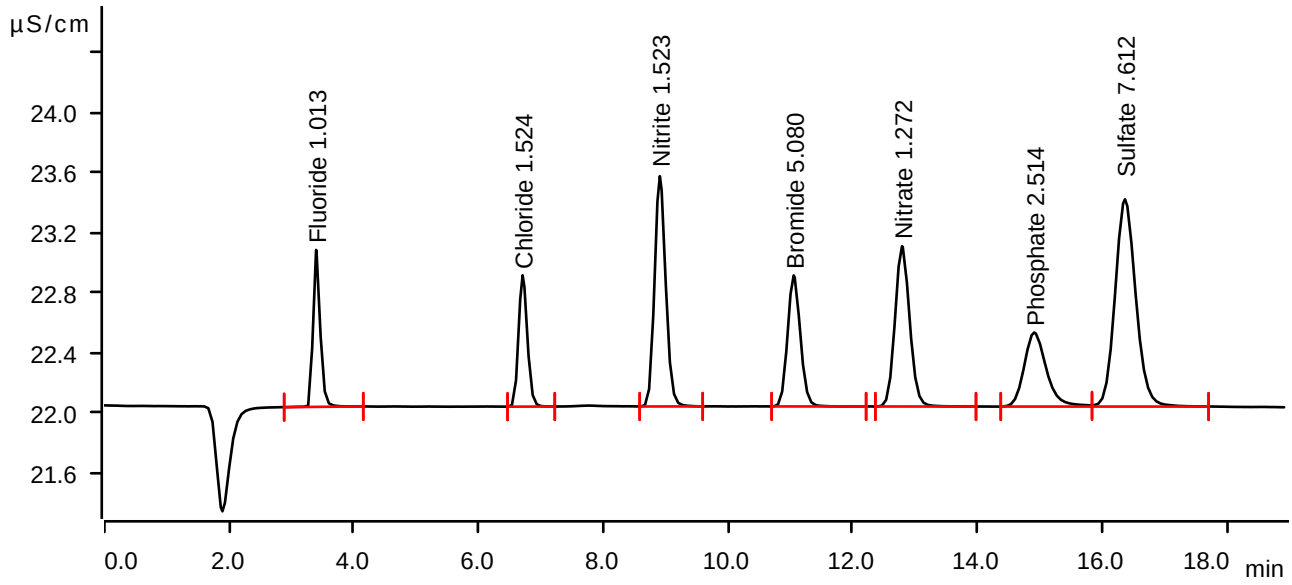
Sample data

Ident	STD4
Sample type	Standard 4
Determination start	2025-02-21 12:09:35 UTC-5
Method	IC1-022125
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	11.94	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	3.395	0.1386	1.042	1.013	Fluoride
2	6.707	0.1422	0.872	1.524	Chloride
3	8.907	0.3178	1.529	1.523	Nitrite
4	11.052	0.2073	0.870	5.080	Bromide
5	12.788	0.2904	1.064	1.272	Nitrate
6	14.908	0.2036	0.492	2.514	Phosphate
7	16.363	0.5305	1.376	7.612	Sulfate

Reviewed By:Iwon
On:3/13/2025 1:56
PM
Inst Id :IC-2
LB :LB135004

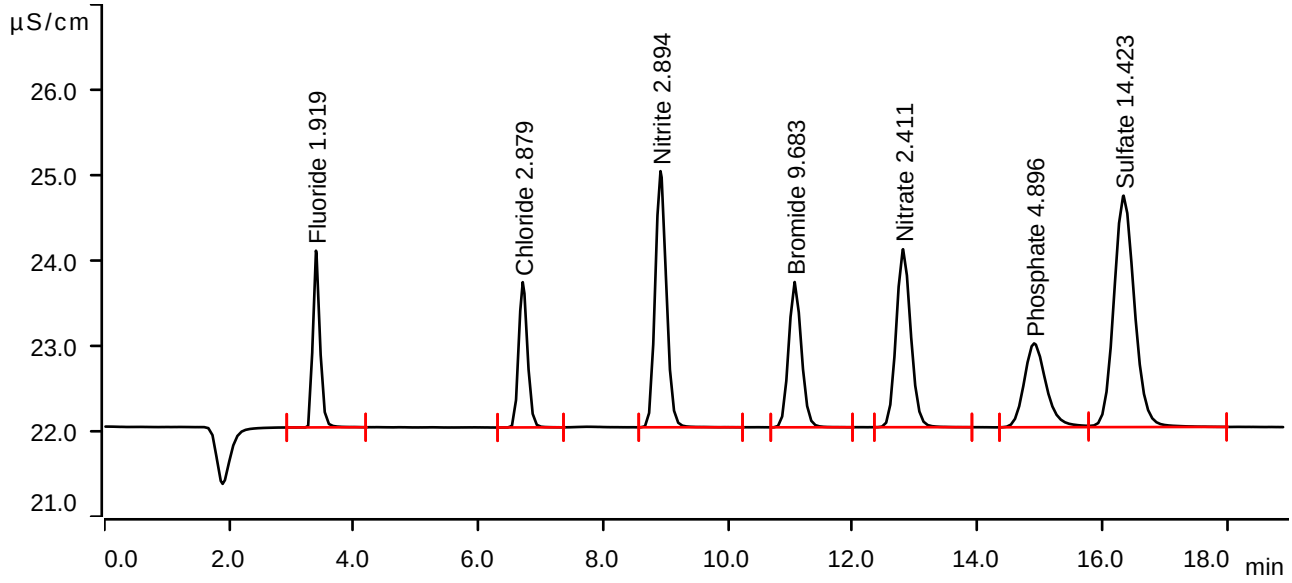
Sample data

Ident	STD5
Sample type	Standard 5
Determination start	2025-02-21 12:31:01 UTC-5
Method	IC1-022125
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	3.393	0.2728	2.069	1.919	Fluoride
2	6.708	0.2780	1.702	2.879	Chloride
3	8.917	0.6246	3.000	2.894	Nitrite
4	11.068	0.4054	1.702	9.683	Bromide
5	12.807	0.5675	2.085	2.411	Nitrate
6	14.907	0.4026	0.982	4.896	Phosphate
7	16.342	1.0436	2.711	14.423	Sulfate

Metrohm

Reviewed By:Iwon
On:3/13/2025 1:56
PM
Inst Id :IC-2
LB :LB135004

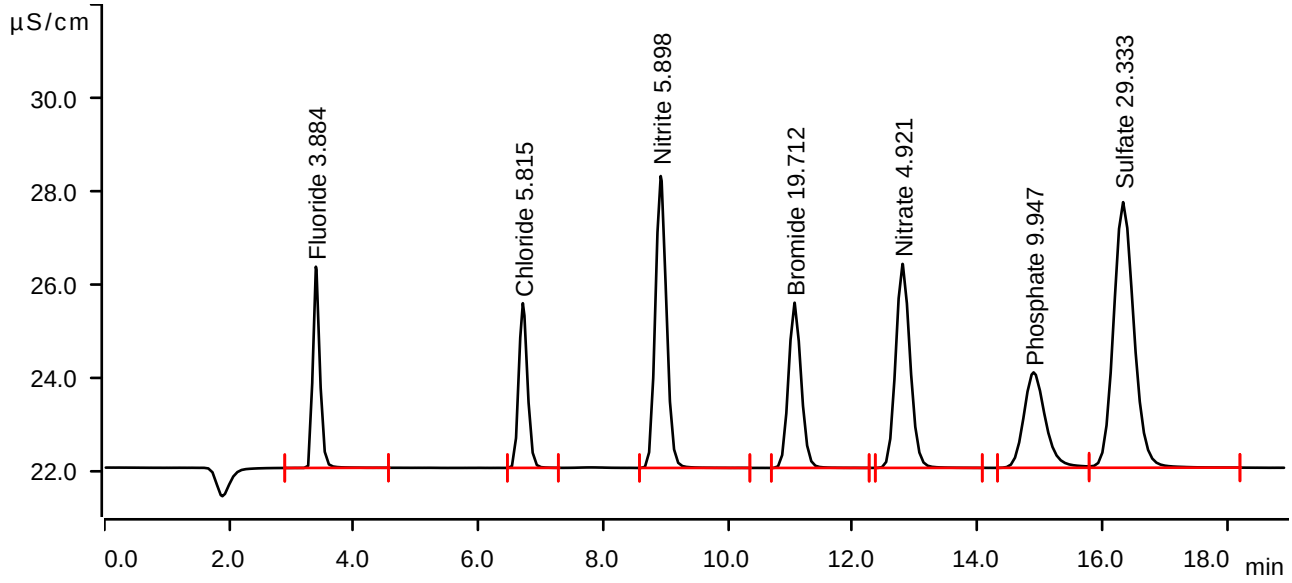
Sample data

Ident	STD6
Sample type	Standard 6
Determination start	2025-02-21 12:52:27 UTC-5
Method	IC1-022125
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	11.94	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	3.392	0.5636	4.320	3.884	Fluoride
2	6.710	0.5722	3.536	5.815	Chloride
3	8.920	1.2971	6.268	5.898	Nitrite
4	11.065	0.8370	3.548	19.712	Bromide
5	12.797	1.1784	4.381	4.921	Nitrate
6	14.898	0.8246	2.050	9.947	Phosphate
7	16.333	2.1670	5.703	29.333	Sulfate

Reviewed By:Iwon
On:3/13/2025 1:56
PM
Inst Id :IC-2
LB :LB135004

Sample data

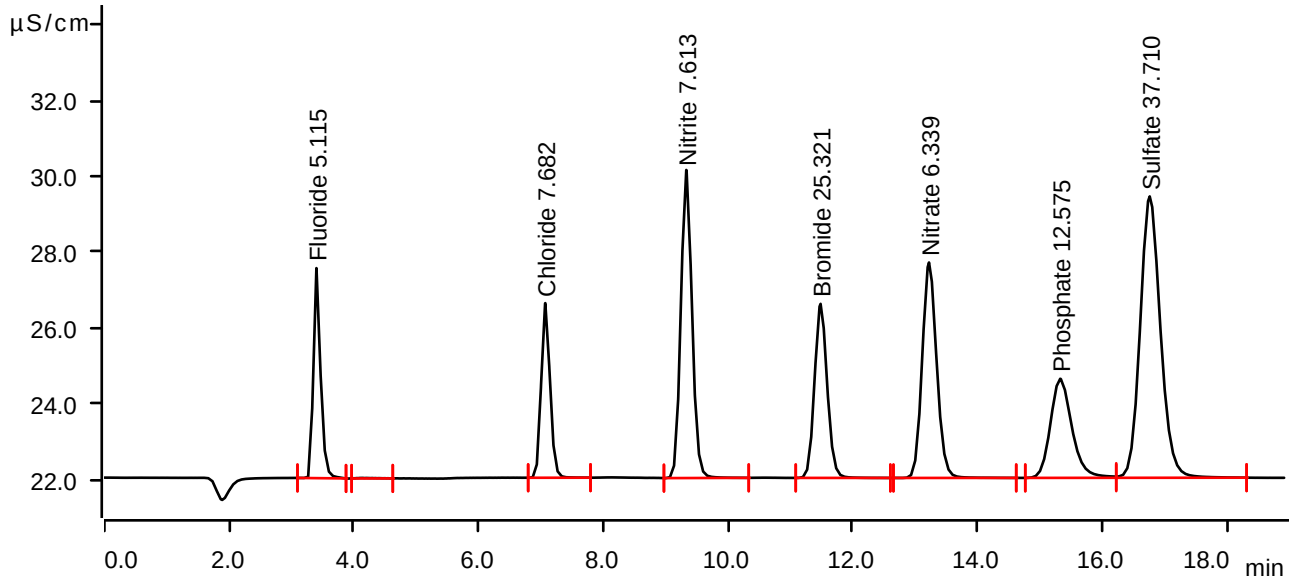
Ident	STD7	
Sample type	Standard 7	
Determination start	2025-02-21 13:13:53 UTC-5	
Method	IC1-022125	
Operator		

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

Reviewed By:Iwon
On:3/13/2025 1:56 PM
Inst Id :IC-2
LB :LB135004

Anions



Peak number	Retention time min	Area (µS/cm) x min	Height µS/cm	Concentration ppm	Component name
1	3.400	0.7457	5.535	5.115	Fluoride
2	4.197	0.0046	0.012	invalid	
3	7.070	0.7592	4.602	7.682	Chloride
4	9.330	1.6810	8.120	7.613	Nitrite
5	11.483	1.0784	4.588	25.321	Bromide
6	13.222	1.5233	5.678	6.339	Nitrate
7	15.325	1.0441	2.611	12.575	Phosphate
8	16.760	2.7982	7.416	37.710	Sulfate

Reviewed By:Iwon
On:3/13/2025 1:56 PM
Inst Id :IC-2
LB :LB135004

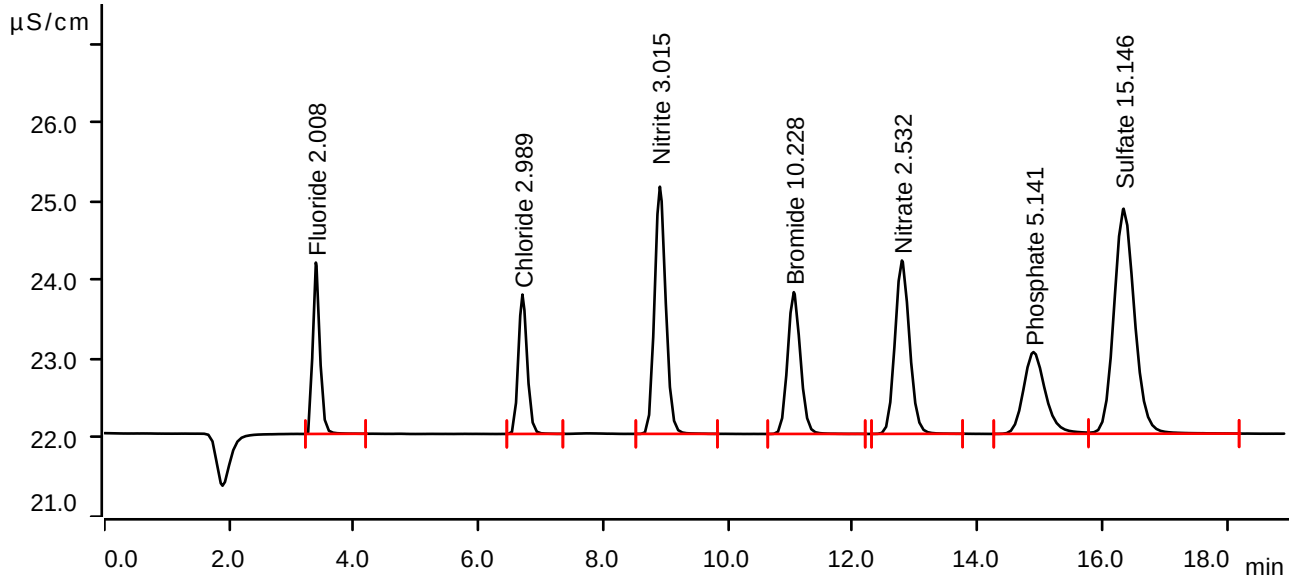
Sample data

Ident	ICV
Sample type	Check standard 1
Determination start	2025-02-21 13:35:21 UTC-5
Method	IC1-022125
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	11.94	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	3.392	0.2859	2.174	2.008	Fluoride
2	6.703	0.2890	1.769	2.989	Chloride
3	8.907	0.6518	3.137	3.015	Nitrite
4	11.053	0.4289	1.799	10.228	Bromide
5	12.787	0.5971	2.200	2.532	Nitrate
6	14.897	0.4230	1.038	5.141	Phosphate
7	16.342	1.0982	2.855	15.146	Sulfate

Reviewed By:Iwon
On:3/13/2025 1:56 PM
Inst Id :IC-2
LB :LB135004

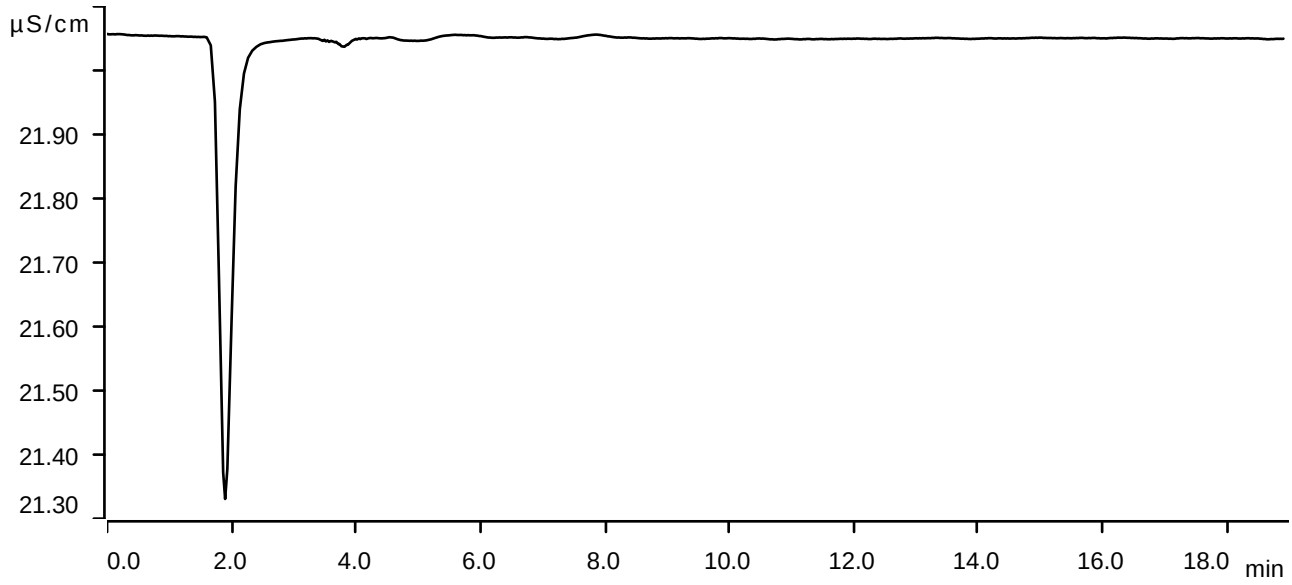
Sample data

Ident	ICB
Sample type	Sample
Determination start	2025-02-21 13:56:49 UTC-5
Method	IC1-022125
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



Reviewed By:Iwon
On:3/13/2025 1:56 PM
Inst Id :IC-2
LB :LB135004

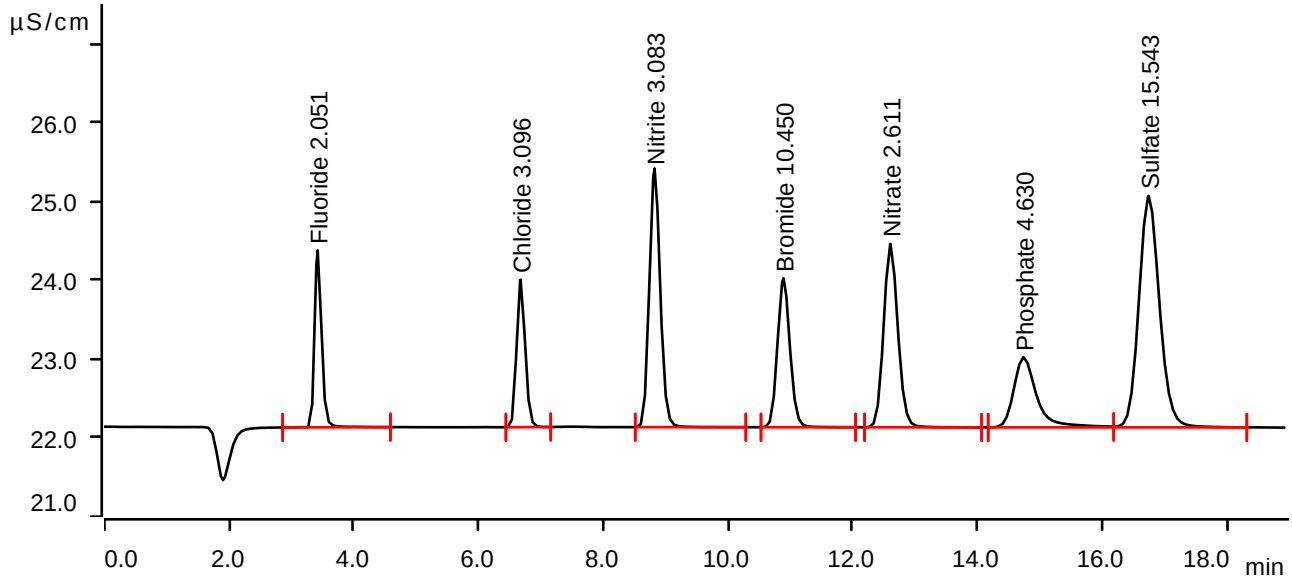
Sample data

Ident	CCV
Sample type	Check standard 1
Determination start	2025-03-11 10:41:14 UTC-4
Method	IC1-022125
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	11.37	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	3.420	0.2923	2.246	2.051	Fluoride
2	6.673	0.2997	1.872	3.096	Chloride
3	8.822	0.6669	3.283	3.083	Nitrite
4	10.888	0.4384	1.890	10.450	Bromide
5	12.603	0.6162	2.328	2.611	Nitrate
6	14.738	0.3804	0.891	4.630	Phosphate
7	16.743	1.1281	2.937	15.543	Sulfate

Reviewed By:Iwon
On:3/13/2025 1:56
PM
Inst Id :IC-2
LB :LB135004

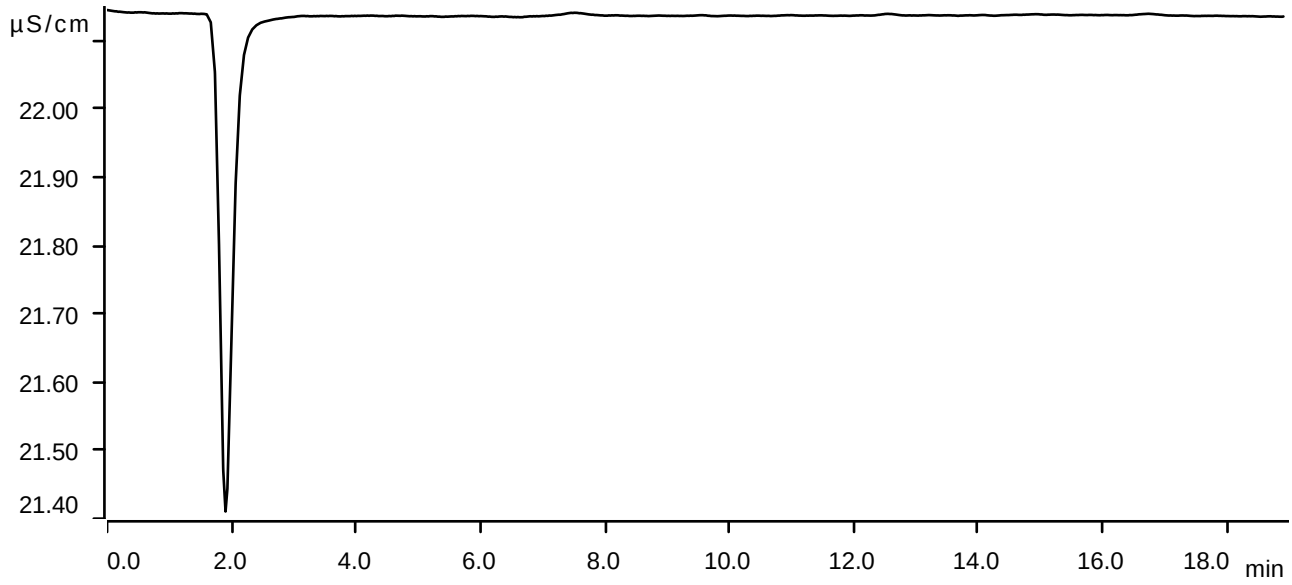
Sample data

Ident	CCB	
Sample type	Sample	
Determination start	2025-03-11 11:02:44 UTC-4	
Method	IC1-022125	
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	11.32	MPa
Maximum pressure monitored	yes	
Temperature	-----	°C

Anions



Reviewed By:Iwon
On:3/13/2025 1:56
PM
Inst Id :IC-2
LB :LB135004

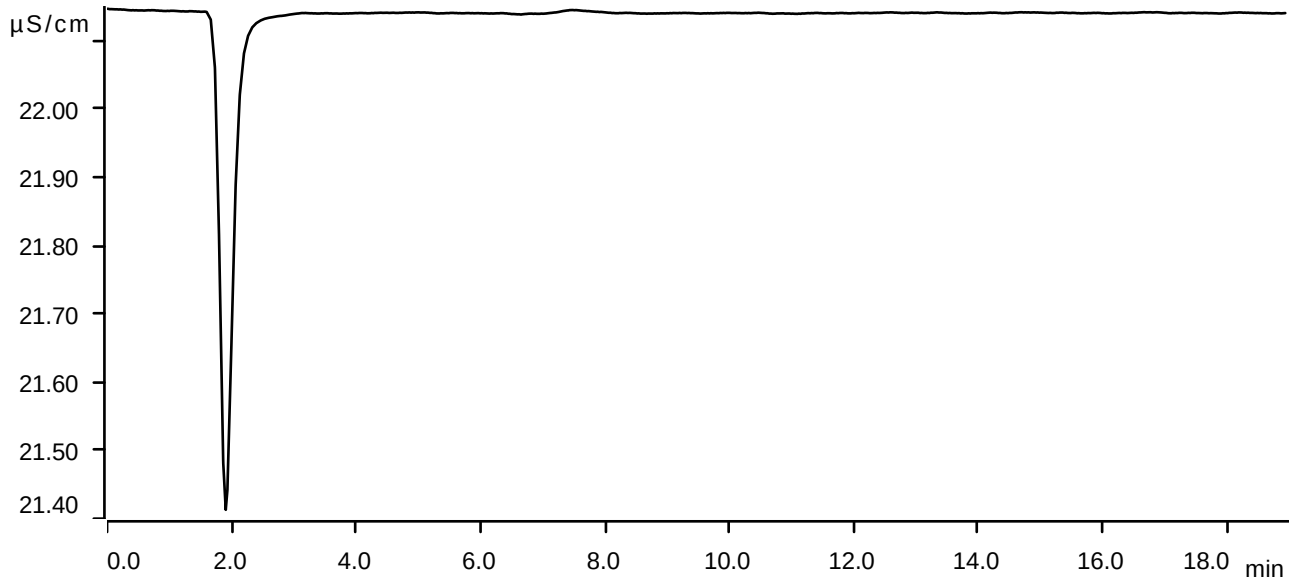
Sample data

Ident	LB135004BLW
Sample type	Sample
Determination start	2025-03-11 11:24:14 UTC-4
Method	IC1-022125
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	11.49	MPa
Maximum pressure monitored	yes	
Temperature	-----	°C

Anions



Reviewed By:Iwon
On:3/13/2025 1:56 PM
Inst Id :IC-2
LB :LB135004

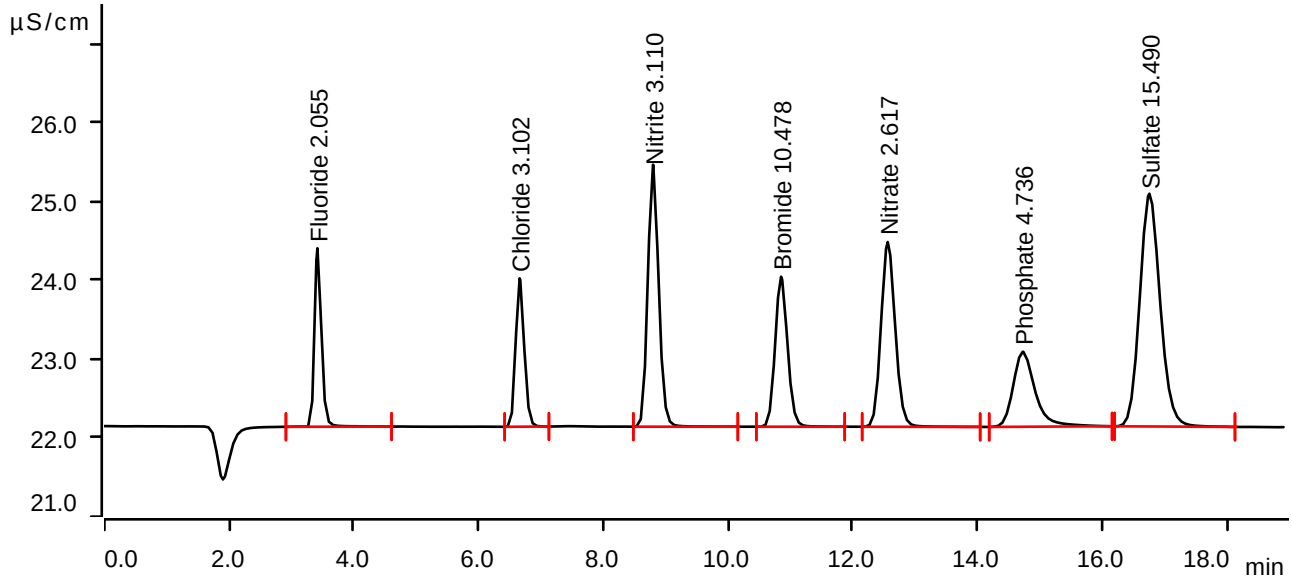
Sample data

Ident	LB135004BSW
Sample type	Check standard 1
Determination start	2025-03-11 11:45:46 UTC-4
Method	IC1-022125
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	11.32	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	3.417	0.2928	2.264	2.055	Fluoride
2	6.658	0.3003	1.883	3.102	Chloride
3	8.797	0.6730	3.325	3.110	Nitrite
4	10.850	0.4396	1.904	10.478	Bromide
5	12.560	0.6178	2.344	2.617	Nitrate
6	14.725	0.3893	0.952	4.736	Phosphate
7	16.755	1.1241	2.954	15.490	Sulfate

Metrohm

Reviewed By:Iwon
On:3/13/2025 1:56
PM
Inst Id :IC-2
LB :LB135004

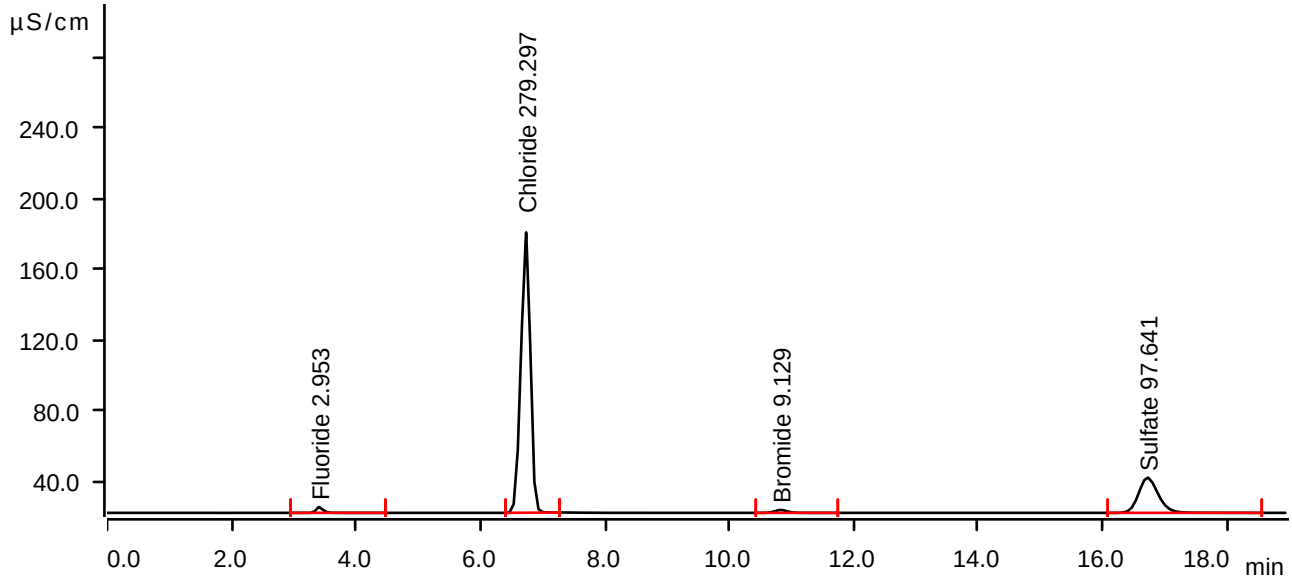
Sample data

Ident	Q1505-05
Sample type	Sample
Determination start	2025-03-11 12:10:32 UTC-4
Method	IC1-022125
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	11.15	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	3.408	0.4258	3.278	2.953	Fluoride
2	6.737	27.9770	158.699	279.297	Chloride
3	10.823	0.3815	1.659	9.129	Bromide
4	16.720	7.3136	19.897	97.641	Sulfate

Reviewed By:Iwon
On:3/13/2025 1:56
PM
Inst Id :IC-2
LB :LB135004

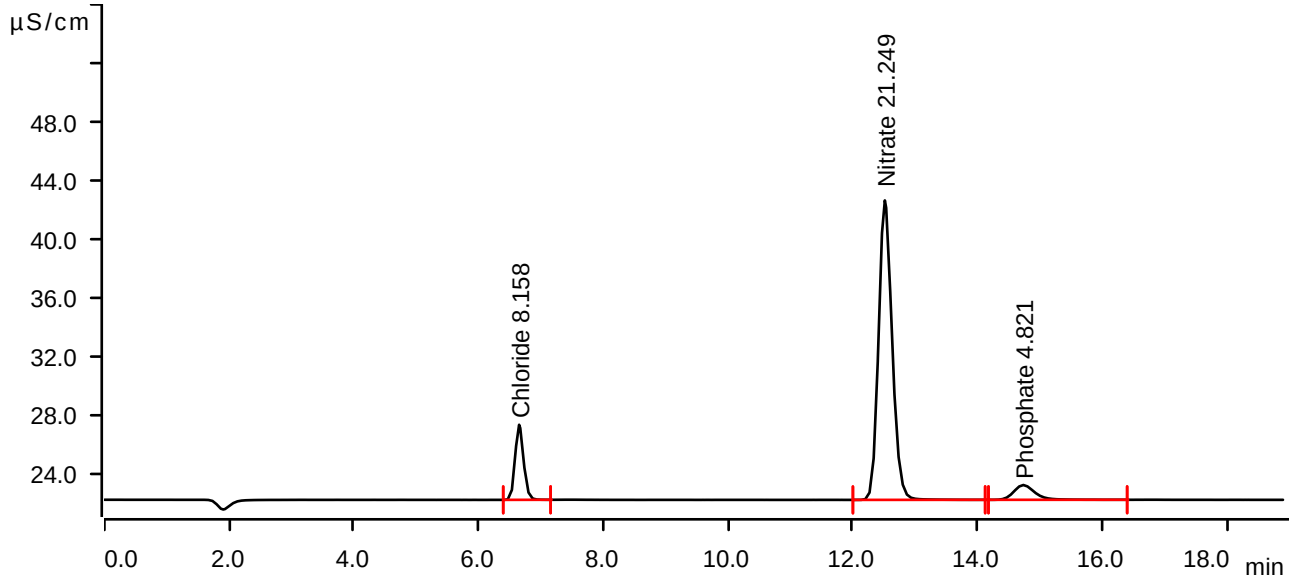
Sample data

Ident	Q1505-11
Sample type	Sample
Determination start	2025-03-11 12:32:05 UTC-4
Method	IC1-022125
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	11.26	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	6.650	0.8069	5.132	8.158	Chloride
2	12.513	5.1514	20.463	21.249	Nitrate
3	14.733	0.3963	1.010	4.821	Phosphate

Reviewed By:Iwon
On:3/13/2025 1:56 PM
Inst Id :IC-2
LB :LB135004

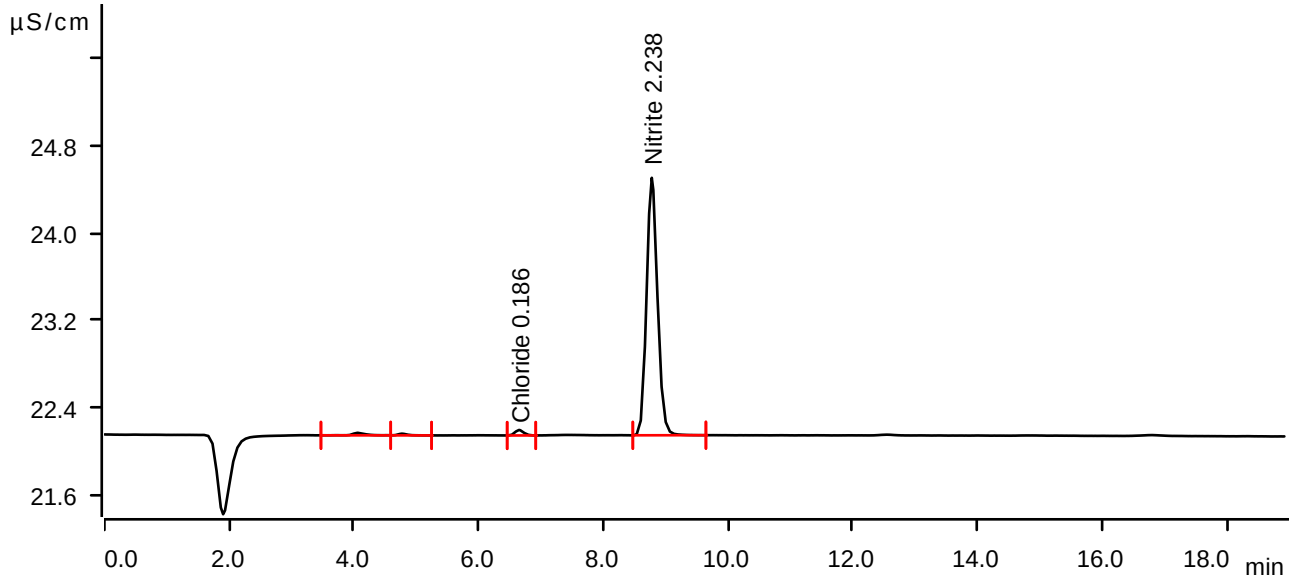
Sample data

Ident	Q1505-15
Sample type	Sample
Determination start	2025-03-11 12:53:39 UTC-4
Method	IC1-022125
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	11.15	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	4.058	0.0057	0.023	invalid	
2	4.770	0.0027	0.016	invalid	
3	6.648	0.0081	0.050	0.186	Chloride
4	8.777	0.4778	2.362	2.238	Nitrite

Reviewed By:Iwon
On:3/13/2025 1:56 PM
Inst Id :IC-2
LB :LB135004

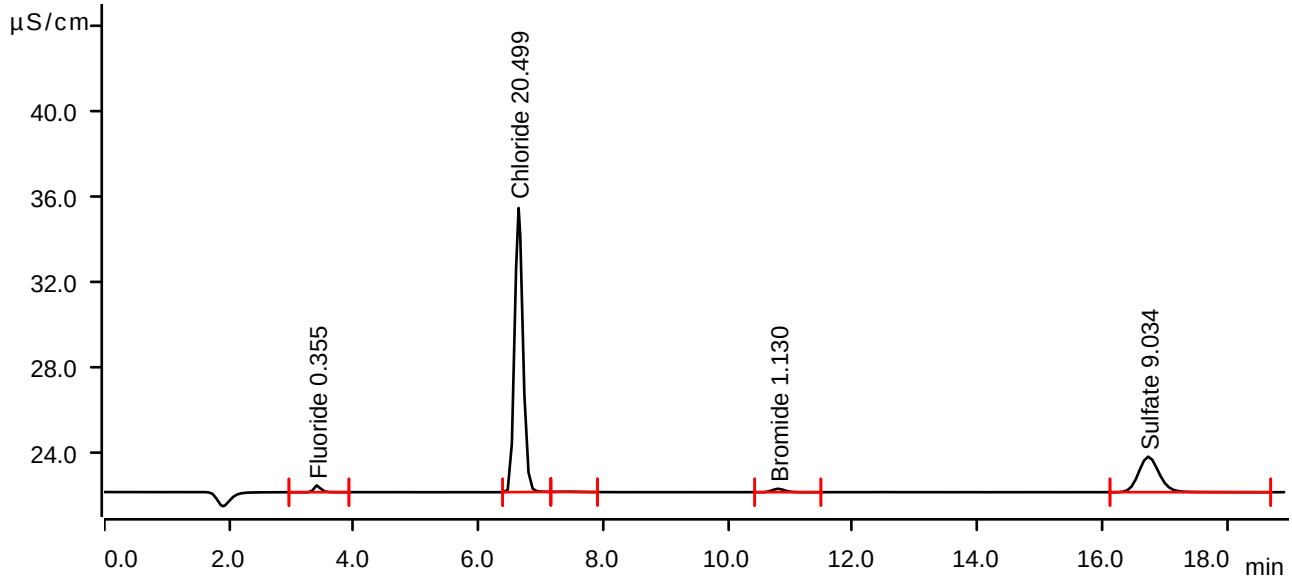
Sample data

Ident	Q1505-05DLX10
Sample type	Sample
Determination start	2025-03-11 13:15:13 UTC-4
Method	IC1-022125
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



Peak number	Retention time min	Area (µS/cm) x min	Height µS/cm	Concentration ppm	Component name
1	3.407	0.0413	0.313	0.355	Fluoride
2	6.642	2.0437	13.309	20.499	Chloride
3	7.420	0.0040	0.011	invalid	
4	10.802	0.0373	0.161	1.130	Bromide
5	16.738	0.6376	1.661	9.034	Sulfate

Reviewed By:Iwon
On:3/13/2025 1:56
PM
Inst Id :IC-2
LB :LB135004

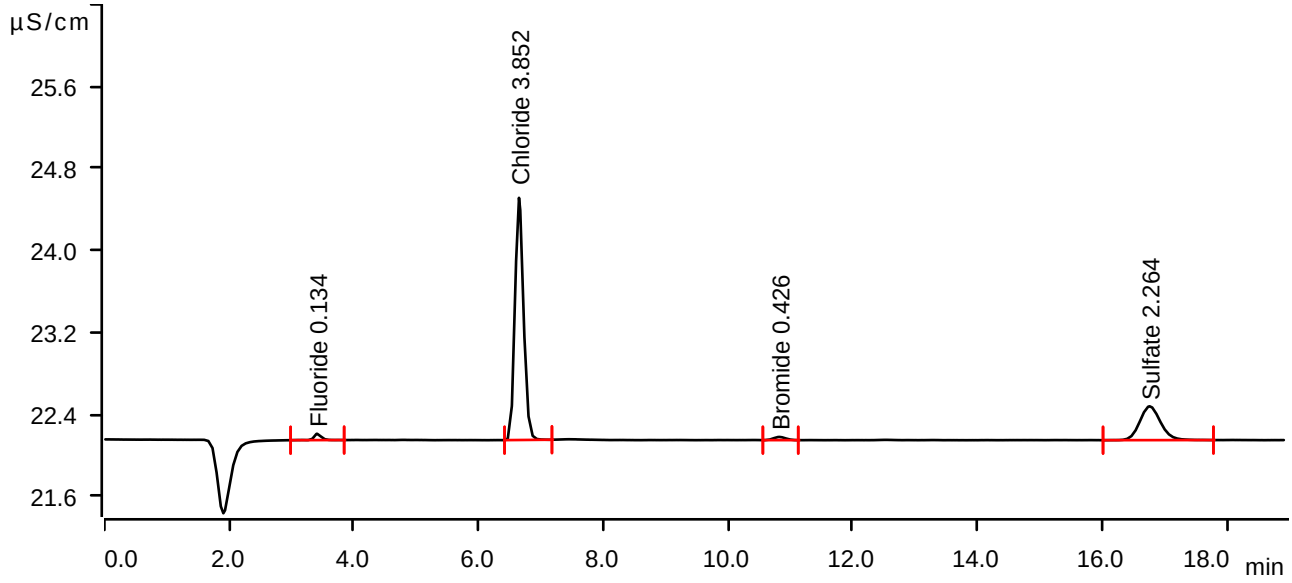
Sample data

Ident	Q1505-05DL2X50
Sample type	Sample
Determination start	2025-03-11 13:36:48 UTC-4
Method	IC1-022125
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	11.32	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	3.412	0.0085	0.062	0.134	Fluoride
2	6.648	0.3755	2.364	3.852	Chloride
3	10.827	0.0070	0.031	0.426	Bromide
4	16.758	0.1276	0.330	2.264	Sulfate

Reviewed By:Iwon
On:3/13/2025 1:56
PM
Inst Id :IC-2
LB :LB135004

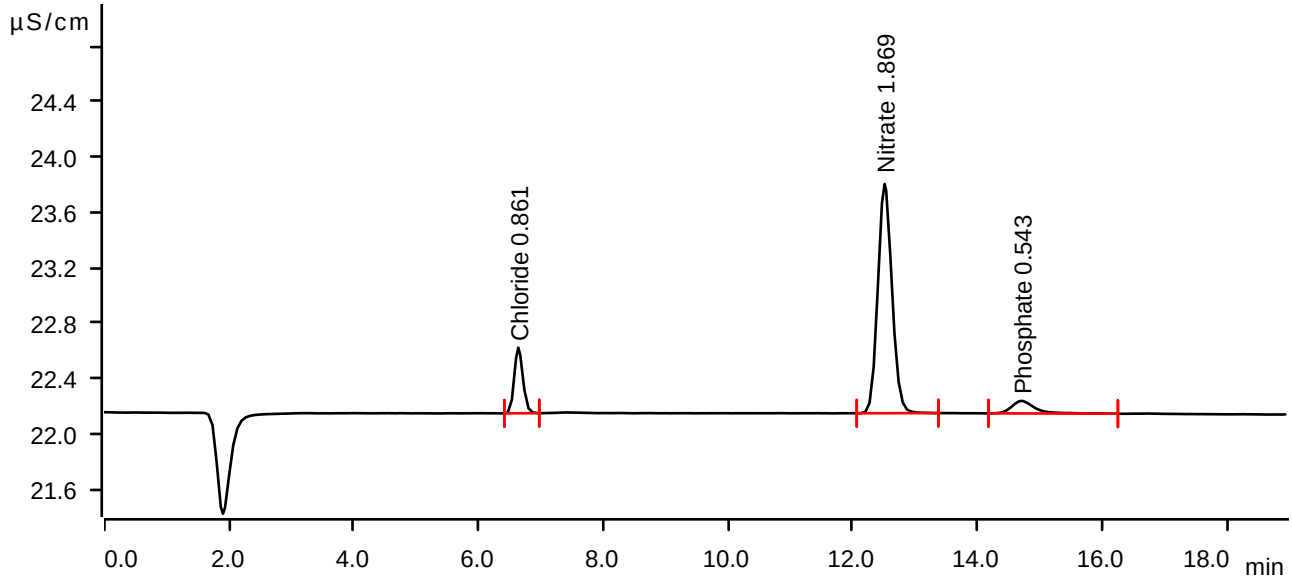
Sample data

Ident	Q1505-11DLX10
Sample type	Sample
Determination start	2025-03-11 13:58:22 UTC-4
Method	IC1-022125
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

Anions



Peak number	Retention time min	Area (µS/cm) x min	Height µS/cm	Concentration ppm	Component name
1	6.637	0.0757	0.474	0.861	Chloride
2	12.510	0.4357	1.657	1.869	Nitrate
3	14.705	0.0389	0.091	0.543	Phosphate

Reviewed By:Iwon
On:3/13/2025 1:56 PM
Inst Id :IC-2
LB :LB135004

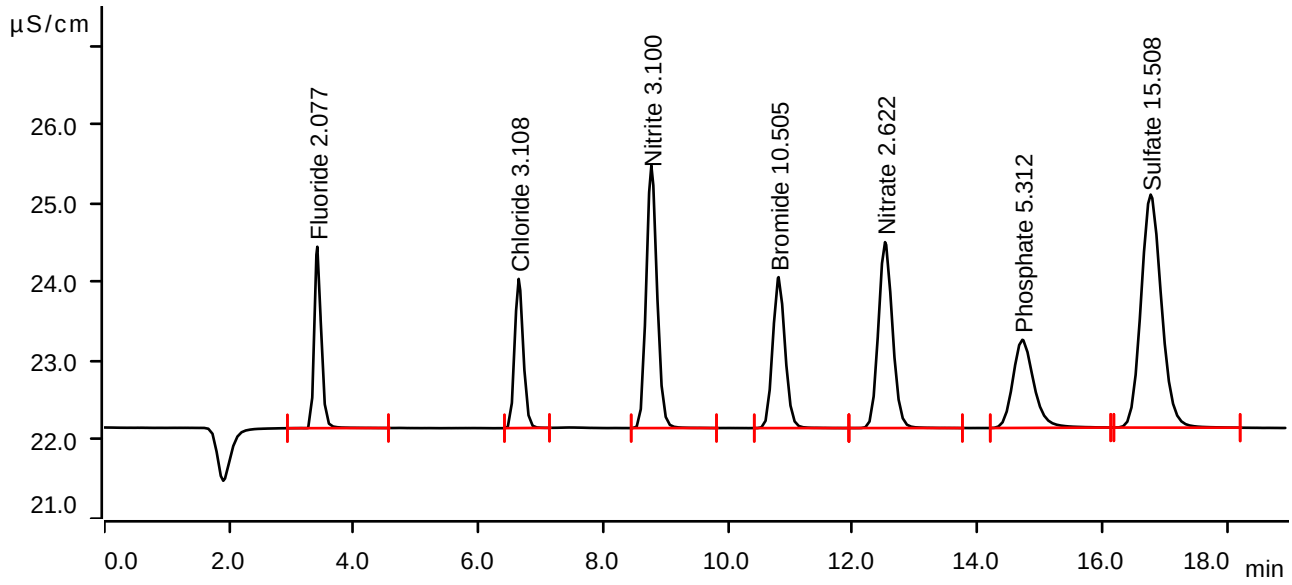
Sample data

Ident	CCV
Sample type	Check standard 1
Determination start	2025-03-11 14:19:55 UTC-4
Method	IC1-022125
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	11.37	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	3.415	0.2961	2.301	2.077	Fluoride
2	6.643	0.3009	1.893	3.108	Chloride
3	8.770	0.6708	3.331	3.100	Nitrite
4	10.810	0.4408	1.915	10.505	Bromide
5	12.517	0.6190	2.360	2.622	Nitrate
6	14.718	0.4374	1.118	5.312	Phosphate
7	16.775	1.1254	2.957	15.508	Sulfate

Reviewed By:Iwon
On:3/13/2025 1:56 PM
Inst Id :IC-2
LB :LB135004

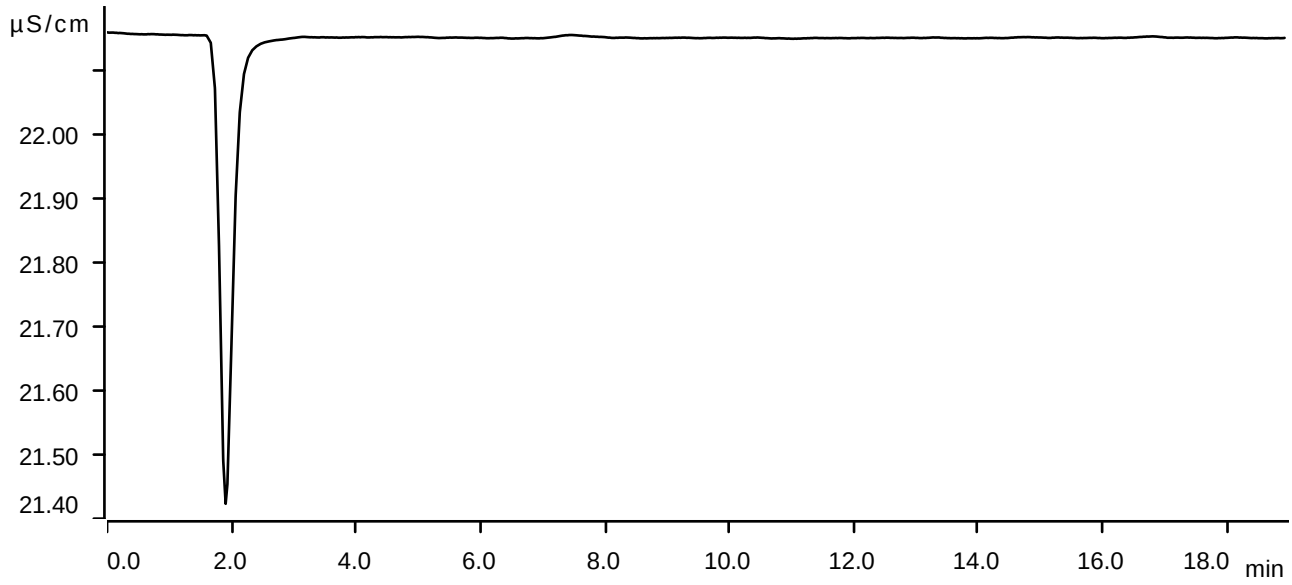
Sample data

Ident	CCB	
Sample type	Sample	
Determination start	2025-03-11 14:41:25 UTC-4	
Method	IC1-022125	
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	11.43	MPa
Maximum pressure monitored	yes	
Temperature	-----	°C

Anions



Instrument ID: IC-1 Analyst: NF Method: 300.0 / 9056A

Ident	Con F-	Con CL-	Con NO2	Con BR-	Con NO3	Con HPO4	Con SO4	Method name	date time	vt/Fi	Analyst
STD1	0	0	0	0	0	0	0	IC1-022125	2/21/2025 11:05	10	NF/IZ
STD2	0.448	0.678	0.657	2.152	0.544	1.059	3.319	IC1-022125	2/21/2025 11:26	10	NF/IZ
STD3	0.821	1.223	1.216	4.052	1.014	2.009	6.104	IC1-022125	2/21/2025 11:48	10	NF/IZ
STD4	1.013	1.524	1.523	5.08	1.272	2.514	7.612	IC1-022125	2/21/2025 12:09	10	NF/IZ
STD5	1.919	2.879	2.894	9.683	2.411	4.896	14.423	IC1-022125	2/21/2025 12:31	10	NF/IZ
STD6	3.884	5.815	5.898	19.712	4.921	9.947	29.333	IC1-022125	2/21/2025 12:52	10	NF/IZ
STD7	5.115	7.682	7.613	25.321	6.339	12.575	37.71	IC1-022125	2/21/2025 13:13	10	NF/IZ
ICV	2.008	2.989	3.015	10.228	2.532	5.141	15.146	IC1-022125	2/21/2025 13:35	10	NF/IZ
ICB	0	0	0	0	0	0	0	IC1-022125	2/21/2025 13:56	10	NF/IZ
CCV	2.051	3.096	3.083	10.45	2.611	4.63	15.543	IC1-022125	3/11/2025 10:41	10	NF/IZ
CCB	0	0	0	0	0	0	0	IC1-022125	3/11/2025 11:02	10	NF/IZ
LB135005BLW	0	0	0	0	0	0	0	IC1-022125	3/11/2025 11:24	10	NF/IZ
LB135005BSW	2.055	3.102	3.11	10.478	2.617	4.736	15.49	IC1-022125	3/11/2025 11:45	10	NF/IZ
Q1505-06	2.953	279.297	0	9.129	0	0	97.641	IC1-022125	3/11/2025 12:10	10	NF/IZ
Q1505-12	0	8.158	0	0	21.249	4.821	0	IC1-022125	3/11/2025 12:32	10	NF/IZ
Q1505-16	0	0.186	2.238	0	0	0	0	IC1-022125	3/11/2025 12:53	10	NF/IZ
Q1505-06DLX10	0.355	20.499	0	1.13	0	0	9.034	IC1-022125	3/11/2025 13:15	10	NF/IZ
Q1505-06DL2X50	0.134	3.852	0	0.426	0	0	2.264	IC1-022125	3/11/2025 13:36	10	NF/IZ
Q1505-12DLX10	0	0.861	0	0	1.869	0.543	0	IC1-022125	3/11/2025 13:58	10	NF/IZ
CCV	2.077	3.108	3.1	10.505	2.622	5.312	15.508	IC1-022125	3/11/2025 14:19	10	NF/IZ
CCB	0	0	0	0	0	0	0	IC1-022125	3/11/2025 14:41	10	NF/IZ
Q1539-01	0.116	56.865	0	0	0	0	16.821	IC1-022125	3/11/2025 15:02	10	NF/IZ
Q1539-01MS	2.084	57.867	3.042	10.355	2.571	2.864	31.391	IC1-022125	3/11/2025 15:24	10	NF/IZ
Q1539-01MSD	1.982	57.851	2.907	9.9	2.467	2.666	30.716	IC1-022125	3/11/2025 15:46	10	NF/IZ
Q1539-02	0.117	6.422	0	0	0	0	1.02	IC1-022125	3/11/2025 16:07	10	NF/IZ
Q1539-01DLX10	0	4.692	0	0	0	0	2.138	IC1-022125	3/11/2025 16:29	10	NF/IZ
CCV	2.074	3.109	3.095	10.466	2.614	5.364	15.504	IC1-022125	3/11/2025 16:50	10	NF/IZ
CCB	0	0	0	0	0	0	0	IC1-022125	3/11/2025 17:11	10	NF/IZ

Reviewed By:Iwona
On:3/13/2025 1:56:00 PM
Inst Id :IC-2
LB :LB135005

Clear table

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

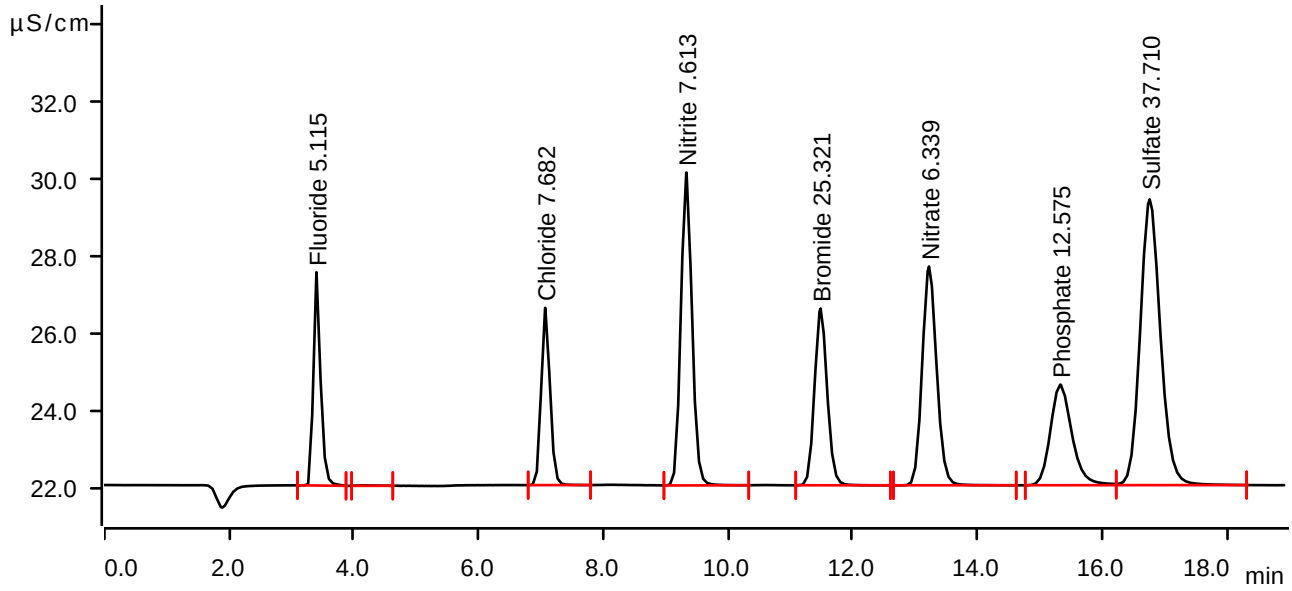
ident	concentration F-	concentration CL-	concentration NO2	concentration BR-	concentration NO3	concentration HPO4	concentration SO4	file name	date time	Initial wt/ Final	Analyst
STD1	0	0	0	0	0	0	0	IC1-022125	2/21/2025 11:05	10	NF/IZ
STD2	0.448	0.678	0.657	2.152	0.544	1.059	3.319	IC1-022125	2/21/2025 11:26	10	NF/IZ
STD3	0.821	1.223	1.216	4.052	1.014	2.009	6.104	IC1-022125	2/21/2025 11:48	10	NF/IZ
STD4	1.013	1.524	1.523	5.08	1.272	2.514	7.612	IC1-022125	2/21/2025 12:09	10	NF/IZ
STD5	1.919	2.879	2.894	9.683	2.411	4.896	14.423	IC1-022125	2/21/2025 12:31	10	NF/IZ
STD6	3.884	5.815	5.898	19.712	4.921	9.947	29.333	IC1-022125	2/21/2025 12:52	10	NF/IZ
STD7	5.115	7.682	7.613	25.321	6.339	12.575	37.71	IC1-022125	2/21/2025 13:13	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	12.0000	13.0000	9.5000	7.6000	8.8000	5.9000	10.6333
STD3	2.6250	1.9167	1.3333	1.3000	1.4000	0.4500	1.7333
STD4	1.3000	1.6000	1.5333	1.6000	1.7600	0.5600	1.4933
STD5	-4.0500	-4.0333	-3.5333	-3.1700	-3.5600	-2.0800	-3.8467
STD6	-2.9000	-3.0833	-1.7000	-1.4400	-1.5800	-0.5300	-2.2233
STD7	2.3000	2.4267	1.5067	1.2840	1.4240	0.6000	1.9189

Reviewed By:Iwona
On:3/13/2025 1:56:00 PM
Inst Id :IC-2
LB :LB135005

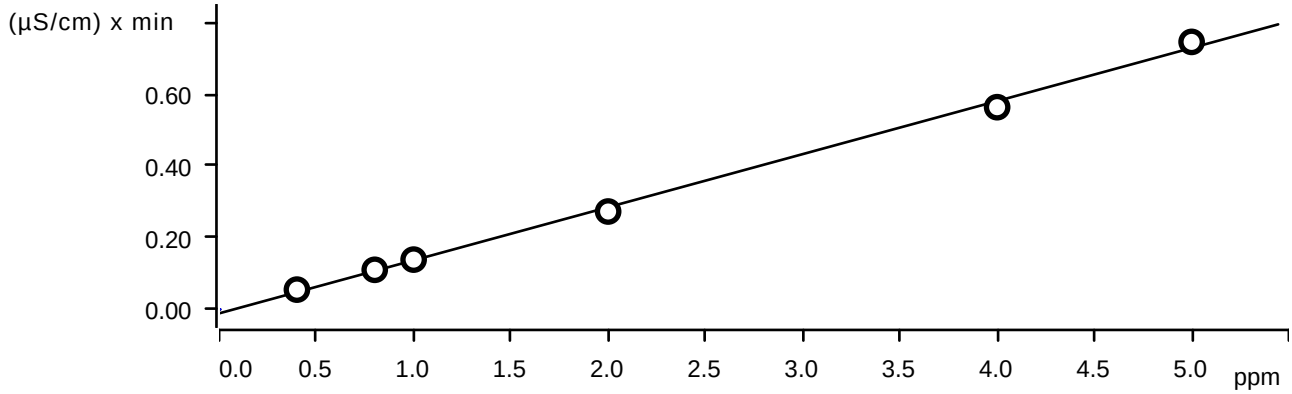
Anions



Peak number	Retention time min	Area (µS/cm) x min	Height µS/cm	Concentration ppm	Component name
1	3.400	0.7457	5.535	5.115	Fluoride
2	4.197	0.0046	0.012	invalid	
3	7.070	0.7592	4.602	7.682	Chloride
4	9.330	1.6810	8.120	7.613	Nitrite
5	11.483	1.0784	4.588	25.321	Bromide
6	13.222	1.5233	5.678	6.339	Nitrate
7	15.325	1.0441	2.611	12.575	Phosphate
8	16.760	2.7982	7.416	37.710	Sulfate

Reviewed By:Iwon
On:3/13/2025 1:56 PM
Inst Id :IC-2
LB :LB135005

Fluoride (Anions)



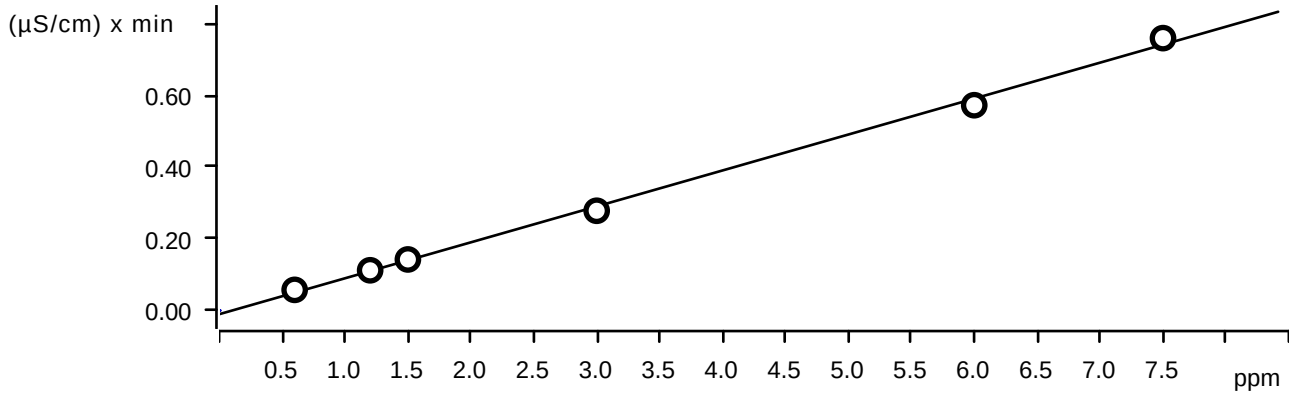
Function: . . . . . *A = - 0.0112463 + 0.0147980× Q*

Relative standard deviation . . . . . *4.464159 %*

Correlation coefficient *0.998989*

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	2025-02-21 11:05:25 UTC-5	used
Standard 2	1	0.400	10.0	1.0	1.0	0.055	STD2	2025-02-21 11:26:47 UTC-5	used
Standard 3	1	0.800	10.0	1.0	1.0	0.110	STD3	2025-02-21 11:48:11 UTC-5	used
Standard 4	1	1.000	10.0	1.0	1.0	0.139	STD4	2025-02-21 12:09:35 UTC-5	used
Standard 5	1	2.000	10.0	1.0	1.0	0.273	STD5	2025-02-21 12:31:01 UTC-5	used
Standard 6	1	4.000	10.0	1.0	1.0	0.564	STD6	2025-02-21 12:52:27 UTC-5	used
Standard 7	1	5.000	10.0	1.0	1.0	0.746	STD7	2025-02-21 13:13:53 UTC-5	used

Chloride (Anions)



Function: . . . . . *A = - 0.0105167 + 0.0100207× Q*

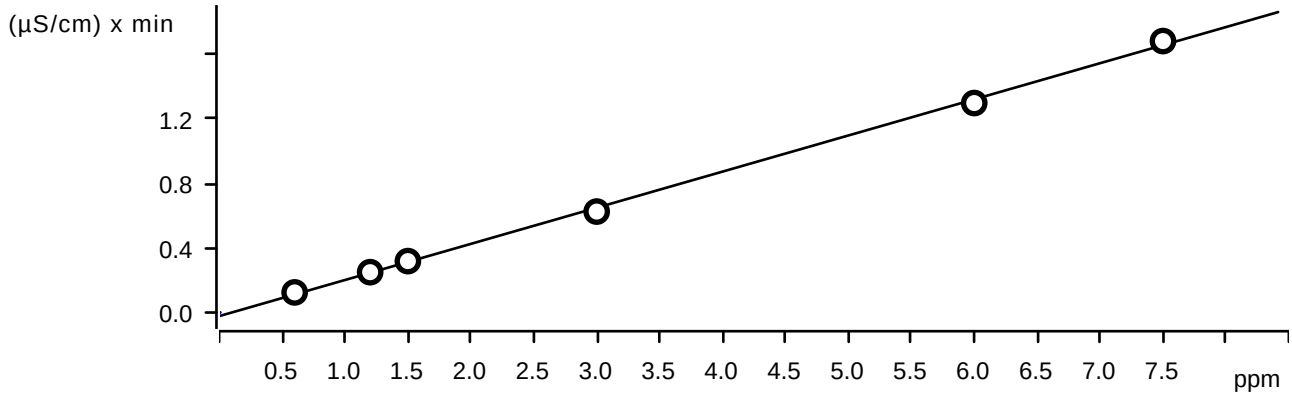
Reviewed By:Iwon
On:3/13/2025 1:56
PM
Inst Id :IC-2
LB :LB135005

Relative standard deviation . . . . . *4.669067 %*

Correlation coefficient *0.998888*

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	2025-02-21 11:05:25 UTC-5	used
Standard 2	1	0.600	10.0	1.0	1.0	0.057	STD2	2025-02-21 11:26:47 UTC-5	used
Standard 3	1	1.200	10.0	1.0	1.0	0.112	STD3	2025-02-21 11:48:11 UTC-5	used
Standard 4	1	1.500	10.0	1.0	1.0	0.142	STD4	2025-02-21 12:09:35 UTC-5	used
Standard 5	1	3.000	10.0	1.0	1.0	0.278	STD5	2025-02-21 12:31:01 UTC-5	used
Standard 6	1	6.000	10.0	1.0	1.0	0.572	STD6	2025-02-21 12:52:27 UTC-5	used
Standard 7	1	7.500	10.0	1.0	1.0	0.759	STD7	2025-02-21 13:13:53 UTC-5	used

Nitrite (Anions)



Function: . . . . . *A = - 0.0232250 + 0.0223870× Q*

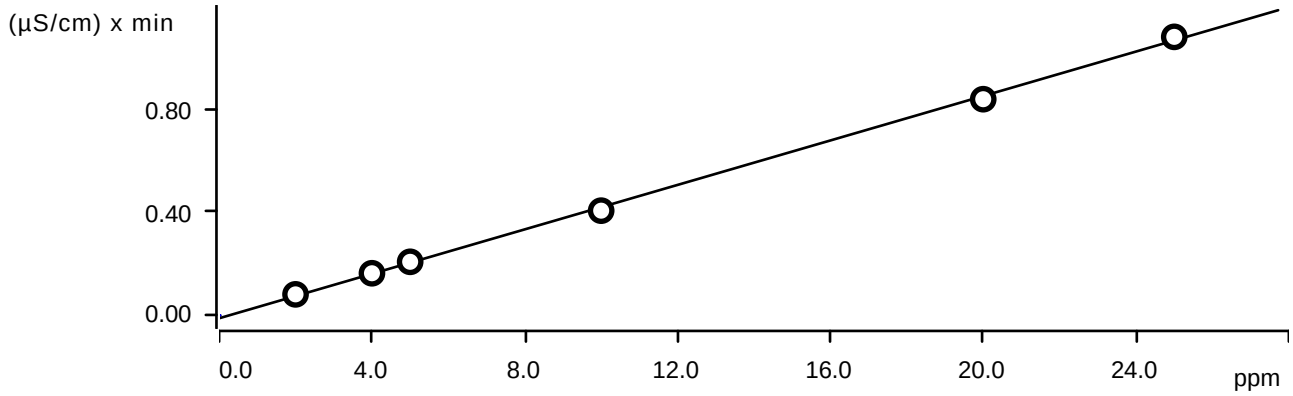
Relative standard deviation . . . . . *3.068725 %*

Correlation coefficient *0.999519*

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	2025-02-21 11:05:25 UTC-5	used
Standard 2	1	0.600	10.0	1.0	1.0	0.124	STD2	2025-02-21 11:26:47 UTC-5	used
Standard 3	1	1.200	10.0	1.0	1.0	0.249	STD3	2025-02-21 11:48:11 UTC-5	used
Standard 4	1	1.500	10.0	1.0	1.0	0.318	STD4	2025-02-21 12:09:35 UTC-5	used
Standard 5	1	3.000	10.0	1.0	1.0	0.625	STD5	2025-02-21 12:31:01 UTC-5	used
Standard 6	1	6.000	10.0	1.0	1.0	1.297	STD6	2025-02-21 12:52:27 UTC-5	used
Standard 7	1	7.500	10.0	1.0	1.0	1.681	STD7	2025-02-21 13:13:53 UTC-5	used

Reviewed By:Iwon
On:3/13/2025 1:56
PM
Inst Id :IC-2
LB :LB135005

Bromide (Anions)



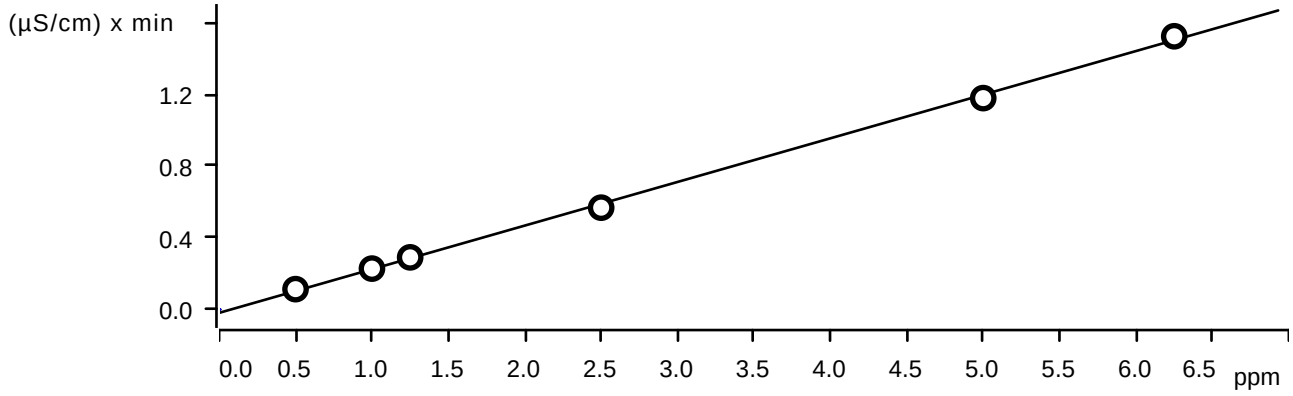
Function: . . . . . *A = - 0.0113202 + 4.30364E-3× Q*

Relative standard deviation . . . . . *2.628989 %*

Correlation coefficient *0.999641*

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	2025-02-21 11:05:25 UTC-5	used
Standard 2	1	2.000	10.0	1.0	1.0	0.081	STD2	2025-02-21 11:26:47 UTC-5	used
Standard 3	1	4.000	10.0	1.0	1.0	0.163	STD3	2025-02-21 11:48:11 UTC-5	used
Standard 4	1	5.000	10.0	1.0	1.0	0.207	STD4	2025-02-21 12:09:35 UTC-5	used
Standard 5	1	10.000	10.0	1.0	1.0	0.405	STD5	2025-02-21 12:31:01 UTC-5	used
Standard 6	1	20.000	10.0	1.0	1.0	0.837	STD6	2025-02-21 12:52:27 UTC-5	used
Standard 7	1	25.000	10.0	1.0	1.0	1.078	STD7	2025-02-21 13:13:53 UTC-5	used

Nitrate (Anions)



Function: . . . . . *A = - 0.0190446 + 0.0243327× Q*

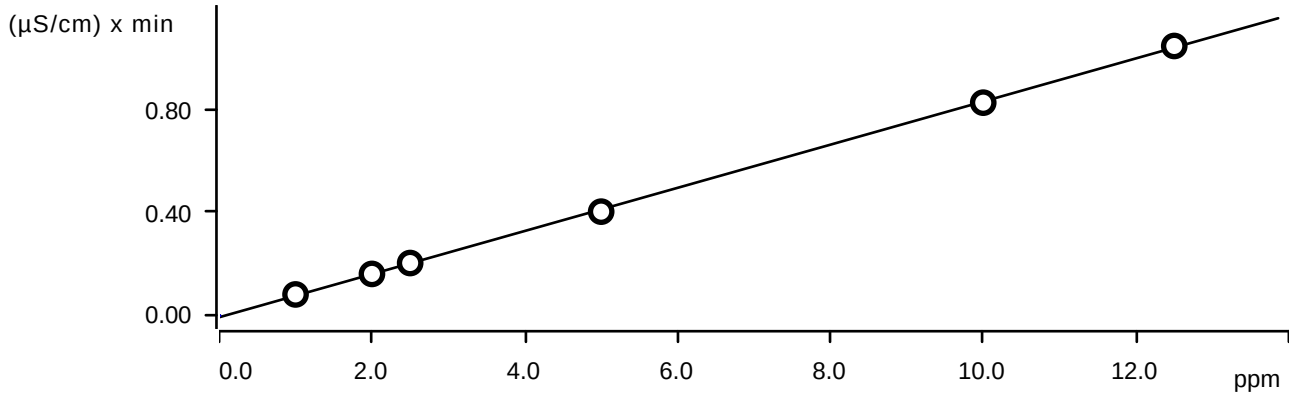
Relative standard deviation . . . . . *2.936394 %*

Reviewed By:Iwon
On:3/13/2025 1:56
PM
Inst Id :IC-2
LB :LB135005

Correlation coefficient *0.999557*

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	2025-02-21 11:05:25 UTC-5	used
Standard 2	1	0.500	10.0	1.0	1.0	0.113	STD2	2025-02-21 11:26:47 UTC-5	used
Standard 3	1	1.000	10.0	1.0	1.0	0.228	STD3	2025-02-21 11:48:11 UTC-5	used
Standard 4	1	1.250	10.0	1.0	1.0	0.290	STD4	2025-02-21 12:09:35 UTC-5	used
Standard 5	1	2.500	10.0	1.0	1.0	0.568	STD5	2025-02-21 12:31:01 UTC-5	used
Standard 6	1	5.000	10.0	1.0	1.0	1.178	STD6	2025-02-21 12:52:27 UTC-5	used
Standard 7	1	6.250	10.0	1.0	1.0	1.523	STD7	2025-02-21 13:13:53 UTC-5	used

Phosphate (Anions)



Function: . . . . . *A = - 6.44326E-3 + 8.35469E-3× Q*

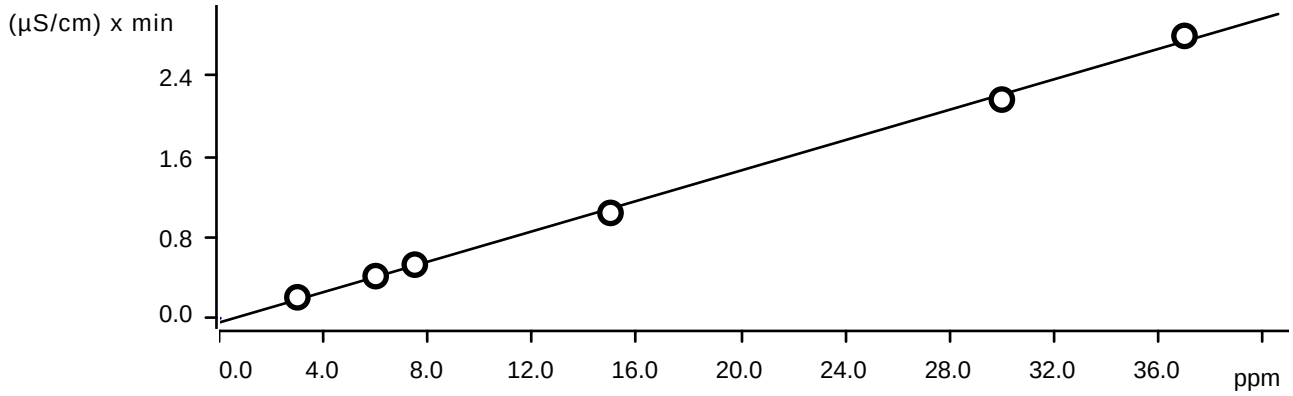
Relative standard deviation . . . . . *1.393773 %*

Correlation coefficient *0.999897*

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	2025-02-21 11:05:25 UTC-5	used
Standard 2	1	1.000	10.0	1.0	1.0	0.082	STD2	2025-02-21 11:26:47 UTC-5	used
Standard 3	1	2.000	10.0	1.0	1.0	0.161	STD3	2025-02-21 11:48:11 UTC-5	used
Standard 4	1	2.500	10.0	1.0	1.0	0.204	STD4	2025-02-21 12:09:35 UTC-5	used
Standard 5	1	5.000	10.0	1.0	1.0	0.403	STD5	2025-02-21 12:31:01 UTC-5	used
Standard 6	1	10.000	10.0	1.0	1.0	0.825	STD6	2025-02-21 12:52:27 UTC-5	used
Standard 7	1	12.500	10.0	1.0	1.0	1.044	STD7	2025-02-21 13:13:53 UTC-5	used

Reviewed By:Iwon
On:3/13/2025 1:56
PM
Inst Id :IC-2
LB :LB135005

Sulfate (Anions)



Function: . . . . . *A = - 0.0430107 + 7.53437E-3× Q*

Relative standard deviation . . . . . *3.742757 %*

Correlation coefficient *0.999282*

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	2025-02-21 11:05:25 UTC-5	used
Standard 2	1	3.000	10.0	1.0	1.0	0.207	STD2	2025-02-21 11:26:47 UTC-5	used
Standard 3	1	6.000	10.0	1.0	1.0	0.417	STD3	2025-02-21 11:48:11 UTC-5	used
Standard 4	1	7.500	10.0	1.0	1.0	0.531	STD4	2025-02-21 12:09:35 UTC-5	used
Standard 5	1	15.000	10.0	1.0	1.0	1.044	STD5	2025-02-21 12:31:01 UTC-5	used
Standard 6	1	30.000	10.0	1.0	1.0	2.167	STD6	2025-02-21 12:52:27 UTC-5	used
Standard 7	1	37.000	10.0	1.0	1.0	2.798	STD7	2025-02-21 13:13:53 UTC-5	used

Reviewed By:Iwon
On:3/13/2025 1:56
PM
Inst Id :IC-2
LB :LB135005

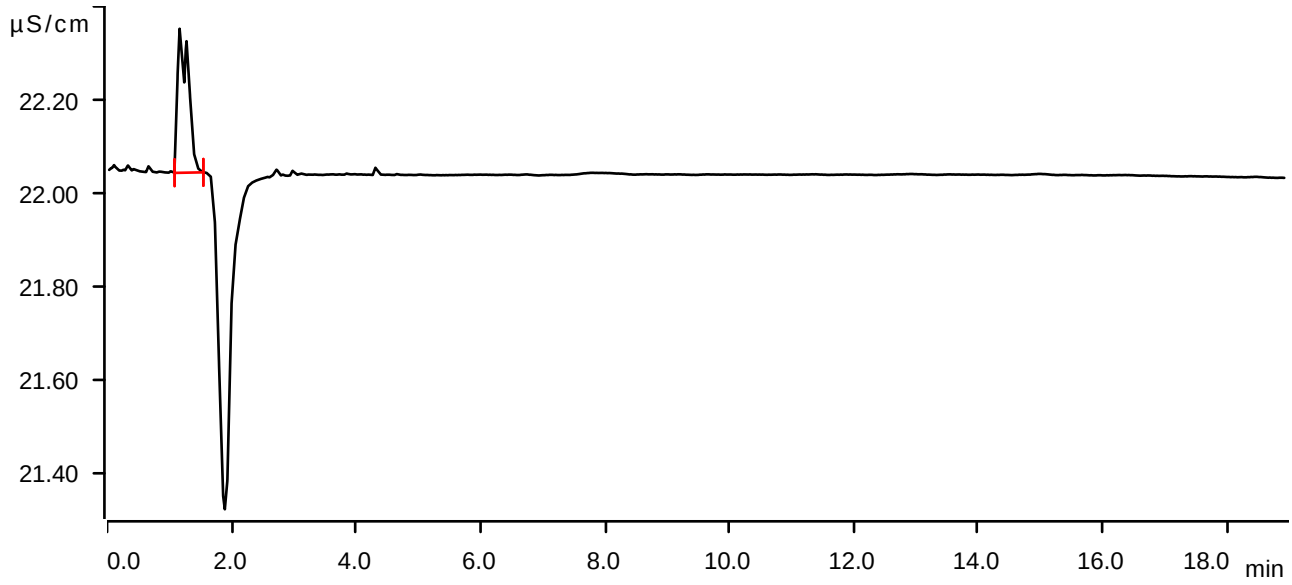
Sample data

Ident	STD1
Sample type	Standard 1
Determination start	2025-02-21 11:05:25 UTC-5
Method	IC1-022125
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	1.167	0.0607	0.309	invalid	

Metrohm

Reviewed By:Iwon
On:3/13/2025 1:56
PM
Inst Id :IC-2
LB :LB135005

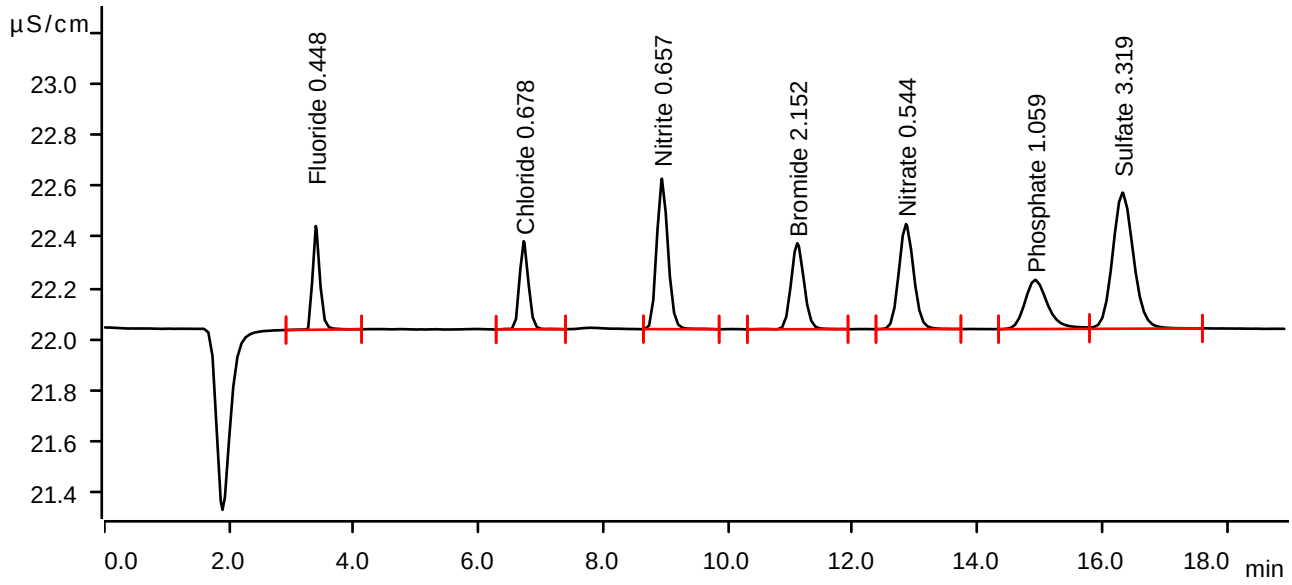
Sample data

Ident	STD2
Sample type	Standard 2
Determination start	2025-02-21 11:26:47 UTC-5
Method	IC1-022125
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	3.390	0.0550	0.405	0.448	Fluoride
2	6.723	0.0574	0.344	0.678	Chloride
3	8.940	0.1238	0.587	0.657	Nitrite
4	11.110	0.0813	0.336	2.152	Bromide
5	12.852	0.1132	0.410	0.544	Nitrate
6	14.923	0.0820	0.192	1.059	Phosphate
7	16.323	0.2071	0.531	3.319	Sulfate

Metrohm

Reviewed By:Iwon
On:3/13/2025 1:56
PM
Inst Id :IC-2
LB :LB135005

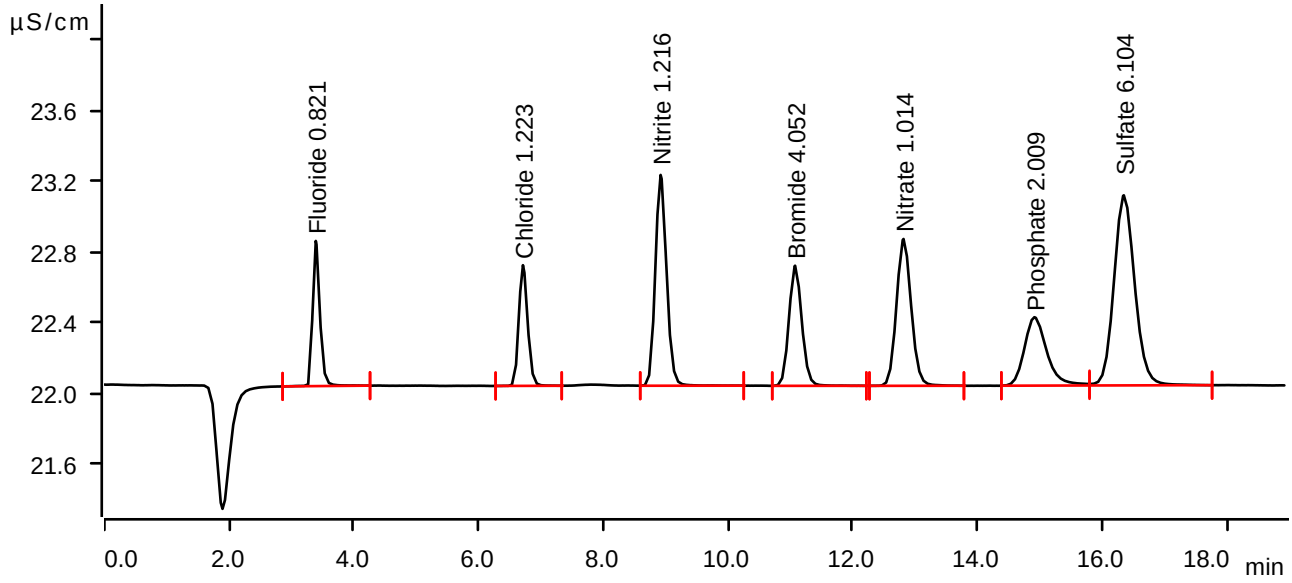
Sample data

Ident	STD3
Sample type	Standard 3
Determination start	2025-02-21 11:48:11 UTC-5
Method	IC1-022125
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	11.94	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	3.390	0.1102	0.822	0.821	Fluoride
2	6.712	0.1120	0.683	1.223	Chloride
3	8.918	0.2491	1.193	1.216	Nitrite
4	11.075	0.1631	0.680	4.052	Bromide
5	12.813	0.2277	0.831	1.014	Nitrate
6	14.912	0.1614	0.387	2.009	Phosphate
7	16.345	0.4169	1.076	6.104	Sulfate

Reviewed By:Iwon
On:3/13/2025 1:56 PM
Inst Id :IC-2
LB :LB135005

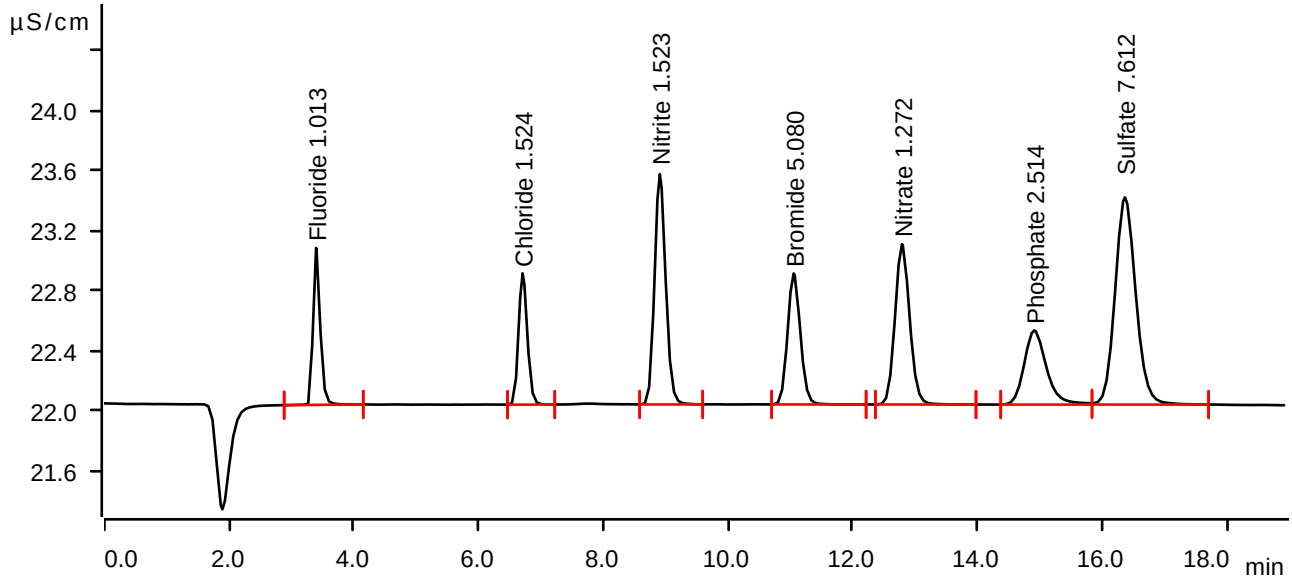
Sample data

Ident	STD4
Sample type	Standard 4
Determination start	2025-02-21 12:09:35 UTC-5
Method	IC1-022125
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	11.94	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	3.395	0.1386	1.042	1.013	Fluoride
2	6.707	0.1422	0.872	1.524	Chloride
3	8.907	0.3178	1.529	1.523	Nitrite
4	11.052	0.2073	0.870	5.080	Bromide
5	12.788	0.2904	1.064	1.272	Nitrate
6	14.908	0.2036	0.492	2.514	Phosphate
7	16.363	0.5305	1.376	7.612	Sulfate

Reviewed By:Iwon
On:3/13/2025 1:56
PM
Inst Id :IC-2
LB :LB135005

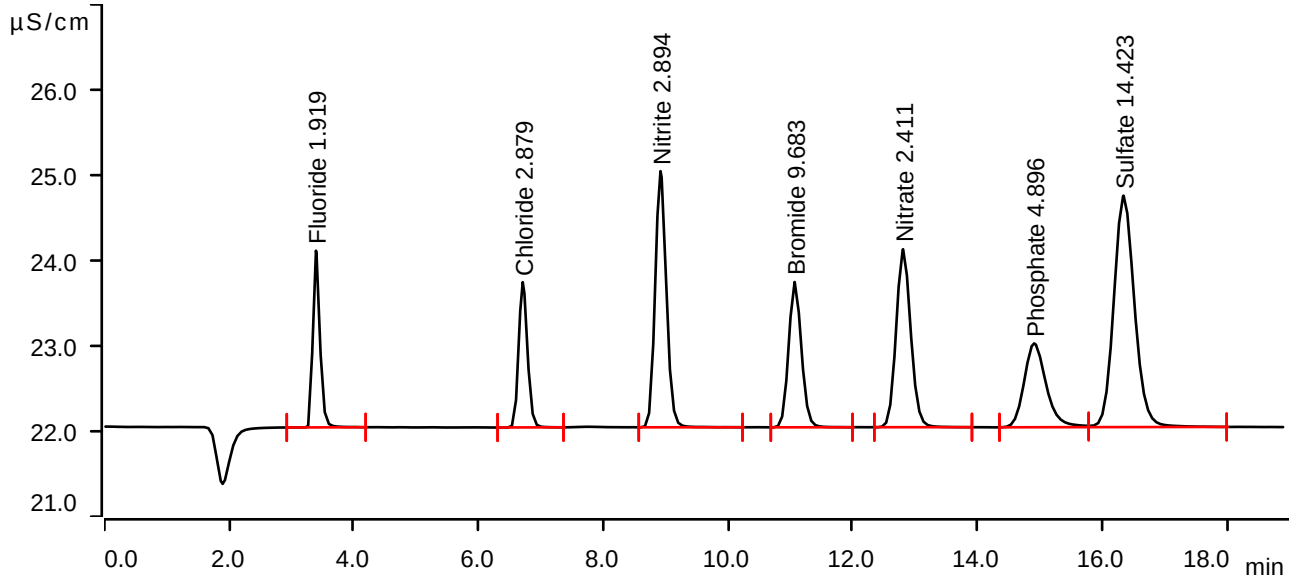
Sample data

Ident	STD5
Sample type	Standard 5
Determination start	2025-02-21 12:31:01 UTC-5
Method	IC1-022125
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	3.393	0.2728	2.069	1.919	Fluoride
2	6.708	0.2780	1.702	2.879	Chloride
3	8.917	0.6246	3.000	2.894	Nitrite
4	11.068	0.4054	1.702	9.683	Bromide
5	12.807	0.5675	2.085	2.411	Nitrate
6	14.907	0.4026	0.982	4.896	Phosphate
7	16.342	1.0436	2.711	14.423	Sulfate

Reviewed By:Iwon
On:3/13/2025 1:56 PM
Inst Id :IC-2
LB :LB135005

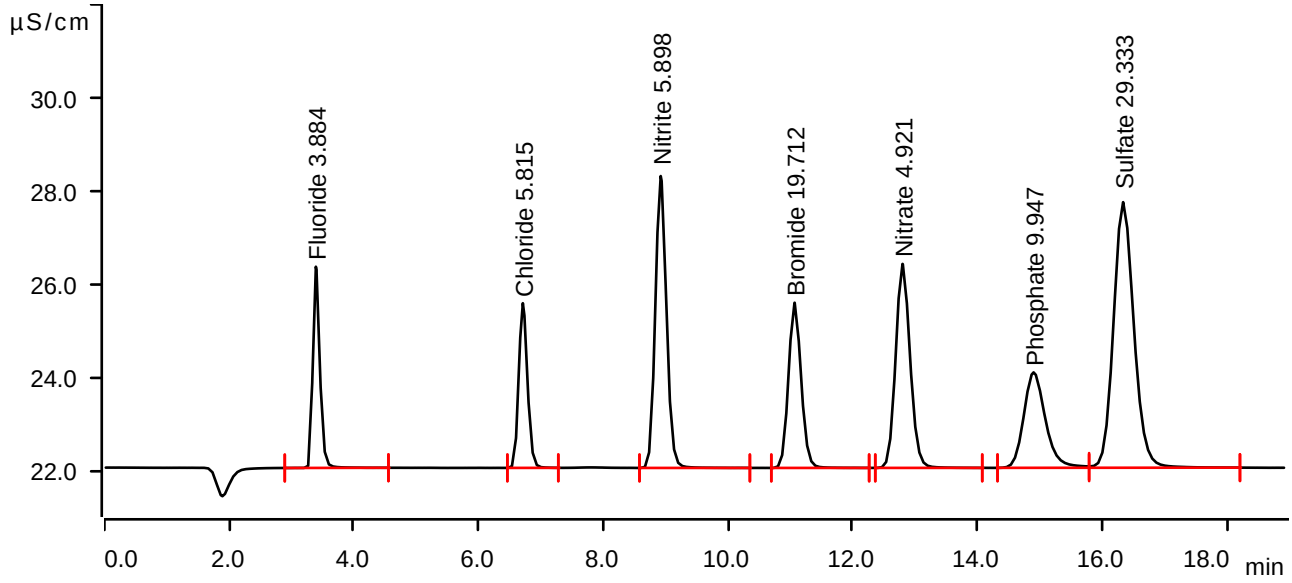
Sample data

Ident	STD6
Sample type	Standard 6
Determination start	2025-02-21 12:52:27 UTC-5
Method	IC1-022125
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	11.94	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	3.392	0.5636	4.320	3.884	Fluoride
2	6.710	0.5722	3.536	5.815	Chloride
3	8.920	1.2971	6.268	5.898	Nitrite
4	11.065	0.8370	3.548	19.712	Bromide
5	12.797	1.1784	4.381	4.921	Nitrate
6	14.898	0.8246	2.050	9.947	Phosphate
7	16.333	2.1670	5.703	29.333	Sulfate

Reviewed By:Iwon
On:3/13/2025 1:56 PM
Inst Id :IC-2
LB :LB135005

Sample data

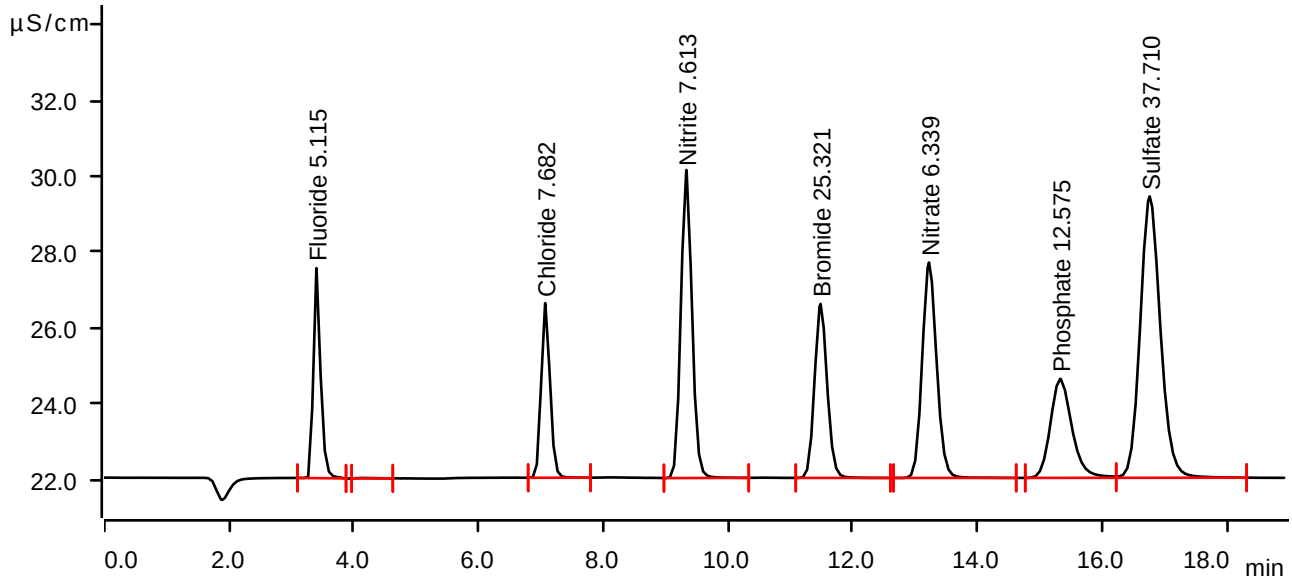
Ident	STD7
Sample type	Standard 7
Determination start	2025-02-21 13:13:53 UTC-5
Method	IC1-022125
Operator	

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

Reviewed By:Iwon
On:3/13/2025 1:56 PM
Inst Id :IC-2
LB :LB135005

Anions



Peak number	Retention time min	Area (µS/cm) x min	Height µS/cm	Concentration ppm	Component name
1	3.400	0.7457	5.535	5.115	Fluoride
2	4.197	0.0046	0.012	invalid	
3	7.070	0.7592	4.602	7.682	Chloride
4	9.330	1.6810	8.120	7.613	Nitrite
5	11.483	1.0784	4.588	25.321	Bromide
6	13.222	1.5233	5.678	6.339	Nitrate
7	15.325	1.0441	2.611	12.575	Phosphate
8	16.760	2.7982	7.416	37.710	Sulfate

Reviewed By:Iwon
On:3/13/2025 1:56 PM
Inst Id :IC-2
LB :LB135005

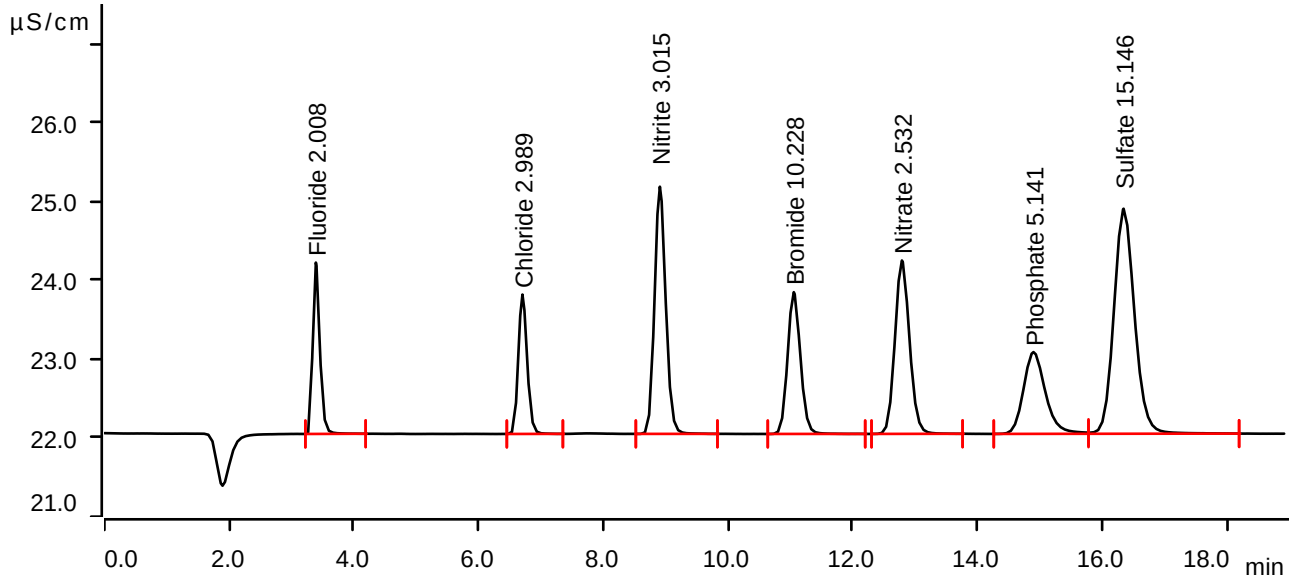
Sample data

Ident	ICV
Sample type	Check standard 1
Determination start	2025-02-21 13:35:21 UTC-5
Method	IC1-022125
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	11.94	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	3.392	0.2859	2.174	2.008	Fluoride
2	6.703	0.2890	1.769	2.989	Chloride
3	8.907	0.6518	3.137	3.015	Nitrite
4	11.053	0.4289	1.799	10.228	Bromide
5	12.787	0.5971	2.200	2.532	Nitrate
6	14.897	0.4230	1.038	5.141	Phosphate
7	16.342	1.0982	2.855	15.146	Sulfate

Reviewed By:Iwon
On:3/13/2025 1:56 PM
Inst Id :IC-2
LB :LB135005

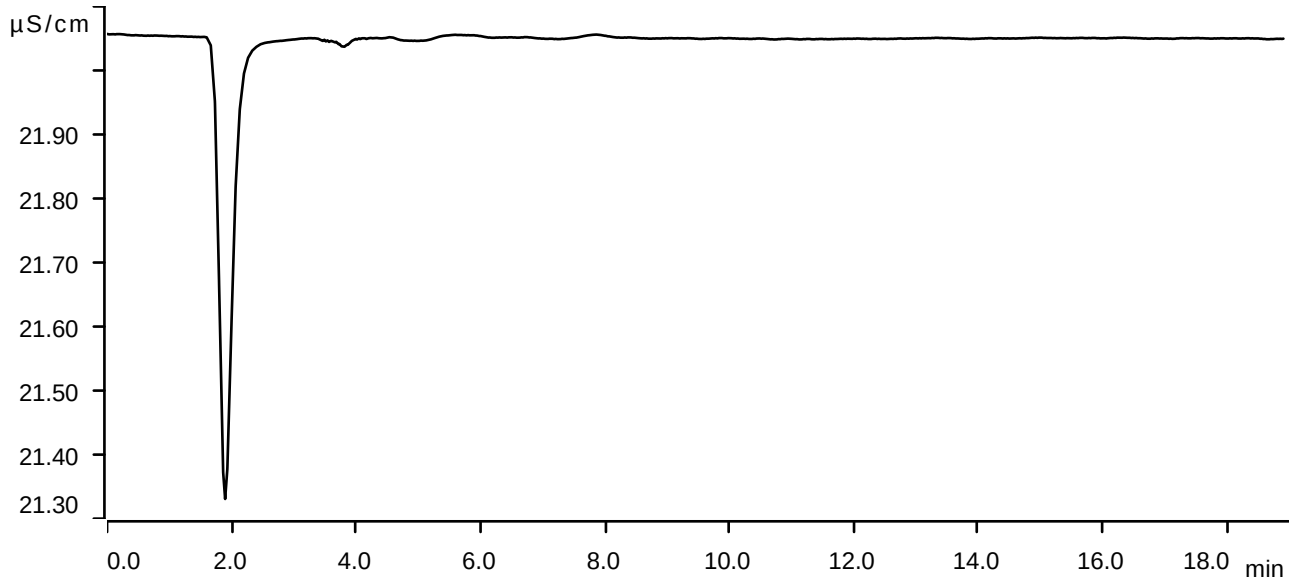
Sample data

Ident	ICB	
Sample type	Sample	
Determination start	2025-02-21 13:56:49 UTC-5	
Method	IC1-022125	
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



Reviewed By:Iwon
On:3/13/2025 1:56 PM
Inst Id :IC-2
LB :LB135005

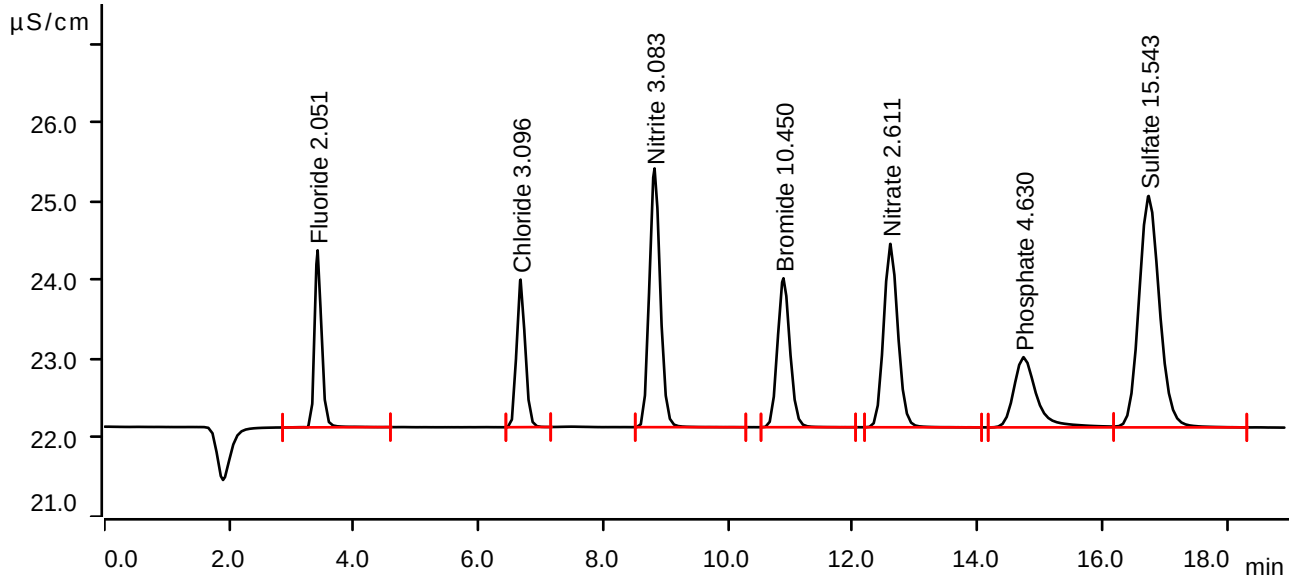
Sample data

Ident	CCV
Sample type	Check standard 1
Determination start	2025-03-11 10:41:14 UTC-4
Method	IC1-022125
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	11.37	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	3.420	0.2923	2.246	2.051	Fluoride
2	6.673	0.2997	1.872	3.096	Chloride
3	8.822	0.6669	3.283	3.083	Nitrite
4	10.888	0.4384	1.890	10.450	Bromide
5	12.603	0.6162	2.328	2.611	Nitrate
6	14.738	0.3804	0.891	4.630	Phosphate
7	16.743	1.1281	2.937	15.543	Sulfate

Reviewed By:Iwon
On:3/13/2025 1:56 PM
Inst Id :IC-2
LB :LB135005

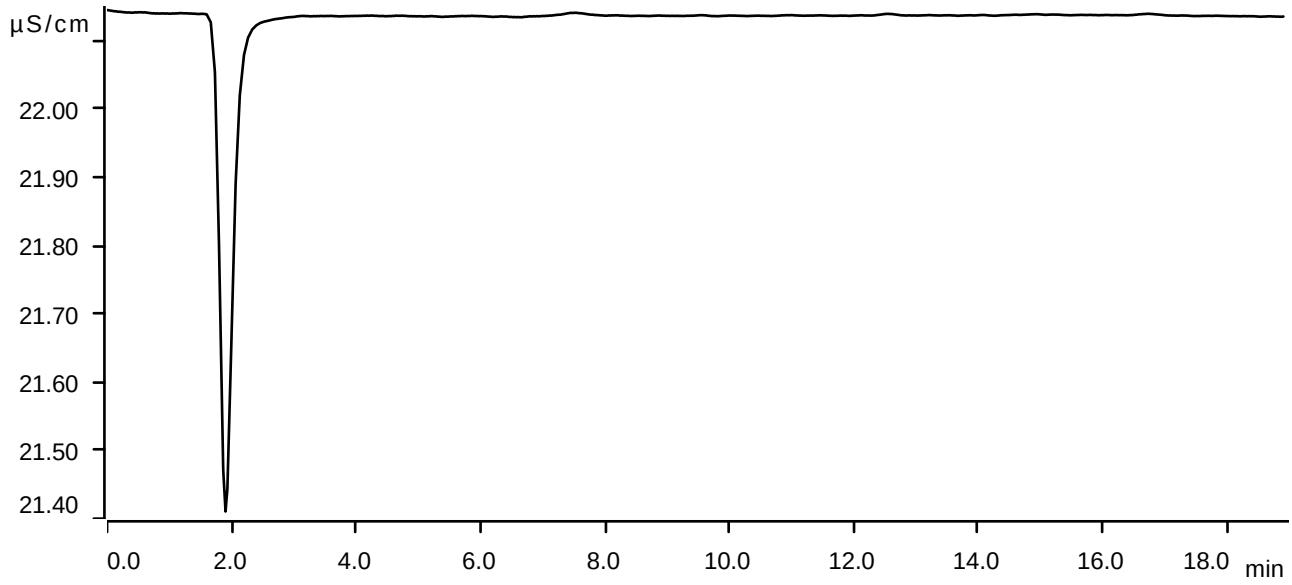
Sample data

Ident	CCB	
Sample type	Sample	
Determination start	2025-03-11 11:02:44 UTC-4	
Method	IC1-022125	
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	11.32	MPa
Maximum pressure monitored	yes	
Temperature	-----	°C

Anions



Reviewed By:Iwon
On:3/13/2025 1:56 PM
Inst Id :IC-2
LB :LB135005

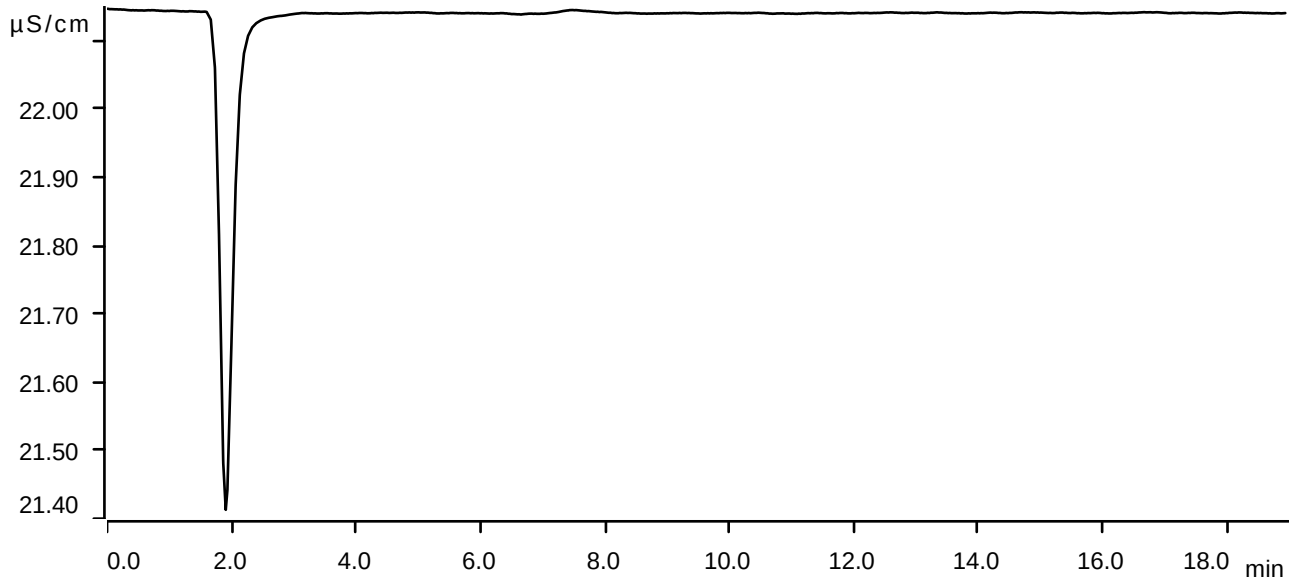
Sample data

Ident	LB135005BLW	
Sample type	Sample	
Determination start	2025-03-11 11:24:14 UTC-4	
Method	IC1-022125	
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	11.49	MPa
Maximum pressure monitored	yes	
Temperature	-----	°C

Anions



Reviewed By:Iwon
On:3/13/2025 1:56 PM
Inst Id :IC-2
LB :LB135005

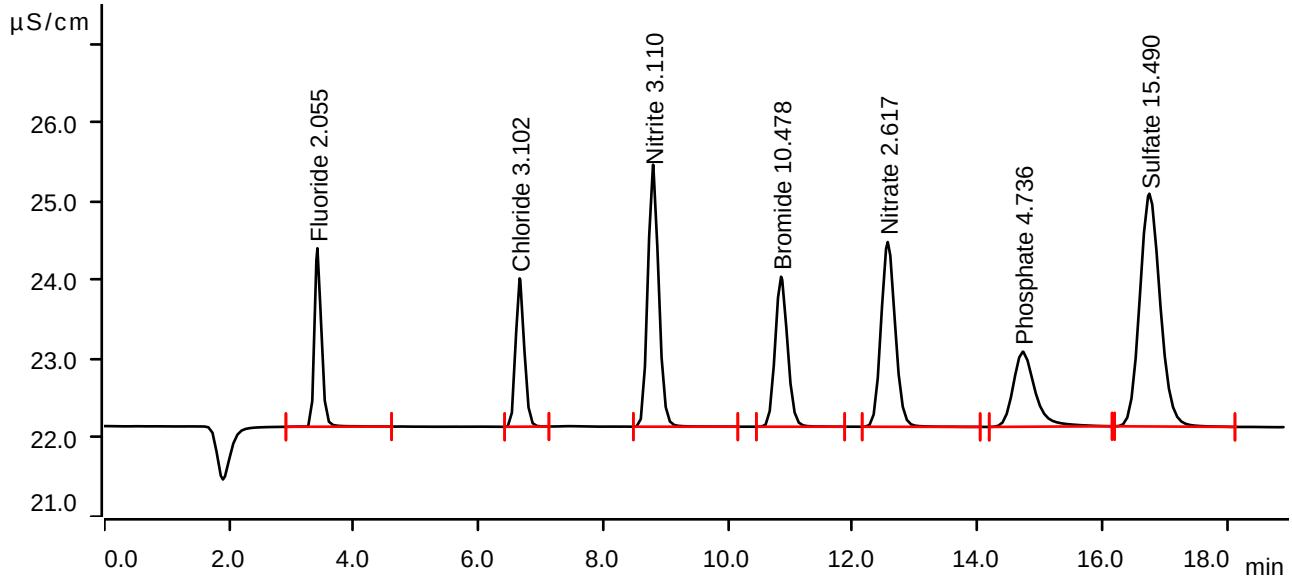
Sample data

Ident	LB135005BSW
Sample type	Check standard 1
Determination start	2025-03-11 11:45:46 UTC-4
Method	IC1-022125
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	11.32	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	3.417	0.2928	2.264	2.055	Fluoride
2	6.658	0.3003	1.883	3.102	Chloride
3	8.797	0.6730	3.325	3.110	Nitrite
4	10.850	0.4396	1.904	10.478	Bromide
5	12.560	0.6178	2.344	2.617	Nitrate
6	14.725	0.3893	0.952	4.736	Phosphate
7	16.755	1.1241	2.954	15.490	Sulfate

Metrohm

Reviewed By:Iwon
On:3/13/2025 1:56 PM
Inst Id :IC-2
LB :LB135005

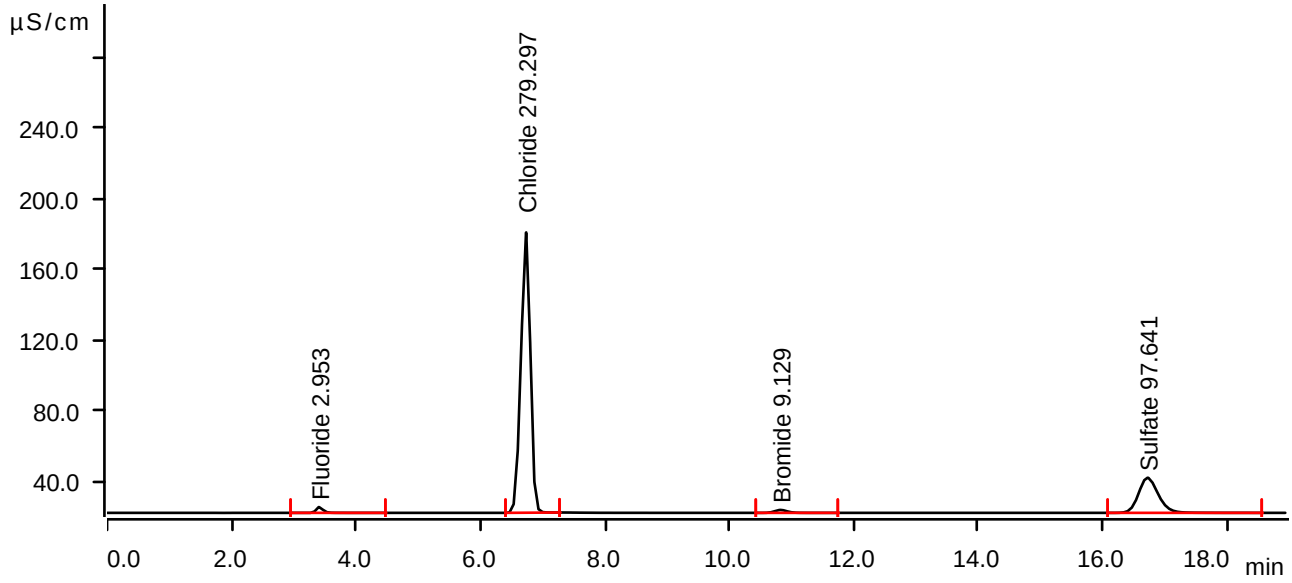
Sample data

Ident	Q1505-06
Sample type	Sample
Determination start	2025-03-11 12:10:32 UTC-4
Method	IC1-022125
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	11.15	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	3.408	0.4258	3.278	2.953	Fluoride
2	6.737	27.9770	158.699	279.297	Chloride
3	10.823	0.3815	1.659	9.129	Bromide
4	16.720	7.3136	19.897	97.641	Sulfate

Reviewed By:Iwon
On:3/13/2025 1:56
PM
Inst Id :IC-2
LB :LB135005

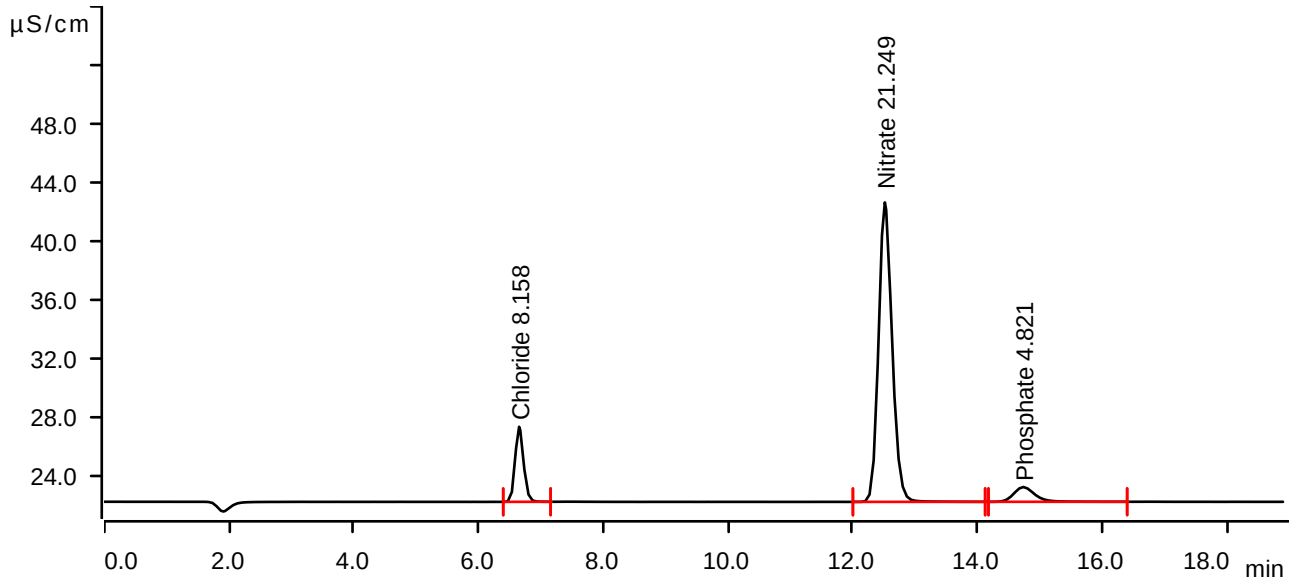
Sample data

Ident	Q1505-12
Sample type	Sample
Determination start	2025-03-11 12:32:05 UTC-4
Method	IC1-022125
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	11.26	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	6.650	0.8069	5.132	8.158	Chloride
2	12.513	5.1514	20.463	21.249	Nitrate
3	14.733	0.3963	1.010	4.821	Phosphate

Reviewed By:Iwon
On:3/13/2025 1:56
PM
Inst Id :IC-2
LB :LB135005

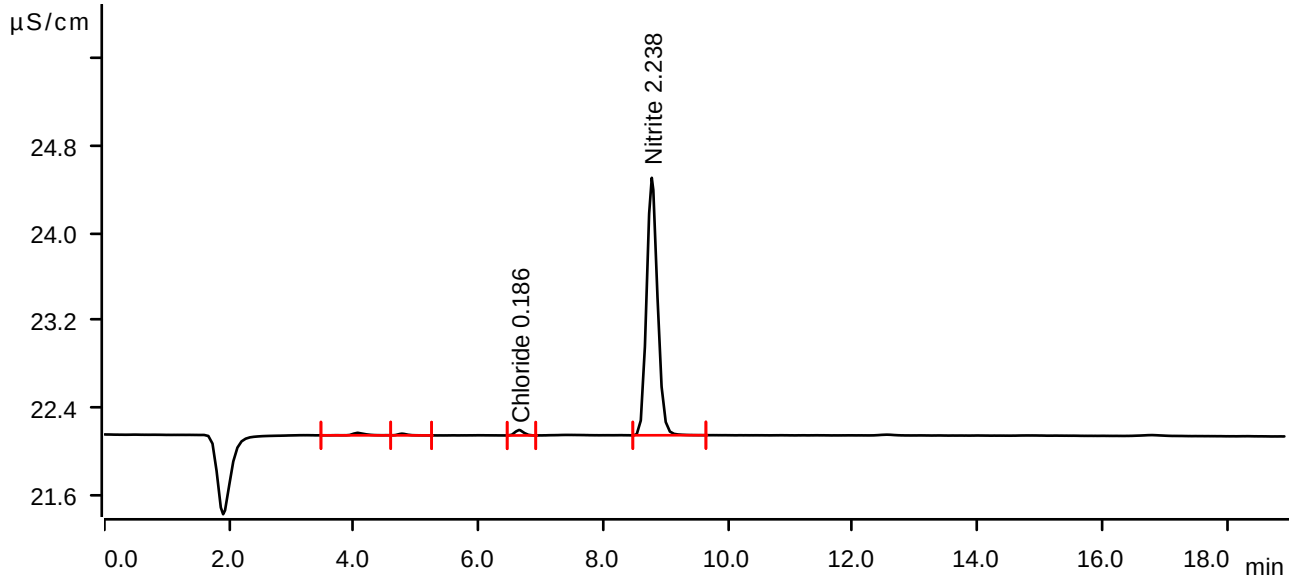
Sample data

Ident	Q1505-16
Sample type	Sample
Determination start	2025-03-11 12:53:39 UTC-4
Method	IC1-022125
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	11.15	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	4.058	0.0057	0.023	invalid	
2	4.770	0.0027	0.016	invalid	
3	6.648	0.0081	0.050	0.186	Chloride
4	8.777	0.4778	2.362	2.238	Nitrite

Reviewed By:Iwon
On:3/13/2025 1:56
PM
Inst Id :IC-2
LB :LB135005

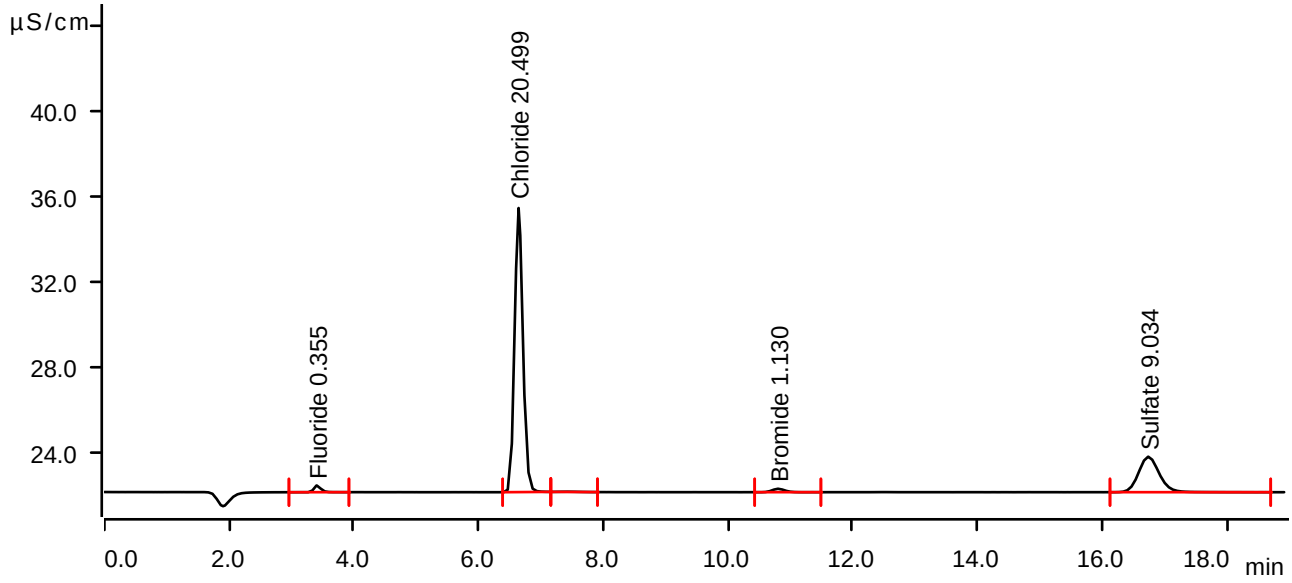
Sample data

Ident	Q1505-06DLX10
Sample type	Sample
Determination start	2025-03-11 13:15:13 UTC-4
Method	IC1-022125
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



Peak number	Retention time min	Area (µS/cm) x min	Height µS/cm	Concentration ppm	Component name
1	3.407	0.0413	0.313	0.355	Fluoride
2	6.642	2.0437	13.309	20.499	Chloride
3	7.420	0.0040	0.011	invalid	
4	10.802	0.0373	0.161	1.130	Bromide
5	16.738	0.6376	1.661	9.034	Sulfate

Reviewed By:Iwon
On:3/13/2025 1:56
PM
Inst Id :IC-2
LB :LB135005

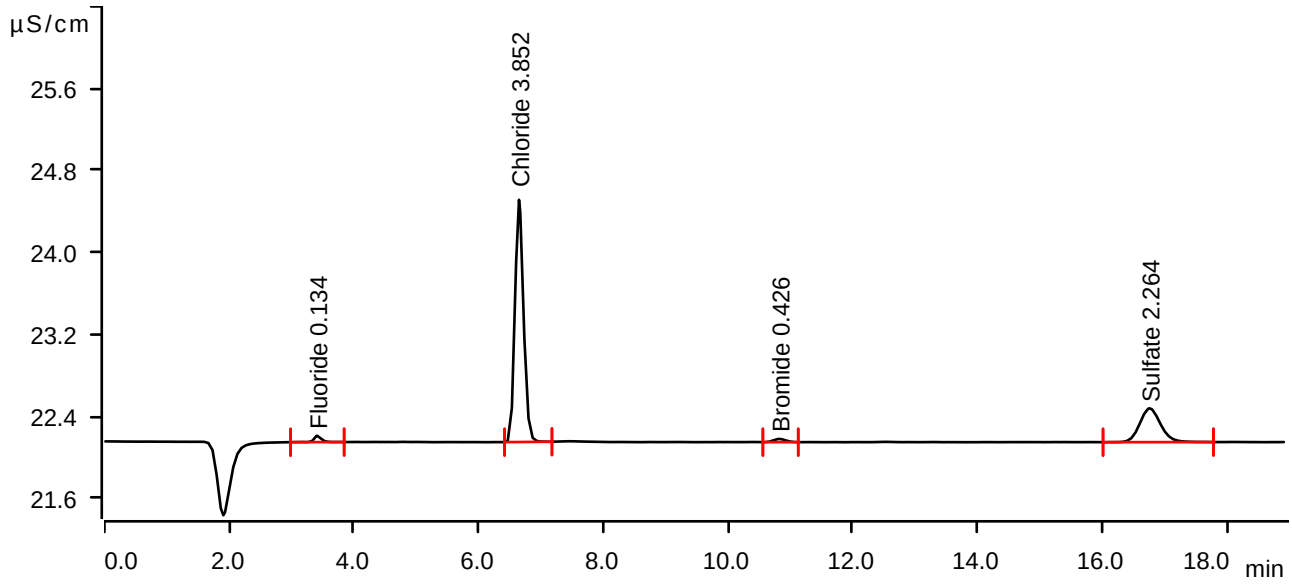
Sample data

Ident	Q1505-06DL2X50
Sample type	Sample
Determination start	2025-03-11 13:36:48 UTC-4
Method	IC1-022125
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	11.32	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	3.412	0.0085	0.062	0.134	Fluoride
2	6.648	0.3755	2.364	3.852	Chloride
3	10.827	0.0070	0.031	0.426	Bromide
4	16.758	0.1276	0.330	2.264	Sulfate

Reviewed By:Iwon
On:3/13/2025 1:56
PM
Inst Id :IC-2
LB :LB135005

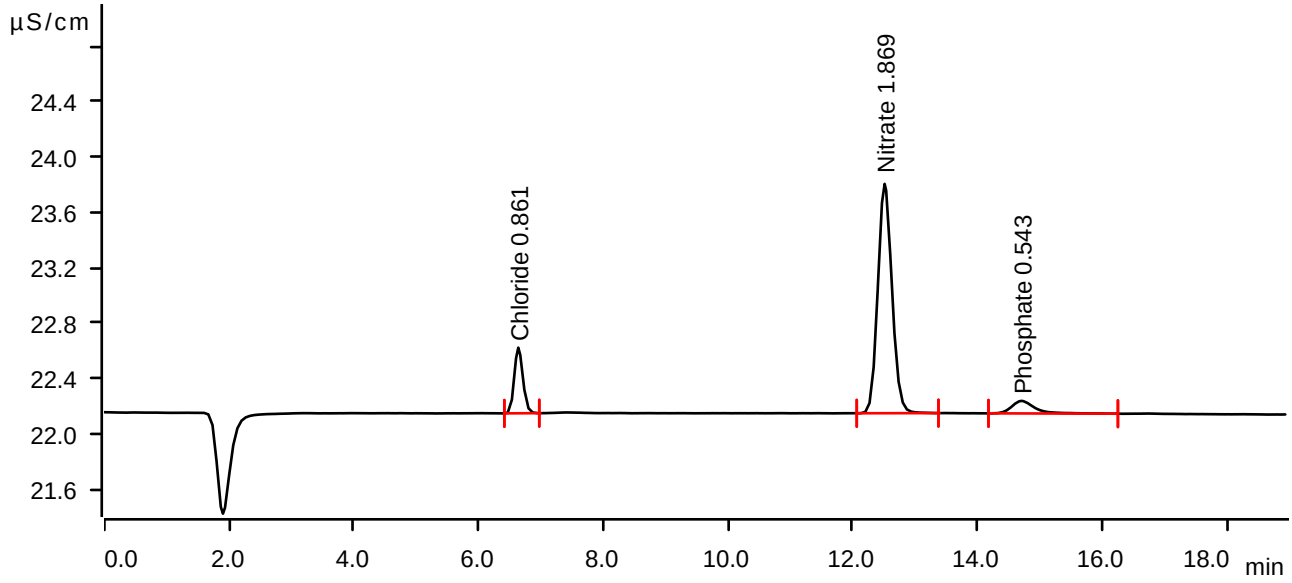
Sample data

Ident	Q1505-12DLX10
Sample type	Sample
Determination start	2025-03-11 13:58:22 UTC-4
Method	IC1-022125
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

Anions



Peak number	Retention time min	Area (µS/cm) x min	Height µS/cm	Concentration ppm	Component name
1	6.637	0.0757	0.474	0.861	Chloride
2	12.510	0.4357	1.657	1.869	Nitrate
3	14.705	0.0389	0.091	0.543	Phosphate

Reviewed By:Iwon
On:3/13/2025 1:56 PM
Inst Id :IC-2
LB :LB135005

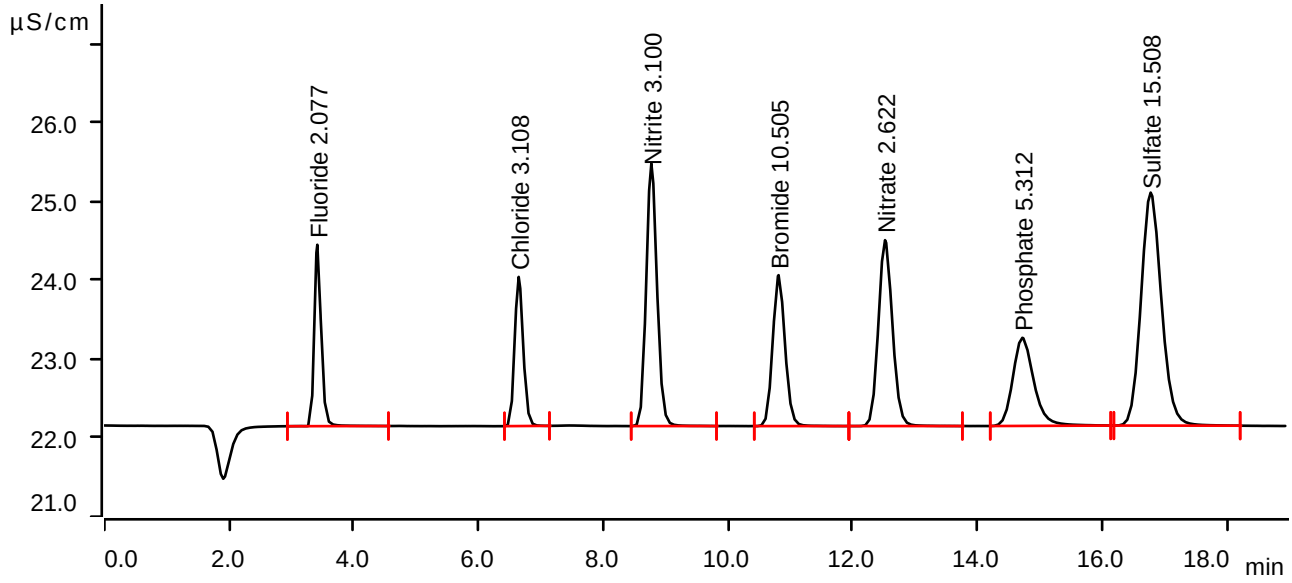
Sample data

Ident	CCV
Sample type	Check standard 1
Determination start	2025-03-11 14:19:55 UTC-4
Method	IC1-022125
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	11.37	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	3.415	0.2961	2.301	2.077	Fluoride
2	6.643	0.3009	1.893	3.108	Chloride
3	8.770	0.6708	3.331	3.100	Nitrite
4	10.810	0.4408	1.915	10.505	Bromide
5	12.517	0.6190	2.360	2.622	Nitrate
6	14.718	0.4374	1.118	5.312	Phosphate
7	16.775	1.1254	2.957	15.508	Sulfate

Reviewed By:Iwon
On:3/13/2025 1:56
PM
Inst Id :IC-2
LB :LB135005

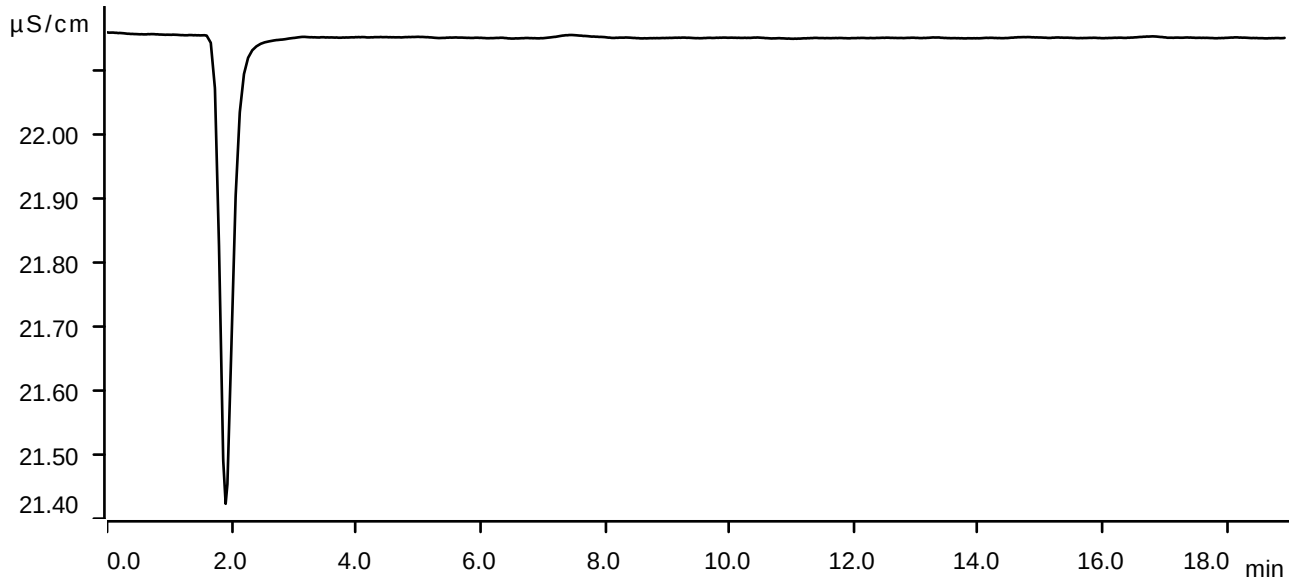
Sample data

Ident	CCB	
Sample type	Sample	
Determination start	2025-03-11 14:41:25 UTC-4	
Method	IC1-022125	
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	11.43	MPa
Maximum pressure monitored	yes	
Temperature	-----	°C

Anions



Reviewed By:Iwon
On:3/13/2025 1:56 PM
Inst Id :IC-2
LB :LB135005

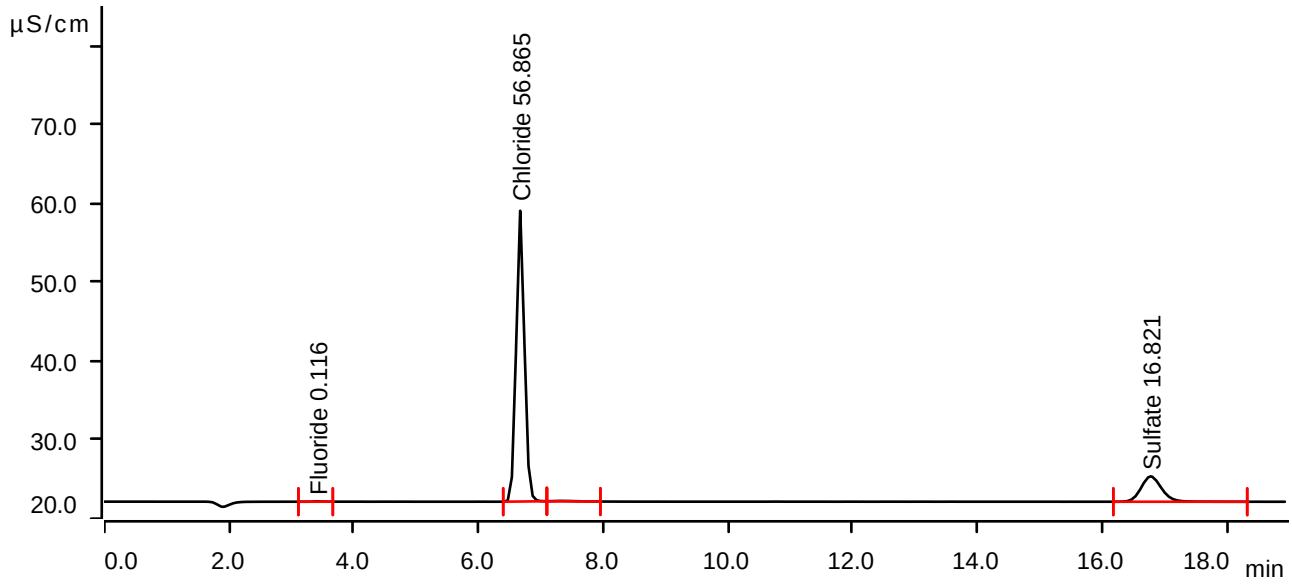
Sample data

Ident	Q1539-01
Sample type	Sample
Determination start	2025-03-11 15:02:56 UTC-4
Method	IC1-022125
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	11.26	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	3.413	0.0059	0.045	0.116	Fluoride
2	6.668	5.6877	36.893	56.865	Chloride
3	7.338	0.0203	0.053	invalid	
4	16.775	1.2243	3.220	16.821	Sulfate

Metrohm

Reviewed By:Iwon
On:3/13/2025 1:56 PM
Inst Id :IC-2
LB :LB135005

Sample data

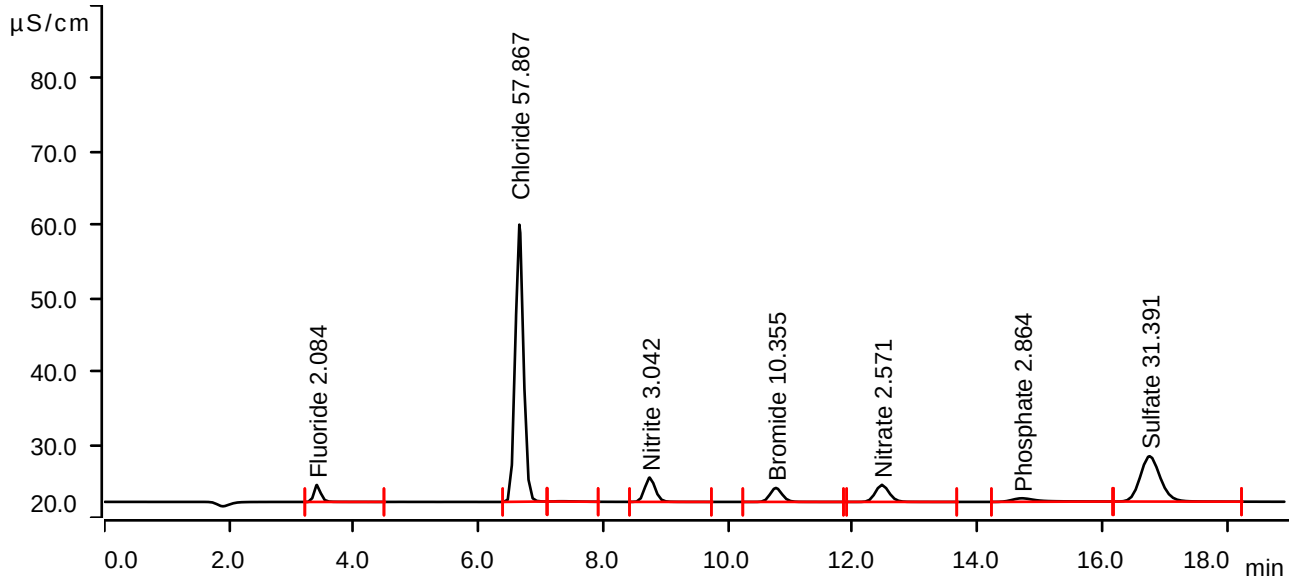
Ident	Q1539-01MS
Sample type	Sample
Determination start	2025-03-11 15:24:29 UTC-4
Method	IC1-022125
Operator	

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

Reviewed By:Iwon
On:3/13/2025 1:56 PM
Inst Id :IC-2
LB :LB135005

Anions



Peak number	Retention time min	Area (µS/cm) x min	Height µS/cm	Concentration ppm	Component name
1	3.408	0.2971	2.317	2.084	Fluoride
2	6.653	5.7881	37.867	57.867	Chloride
3	7.333	0.0171	0.045	invalid	
4	8.743	0.6578	3.320	3.042	Nitrite
5	10.767	0.4343	1.909	10.355	Bromide
6	12.467	0.6065	2.335	2.571	Nitrate
7	14.712	0.2328	0.483	2.864	Phosphate
8	16.758	2.3221	6.207	31.391	Sulfate

Reviewed By:Iwon
On:3/13/2025 1:56
PM
Inst Id :IC-2
LB :LB135005

Sample data

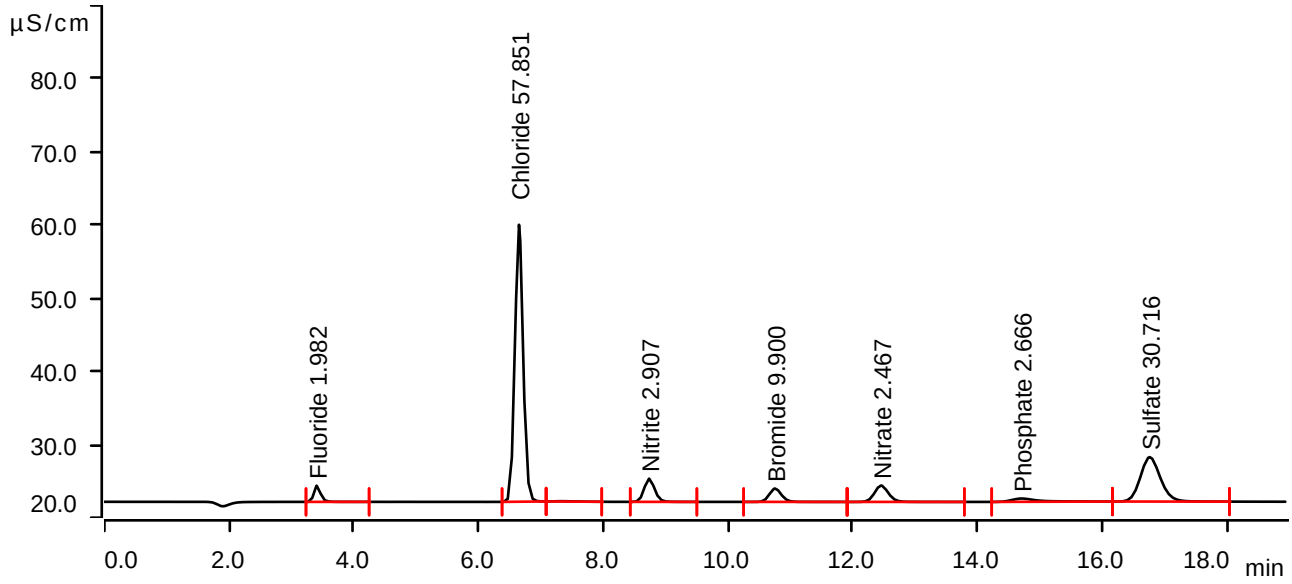
Ident	Q1539-01MSD	
Sample type	Sample	
Determination start	2025-03-11 15:46:01 UTC-4	
Method	IC1-022125	
Operator		

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	11.09	MPa
Maximum pressure monitored	yes	
Temperature	-----	°C

Reviewed By:Iwon
On:3/13/2025 1:56 PM
Inst Id :IC-2
LB :LB135005

Anions



Peak number	Retention time min	Area (µS/cm) x min	Height µS/cm	Concentration ppm	Component name
1	3.405	0.2821	2.210	1.982	Fluoride
2	6.648	5.7866	37.850	57.851	Chloride
3	7.325	0.0177	0.047	invalid	
4	8.735	0.6277	3.176	2.907	Nitrite
5	10.753	0.4147	1.827	9.900	Bromide
6	12.453	0.5813	2.240	2.467	Nitrate
7	14.708	0.2163	0.448	2.666	Phosphate
8	16.760	2.2712	6.084	30.716	Sulfate

Reviewed By:Iwon
On:3/13/2025 1:56 PM
Inst Id :IC-2
LB :LB135005

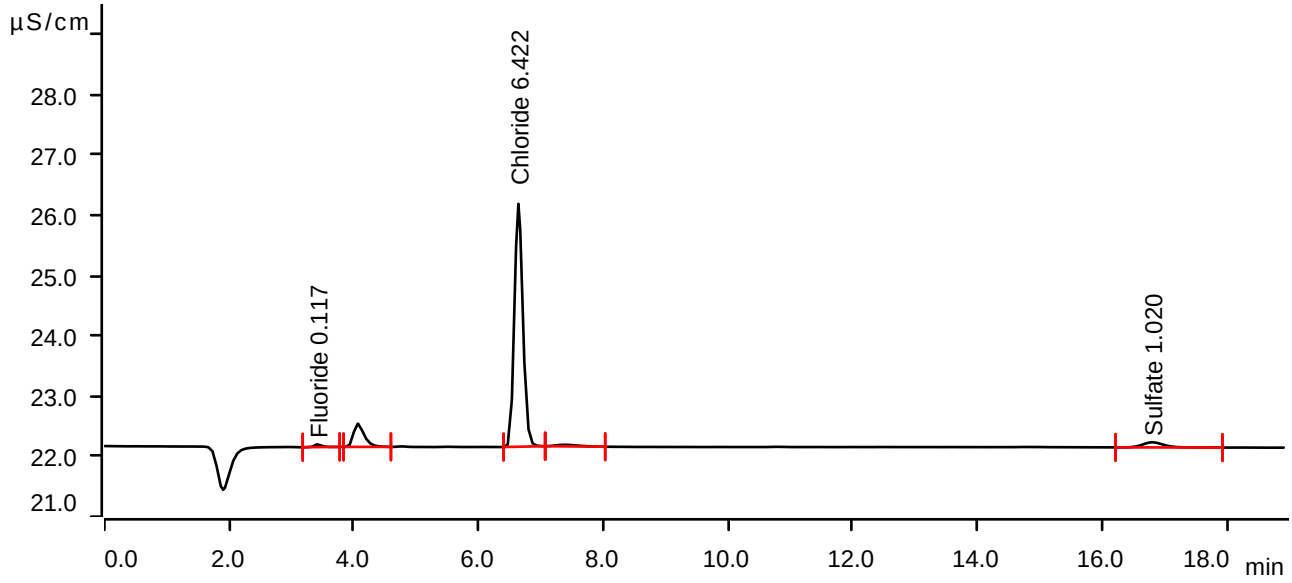
Sample data

Ident	Q1539-02
Sample type	Sample
Determination start	2025-03-11 16:07:33 UTC-4
Method	IC1-022125
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

Anions



Peak number	Retention time min	Area (µS/cm) x min	Height µS/cm	Concentration ppm	Component name
1	3.417	0.0061	0.044	0.117	Fluoride
2	4.063	0.0775	0.385	invalid	
3	6.638	0.6330	4.030	6.422	Chloride
4	7.388	0.0107	0.026	invalid	
5	16.798	0.0338	0.086	1.020	Sulfate

Reviewed By:Iwon
On:3/13/2025 1:56
PM
Inst Id :IC-2
LB :LB135005

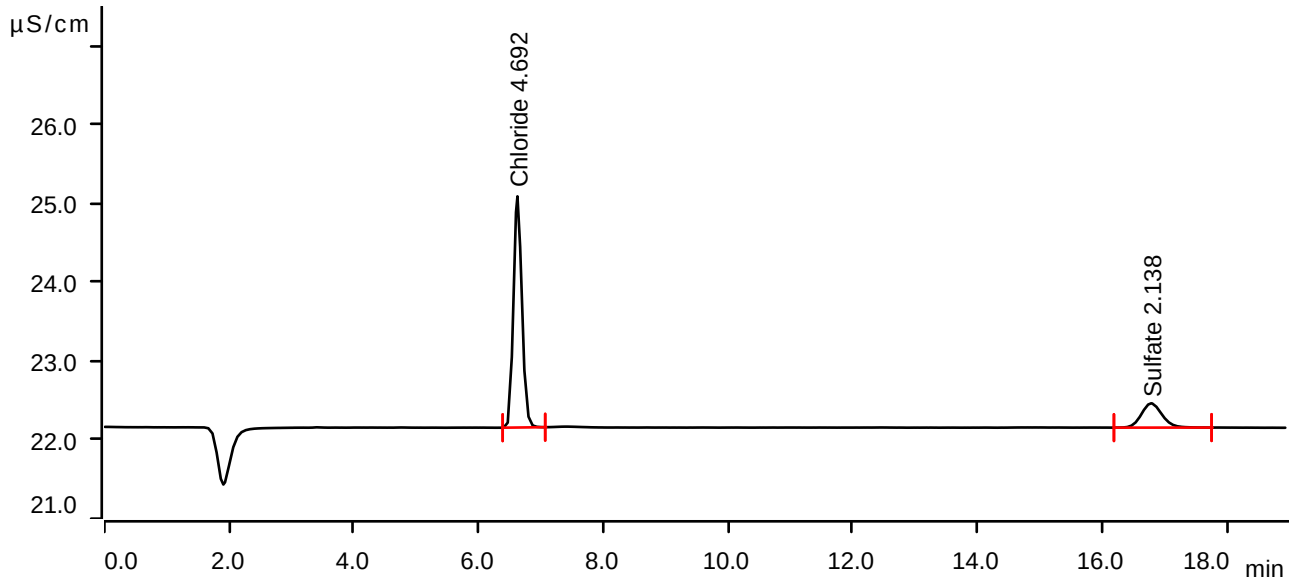
Sample data

Ident	Q1539-01DLX10
Sample type	Sample
Determination start	2025-03-11 16:29:04 UTC-4
Method	IC1-022125
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	11.43	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	6.623	0.4597	2.933	4.692	Chloride
2	16.783	0.1180	0.308	2.138	Sulfate

Metrohm

Reviewed By:Iwon
On:3/13/2025 1:56 PM
Inst Id :IC-2
LB :LB135005

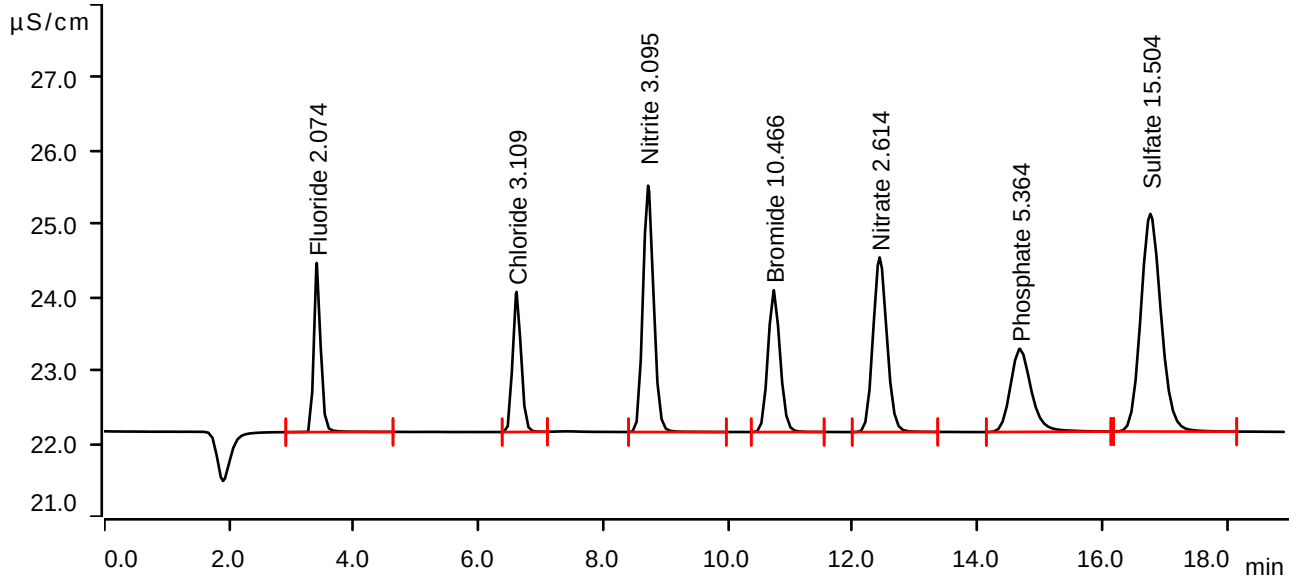
Sample data

Ident	CCV
Sample type	Check standard 1
Determination start	2025-03-11 16:50:29 UTC-4
Method	IC1-022125
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	11.26	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	3.407	0.2956	2.311	2.074	Fluoride
2	6.610	0.3010	1.914	3.109	Chloride
3	8.718	0.6696	3.367	3.095	Nitrite
4	10.732	0.4391	1.939	10.466	Bromide
5	12.430	0.6171	2.387	2.614	Nitrate
6	14.678	0.4417	1.136	5.364	Phosphate
7	16.770	1.1251	2.975	15.504	Sulfate

Reviewed By:Iwon
On:3/13/2025 1:56
PM
Inst Id :IC-2
LB :LB135005

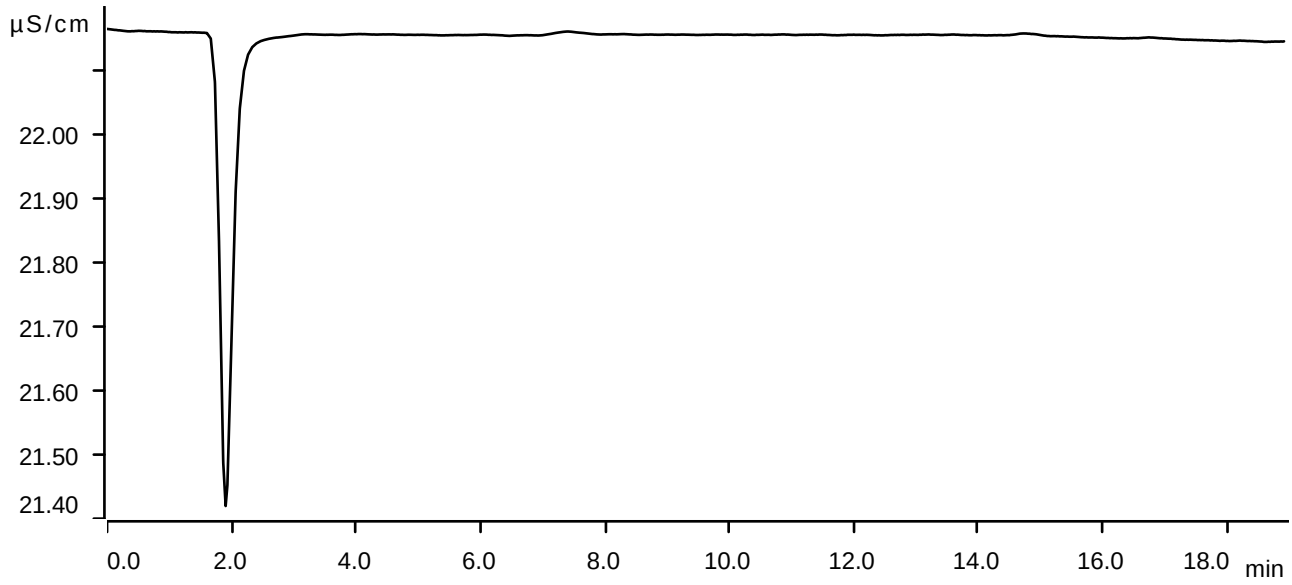
Sample data

Ident	CCB	
Sample type	Sample	
Determination start	2025-03-11 17:11:44 UTC-4	
Method	IC1-022125	
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	11.26	MPa
Maximum pressure monitored	yes	
Temperature	-----	°C

Anions



Reviewed By:Iwona
On:3/13/2025 1:50:26 PM
Inst Id :Konelab 20
LB :LB135012

LB135012

Test results | Aquakem 7.2AQ1 |

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

3/12/2025 16:35 | Reviewed by : RM | Instrument ID : Konelab

Test: Ammonia-N

Sample Id	Result	Dil. 1 +	Response	Errors
ICV1	1.006	0.0	0.172	
ICB1	0.022	0.0	0.016	
CCV1	0.946	0.0	0.162	
CCB1	0.019	0.0	0.015	
RL CHECK	0.108	0.0	0.029	108% (50–150) 03/12/2025 RM
PB167063BL	0.013	0.0	0.014	
PB167063BS	0.980	0.0	0.168	
Q1505-11	3.069	0.0	0.499	Test limit high
Q1519-01	0.827	0.0	0.143	
Q1539-01	0.004	0.0	0.013	
Q1539-02	0.231	0.0	0.049	
Q1539-02DUP	0.227	0.0	0.048	
Q1539-02MS	1.169	0.0	0.198	
Q1539-02MSD	1.184	0.0	0.200	
CCV2	0.971	0.0	0.166	
CCB2	0.022	0.0	0.016	
Q1505-11DLX2	1.454	0.0	0.243	
CCV3	0.951	0.0	0.163	
CCB3	0.017	0.0	0.015	

N	19
Mean	0.696
SD	0.7680
CV%	110.39

Reviewed By:Iwona
On:3/13/2025 1:50:26 PM
Inst Id :Konelab 20
LB :LB135012

Aquakem v. 7.2AQ1
Results from time period:
Wed Mar 12 13:43:22 2025
Wed Mar 12 16:29:03 2025

Sample Id	Sam/Ctr/cA	Test short r	Test type	Result	Result unit	Result date and time	Stat
0.0PPM	A	Ammonia-N	P	0.0196	mg/l	3/12/2025 14:51:16	
0.1PPM	A	Ammonia-N	P	0.1113	mg/l	3/12/2025 14:51:17	
0.2PPM	A	Ammonia-N	P	0.1995	mg/l	3/12/2025 14:51:18	
0.4PPM	A	Ammonia-N	P	0.3937	mg/l	3/12/2025 14:51:19	
1.0PPM	A	Ammonia-N	P	0.9734	mg/l	3/12/2025 14:51:20	
1.3PPM	A	Ammonia-N	P	1.2989	mg/l	3/12/2025 14:51:21	
2.0PPM	A	Ammonia-N	P	2.0371	mg/l	3/12/2025 14:51:22	
ICV1	S	Ammonia-N	P	1.0064	mg/l	3/12/2025 15:25:16	
ICB1	S	Ammonia-N	P	0.0224	mg/l	3/12/2025 15:25:19	
CCV1	S	Ammonia-N	P	0.9457	mg/l	3/12/2025 15:25:21	
CCB1	S	Ammonia-N	P	0.0187	mg/l	3/12/2025 15:25:23	
RL CHECK	S	Ammonia-N	P	0.1082	mg/l	3/12/2025 15:25:24	
PB167063BL	S	Ammonia-N	P	0.0134	mg/l	3/12/2025 15:25:27	
PB167063BS	S	Ammonia-N	P	0.98	mg/l	3/12/2025 15:36:01	
Q1505-11	S	Ammonia-N	P	3.0686	mg/l	3/12/2025 15:36:02	
Q1519-01	S	Ammonia-N	P	0.8268	mg/l	3/12/2025 15:46:44	
Q1539-01	S	Ammonia-N	P	0.0037	mg/l	3/12/2025 15:46:50	
Q1539-02	S	Ammonia-N	P	0.2312	mg/l	3/12/2025 15:46:52	
Q1539-02DUP	S	Ammonia-N	P	0.2274	mg/l	3/12/2025 15:46:53	
Q1539-02MS	S	Ammonia-N	P	1.169	mg/l	3/12/2025 15:55:42	
Q1539-02MSD	S	Ammonia-N	P	1.1836	mg/l	3/12/2025 15:55:43	
CCV2	S	Ammonia-N	P	0.9708	mg/l	3/12/2025 15:55:44	
CCB2	S	Ammonia-N	P	0.0218	mg/l	3/12/2025 15:55:48	
Q1505-11DLX2	S	Ammonia-N	P	1.4544	mg/l	3/12/2025 16:25:51	
CCV3	S	Ammonia-N	P	0.951	mg/l	3/12/2025 16:25:57	
CCB3	S	Ammonia-N	P	0.0165	mg/l	3/12/2025 16:29:03	

Reviewed By:Iwona
On:3/13/2025 1:50:26 PM
Inst Id :Konelab 20
LB :LB135012

Calibration results Aquakem 7.2AQ1

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

Reviewed by : RM

3/12/2025 14:51 Instrument ID : Konelab

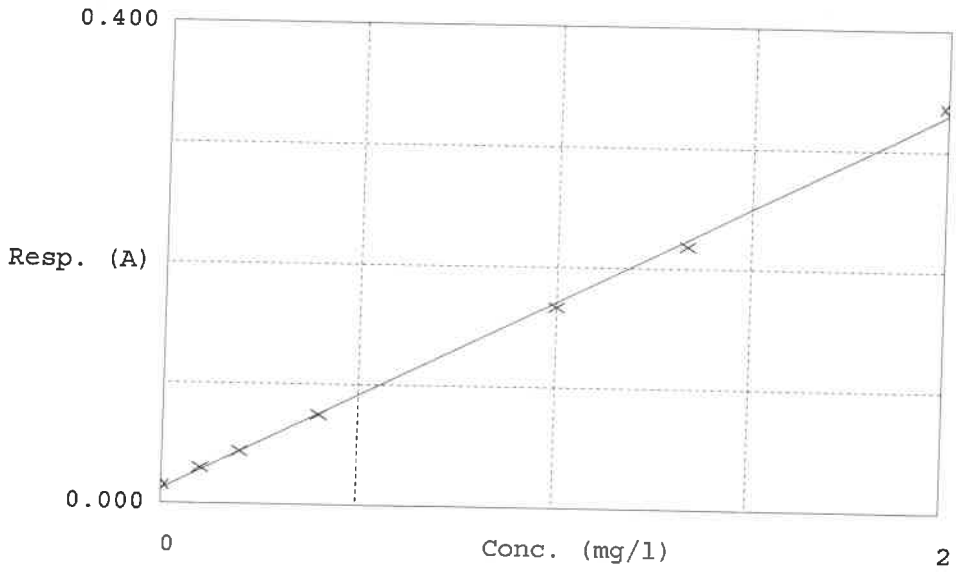
Test Ammonia-N

Accepted 3/12/2025 14:51

Factor 6.3
Bias 0.012

Coeff. of det. 0.998866

Errors



	Calibrator	Response	Calc. con.	Conc.	Errors
1	0.00PPM	0.015	0.0196	0.0000	-
2	NH3-2PPM	0.030	0.1113	0.1000	11.3
3	NH3-2PPM	0.044	0.1995	0.2000	-0.3
4	NH3-2PPM	0.075	0.3937	0.4000	-1.6
5	NH3-2PPM	0.167	0.9734	1.0000	-2.7
6	NH3-2PPM	0.218	1.2989	1.3333	-2.6
7	NH3-2PPM	0.336	2.0371	2.0000	1.9

03/12/2025
RM

Reviewed By:Iwona
On:3/17/2025 4:11:24 PM
Inst Id :WC CONDUCTANCE

Analytical Summary Report

Analysis Method: 9050A
Parameter: Conductance
Run Number: LB135023

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

Reagent/Standard	Lot/Log #
conductivity standard	WP111962

Seq	Lab ID	True Value (mg/L)	Dilution	Temperature °C	Reading (umho/cm)	Result (umho/cm)	Anal Date	Anal Time
1	LB135023BL		1	22.5	0.83	0.87	03/13/2025	13:00
2	LB135023BS	1413	1	22.7	1347.00	1408.89	03/13/2025	13:05
3	Q1505-09		1	22.8	322.00	336.12	03/13/2025	13:10
4	Q1505-09DUP		1	22.7	320.00	334.70	03/13/2025	13:15

Note : Conductivity result is corrected to 25°C

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

WORKLIST(Hardcopy Internal Chain)

LB135023

WorkList Name : CONDUCTANCE PT - 03 **WorkList ID :** 188260 **Department :** Wet-Chemistry **Date :** 03-13-2025 11:37:58

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1505-09	PT-COND-WP	Water	Conductance	Cool 4 deg C	ALLI03	QA Of	03/03/2025	9050A

Date/Time 03.13.2025, 11:45

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:3/17/2025 4:11:24 PM
Inst Id :WC
CONDUCTANCE

TOTAL VOLATILE SOLIDS 160.4

TEMP1 IN:	104 °C	03/13/2025 16:00	**TEMP1 OUT:**	103 °C	03/14/2025 08:00
TEMP2 IN:	104 °C	03/14/2025 08:30	**TEMP2 OUT:**	103 °C	03/14/2025 09:30
TEMP3 IN:	550 °C	03/14/2025 10:00	**TEMP3 OUT:**	550 °C	03/14/2025 11:30
TEMP4 IN:	540 °C	03/14/2025 12:00	**TEMP4 OUT:**	540 °C	03/14/2025 13:30

Run Number: LB135025
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	LB135025BL	89.6321	89.6321	100	89.6321	89.6321	89.6321	89.6321	0.0000	0
2	Q1505-31	94.6005	94.6005	100	94.6259	94.6259	94.6010	94.6010	0.0249	249

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)

LB135025

WorkList Name : TVS W Q1505 **WorkList ID :** 188261 **Department :** Wet-Chemistry **Date :** 03-13-2025 12:30:58

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1505-31	PT-VSOL-WP	Water	TVS	Cool 4 deg C	ALLI03	QA Of	03/03/2025	160.4

Date/Time 03/13/25 13:30
Raw Sample Received by: [illegible] (WC)
Raw Sample Relinquished by: SJ (QAO)

Date/Time 03/13/25 16:30
Raw Sample Received by: [illegible]
Raw Sample Relinquished by: [illegible]

Reviewed By:Iwona
On:4/9/2025 4:00:20 PM
Inst Id :WC SC-3
LB :LB135025

TOTAL VOLATILE SOLIDS SM2540 G

TEMP1 IN:	104 °C	03/13/2025 16:00	**TEMP1 OUT:**	103 °C	03/14/2025 08:00
TEMP2 IN:	104 °C	03/14/2025 08:30	**TEMP2 OUT:**	103 °C	03/14/2025 09:30
TEMP3 IN:	550 °C	03/14/2025 10:00	**TEMP3 OUT:**	550 °C	03/14/2025 11:30
TEMP4 IN:	540 °C	03/14/2025 12:00	**TEMP4 OUT:**	540 °C	03/14/2025 13:30

Run Number: LB135026
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	LB135026BL	89.6321	89.6321	100	89.6321	89.6321	89.6321	89.6321	0.0000	0
2	Q1505-32	94.6005	94.6005	100	94.6259	94.6259	94.6010	94.6010	0.0249	249

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)

LB135026

WorkList Name : Q1505 W TVS **WorkList ID :** 188262 **Department :** Wet-Chemistry **Date :** 03-13-2025 12:31:50

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1505-32	PT-VSOL-WP	Water	TVS	Cool 4 deg C	ALLI03	QA Of	03/03/2025	SM2540 G

Date/Time 03/13/25 13:30
Raw Sample Received by: JB WC
Raw Sample Relinquished by: SJ (QAO)

Date/Time 03/13/25 16:30
Raw Sample Received by: N/A
Raw Sample Relinquished by: JB WC

Reviewed By:Iwona
On:4/9/2025 4:00:10 PM
Inst Id :WC SC-3
LB :LB135026

Extraction and Analytical Summary Report

Analysis Method: 1664A
Test: Oil and Grease
Run Number: LB135027
Analysis Date: 03/14/2025
BalanceID: WC SC-6
OvenID: EXT OVEN-3

ANALYST: jignesh
REVIEWED BY: Iwona
Extraction Date: 03/14/2025
Extration IN Time: 08:30
Extration OUT Time: 09:20
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	LB135027BL	LB135027BL	WATER	1.3	1000	100	2.4893	2.4893	0	2.4894	2.4894	0.0001	0.1
2	LB135027BS	LB135027BS	WATER	1.3	1000	100	2.7403	2.7403	0	2.7572	2.7572	0.0169	16.9
3	Q1505-17	PT-ORG1L-WP	WATER	1.3	880	100	3.0095	3.0095	0	3.0277	3.0277	0.0182	20.68
4	Q1539-01	TAPIAL3-MW03D-031025-0	WATER	1.3	1000	100	3.0349	3.0349	0	3.0355	3.0355	0.0006	0.6
5	Q1539-02	TAPFTA-MW01I-031025-00	WATER	1.3	1000	100	3.1041	3.1041	0	3.1045	3.1045	0.0004	0.4
6	Q1567-01	EFFLUENT	WATER	1.3	1000	100	3.0634	3.0634	0	3.0761	3.0761	0.0127	12.7
7	Q1567-02	Q1567-01MS	WATER	1.6	1000	100	2.8963	2.8963	0	2.9292	2.9292	0.0329	32.9
8	Q1567-03	Q1567-01MSD	WATER	1.6	1000	100	3.0147	3.0147	0	3.0476	3.0476	0.0329	32.9

QC Batch# LB135027 **Test:** Oil and Grease **Analysis Date:** 03/14/2025

Chemicals Used:

Chemical Name	Chemical Lot #
HEXANE	W3177
pH Paper 0-14	M6069
Sodium Sulfate	EP2593
1:1 HCL	WP110826
Silica Gel	NA
Sand	NA

Standards Used:

Standard Name	Amount Used	Standard Lot #
LCSW	2.5 ML	WP100827
LCSWD	NA	NA
MS/MSD	2.5 ML	WP100828

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: 08:40

In OVEN TEMP1 : 71 °C **Dessicator Time In1 :** 11:26
In Time1: 10:00
Out OVEN TEMP1: 71 °C **Dessicator Time Out1:** 12:00
Out Time1: 11:25

After Analysis

0.0020 gram Balance: 0.0021 **(0.0018-0.0022)**
1.0000 gram Balance: 1.0003 **(0.9950-1.0050)**
Bal Check Time: 13:40

In OVEN TEMP2 : 70 °C **Dessicator Time In2 :** 13:01
In Time2: 12:30
Out OVEN TEMP2: 71 °C **Dessicator Time Out2:** 13:35
Out Time2: 13:00

LB 135027

WORKLIST(Hardcopy Internal Chain)

WorkList Name : oil & grease q1505 **WorkList ID :** 188266 **Department :** Wet-Chemistry **Date :** 03-14-2025 08:15:48

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1505-17	PT-ORG1L-WP	Water	Oil and Grease	Conc H2SO4 to pH < 2	ALLI03	QA Of	03/03/2025	1664A
Q1539-01 S	TAPIAL3-MW03D-031025-00-T	Water	Oil and Grease	Conc H2SO4 to pH < 2	WEST04	I31	03/10/2025	1664A
Q1539-02 S	TAPFTA-MW01I-031025-00-T2	Water	Oil and Grease	Conc H2SO4 to pH < 2	WEST04	I31	03/10/2025	1664A
Q1567-01 E	EFFLUENT	Water	Oil and Grease	Conc H2SO4 to pH < 2	HOLL01	F11	03/13/2025	1664A
Q1567-02	Q1567-01MS	Water	Oil and Grease	Conc H2SO4 to pH < 2	HOLL01	F11	03/13/2025	1664A
Q1567-03	Q1567-01MSD	Water	Oil and Grease	Conc H2SO4 to pH < 2	HOLL01	F11	03/13/2025	1664A

Date/Time 03/14/25 08:25

Raw Sample Received by:

Raw Sample Relinquished by:

Date/Time 03/14/25 13:30

Raw Sample Received by:

Raw Sample Relinquished by:

Reviewed By:Iwona On:3/14/2025 1:47:18 PM Inst Id :WC SC-3 LB :LB135027

Extraction and Analytical Summary Report

Analysis Method: 1664A
Test: TPH
Run Number: LB135028
Analysis Date: 03/14/2025
BalanceID: WC SC-6
OvenID: EXT OVEN-3

ANALYST: jignesh
REVIEWED BY: Iwona
Extraction Date: 03/14/2025
Extration IN Time: 09:00
Extration OUT Time: 09:47
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	LB135028BL	LB135028BL	WATER	1.3	1000	100	2.7563	2.7563	3.01	2.7564	2.7564	0.0001	0.1
2	LB135028BS	LB135028BS	WATER	1.3	1000	100	2.9303	2.9303	3.02	2.9473	2.9473	0.0170	17
3	LB135028BSD	LB135028BSD	WATER	1.3	1000	100	3.0159	3.0159	3.03	3.0333	3.0333	0.0174	17.4
4	Q1505-18	RR-TPH1L-WP	WATER	1.3	880	100	3.0002	3.0002	3.04	3.0612	3.0612	0.0610	69.32
5	Q1551-01	GRAB	WATER	1.6	1000	100	3.0455	3.0455	3.05	3.1793	3.1793	0.1338	133.8

QC Batch# LB135028 Test: TPH Analysis Date: 03/14/2025

Chemicals Used:

Chemical Name	Chemical Lot #
HEXANE	W3177
pH Paper 0-14	M6069
Sodium Sulfate	EP2593
1:1 HCL	WP110826
Silica Gel	W3079
Sand	NA

Standards Used:

Standard Name	Amount Used	Standard Lot #
LCSW	5.00 ML	WP100827
LCSWD	5.00 ML	WP100828
MS/MSD	NA	NA

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: 09:11

In OVEN TEMP1 : 71 °C **Dessicator Time In1 :** 11:21
In Time1: 10:30
Out OVEN TEMP1: 71 °C **Dessicator Time Out1:** 12:10
Out Time1: 11:20

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: 14:05

In OVEN TEMP2 : 70 °C **Dessicator Time In2 :** 14:00
In Time2: 12:40
Out OVEN TEMP2: 71 °C **Dessicator Time Out2:** 14:01
Out Time2: 13:15

WORKLIST(Hardcopy Internal Chain)

LB 135028

WorkList Name : tph q1505 **WorkList ID :** 188267 **Department :** Wet-Chemistry **Date :** 03-14-2025 08:16:42

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1505-18	RR-TPH1L-WP	Water	TPH	Conc H2SO4 to pH < 2	ALLI03	QA Of	03/03/2025	1664A
Q1551-01	GRAB	Water	TPH	Conc H2SO4 to pH < 2	ARAM01	F11	03/12/2025	1664A

Date/Time 03/14/25 08:25

Raw Sample Received by: JB (WOC)

Raw Sample Relinquished by:

Date/Time 03/14/25 14:00

Raw Sample Received by:

Raw Sample Relinquished by: JB (WOC)

Reviewed By:Iwona
On:3/14/2025 1:47:03 PM
Inst Id :WC SC-3
LB :LB135028

Reviewed By:Iwona
On:3/18/2025 4:49:36 PM
Inst Id :SPECTROPHOTOME

Analytical Summary Report

Analysis Method: SM4500-P E

Parameter: Phosphorus-Ortho

Run Number: LB135037

ANALYST: Niha

SUPERVISOR REVIEW BY: Iwona

Reagent/Standard	Lot/Log #
calibration std. phosphate 1 ppm	WP112304
calibration std. phosphate 0.5 ppm	WP112303
calibration std. phosphate 0.3 ppm	WP112302
calibration std. phosphate 0.1 ppm	WP112301
calibration std. phosphate 0.05 ppm	WP112300
calibration std. 0 ppm	WP112299
phosphate CCV std.	WP112305
5N sulfuric acid	WP110380
Combined reagent	WP112308
Phenolphthalein indicator	WP111415
Sodium hydroxide, 1N	WP111323
Phosphate ICV-LCS Std	WP112306

Intercept: -0.0039 **Slope:** 0.6535 **Regression:** 0.999544

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	0.006		03/14/2025	15:15
2	CAL2	0.05	1	50	50	0.028	0.049	-2	03/14/2025	15:15
3	CAL3	0.10	1	50	50	0.065	0.105	5	03/14/2025	15:16
4	CAL4	0.30	1	50	50	0.178	0.278	-7.3	03/14/2025	15:16
5	CAL5	0.50	1	50	50	0.330	0.511	2.2	03/14/2025	15:17
6	CAL6	1.00	1	50	50	0.650	1.001	0.1	03/14/2025	15:17

Reviewed By:Iwona
On:3/18/2025 4:49:36 PM
Inst Id :SPECTROPHOTOME

Analytical Summary Report

Analysis Method: SM4500-P E
ANALYST: Niha
Parameter: Phosphorus-Ortho
SUPERVISOR REVIEW BY: Iwona
Run Number: LB135037

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	0.328	0.508	03/14/2025	15:18
2	ICB		1	50	50	0.000	0.006	03/14/2025	15:18
3	CCV1	0.5	1	50	50	0.330	0.511	03/14/2025	15:19
4	CCB1		1	50	50	0.000	0.006	03/14/2025	15:19
5	RL Check	0.01	1	50	50	0.032	0.055	03/14/2025	15:20
6	LB135037BL		1	50	50	0.000	0.006	03/14/2025	15:20
7	LB135037BS	0.5	1	50	50	0.326	0.505	03/14/2025	15:21
8	Q1505-12		10	50	50	0.298	0.462	03/14/2025	15:21
9	Q1567-01		1	50	50	0.074	0.119	03/14/2025	15:22
10	Q1567-01DUP		1	50	50	0.076	0.122	03/14/2025	15:22
11	Q1567-01MS	0.5	1	50	50	0.358	0.554	03/14/2025	15:23
12	Q1567-01MSD	0.5	1	50	50	0.360	0.557	03/14/2025	15:23
13	CCV2	0.5	1	50	50	0.324	0.502	03/14/2025	15:24
14	CCB2		1	50	50	0.000	0.006	03/14/2025	15:24

LB135037

WORKLIST(Hardcopy Internal Chain)

WorkList Name : ORTHO P-03142025 **WorkList ID :** 188276 **Department :** Wet-Chemistry **Date :** 03-14-2025 08:37:36

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1505-12	PT-NUT1-WP	Water	Phosphorus-Ortho	Cool 4 deg C	ALLI03	QA Of	03/03/2025	SM4500-P E
Q1567-01	EFFLUENT	Water	Phosphorus-Ortho	Cool 4 deg C	HOLL01	F11	03/13/2025	SM4500-P E

Date/Time 03.14.2025, 10:50
Raw Sample Received by: NFLWC
Raw Sample Relinquished by: NFLWC

Date/Time 03.14.2025, 16:00
Raw Sample Received by: NFLWC
Raw Sample Relinquished by: NFLWC

Reviewed By:lwona
On:3/18/2025 4:49:36 PM
Inst Id :SPECTROPHOTOME

Reviewed By:Iwona
On:3/18/2025 4:48:37 PM
Inst Id :SPECTROPHOTOME

Analytical Summary Report

Analysis Method: 365.3

Parameter: Phosphorus-Total

Run Number: LB135041

ANALYST: Niha

SUPERVISOR REVIEW BY: Iwona

Reagent/Standard	Lot/Log #
calibration std. phosphate 1 ppm	WP112304
calibration std. phosphate 0.5 ppm	WP112303
calibration std. phosphate 0.3 ppm	WP112302
calibration std. phosphate 0.1 ppm	WP112301
calibration std. phosphate 0.05 ppm	WP112300
calibration std. 0 ppm	WP112299
phosphate CCV std.	WP112305
5N sulfuric acid	WP110380
Combined reagent	WP112308
Phenolphthalein indicator	WP111415
Sodium hydroxide, 1N	WP111323
Phosphate ICV-LCS Std	WP112306

Intercept: -0.0051 **Slope:** 0.6711 **Regression:** 0.999594

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	0.008		03/14/2025	14:10
2	CAL2	0.05	1	50	50	0.030	0.052	4	03/14/2025	14:10
3	CAL3	0.10	1	50	50	0.066	0.106	6	03/14/2025	14:11
4	CAL4	0.30	1	50	50	0.182	0.279	-7	03/14/2025	14:11
5	CAL5	0.50	1	50	50	0.330	0.499	-0.2	03/14/2025	14:12
6	CAL6	1.00	1	50	50	0.670	1.006	0.6	03/14/2025	14:12

Reviewed By:Iwona
On:3/18/2025 4:48:37 PM
Inst Id :SPECTROPHOTOME

Analytical Summary Report

Analysis Method: 365.3 ANALYST: Niha

Parameter: Phosphorus-Total SUPERVISOR REVIEW BY: Iwona

Run Number: LB135041

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	0.490	03/14/2025	14:13
2	ICB		1	50	50	0.000	0.008	03/14/2025	14:13
3	CCV1	0.50	1	50	50	0.325	0.492	03/14/2025	14:14
4	CCB1		1	50	50	0.000	0.008	03/14/2025	14:14
5	RL Check	0.01	1	50	50	0.032	0.055	03/14/2025	14:15
6	PB167144BL		1	50	50	0.000	0.008	03/14/2025	14:15
7	PB167144BS	0.50	1	50	50	0.328	0.496	03/14/2025	14:16
8	Q1505-13		1	50	50	0.774	1.161	03/14/2025	14:16
9	Q1567-01		1	50	50	0.124	0.192	03/14/2025	14:17
10	Q1567-01DUP		1	50	50	0.122	0.189	03/14/2025	14:17
11	Q1567-01MS	0.50	1	50	50	0.430	0.648	03/14/2025	14:18
12	Q1567-01MSD	0.50	1	50	50	0.428	0.645	03/14/2025	14:18
13	Q1505-13		5	50	50	0.273	0.414	03/14/2025	14:19
14	CCV2	0.50	1	50	50	0.324	0.490	03/14/2025	14:19
15	CCB2		1	50	50	0.000	0.008	03/14/2025	14:20

Reviewed By:Iwona
On:3/17/2025 4:11:13 PM
Inst Id :WC CONDUCTANCE

Analytical Summary Report

Analysis Method: SM2510 B
Parameter: Conductance
Run Number: LB135057

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

Reagent/Standard	Lot/Log #
conductivity standard	WP111962

Seq	Lab ID	True Value (mg/L)	Dilution	Temperature °C	Reading (umho/cm)	Result (umho/cm)	Anal Date	Anal Time
1	LB135057BL		1	22.5	0.83	0.87	03/13/2025	13:00
2	LB135057BS	1413	1	22.7	1347.00	1408.89	03/13/2025	13:05
3	Q1505-07		1	22.8	322.00	336.12	03/13/2025	13:10
4	Q1505-07DUP		1	22.7	320.00	334.70	03/13/2025	13:15

Note : Conductivity result is corrected to 25°C

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

WORKLIST(Hardcopy Internal Chain)

L3135057

WorkList Name : CONDUCTANCE PT-031 **WorkList ID :** 188258 **Department :** Wet-Chemistry **Date :** 03-13-2025 11:37:50

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1505-07	PT-COND-WP	Water	Conductance	Cool 4 deg C	ALLI03	QA Of	03/03/2025	SM2510 B

Date/Time 03.13.2025, 11:45

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:3/17/2025 4:11:13 PM
Inst Id :WC
CONDUCTANCE

Reviewed By:Iwona
On:3/17/2025 4:11:01 PM
Inst Id :WC CONDUCTANCE

Analytical Summary Report

Analysis Method: 120.1
Parameter: Conductance
Run Number: LB135058

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

Reagent/Standard	Lot/Log #
conductivity standard	WP111962

Seq	Lab ID	True Value (mg/L)	Dilution	Temperature °C	Reading (umho/cm)	Result (umho/cm)	Anal Date	Anal Time
1	LB135058BL		1	22.5	0.83	0.87	03/13/2025	13:00
2	LB135058BS	1413	1	22.7	1347.00	1408.89	03/13/2025	13:05
3	Q1505-08		1	22.8	322.00	336.12	03/13/2025	13:10
4	Q1505-08DUP		1	22.7	320.00	334.70	03/13/2025	13:15

Note : Conductivity result is corrected to 25°C

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

WORKLIST(Hardcopy Internal Chain)

LB135058

WorkList Name : CONDUCTANCE PT -03 **WorkList ID :** 188259 **Department :** Wet-Chemistry **Date :** 03-13-2025 11:37:53

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1505-08	PT-COND-WP	Water	Conductance	Cool 4 deg C	ALLI03	QA Of	03/03/2025	120.1

Date/Time 03.13.2025 11:45

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:3/17/2025 4:11:01 PM
Inst Id :WC
CONDUCTANCE

Reviewed By:Iwona
On:3/18/2025 1:46:19 PM
Inst Id :Konelab 20
LB :LB135060

LB135060

Test results | Aquakem 7.2AQ1 | Page: 1

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

3/17/2025 15:56 | Reviewed by : RM | Instrument ID : Konelab

Test: Phenolics-

Sample Id	Result	Dil. 1 +	Response	Errors
ICV1	0.983	0.0	0.100	
ICB1	-0.034	0.0	0.004	
CCV1	0.992	0.0	0.101	
CCB1	-0.031	0.0	0.005	
PB167174BL	-0.032	0.0	0.004	
PB167174BS	0.991	0.0	0.101	
Q1505-26	1.272	0.0	0.127	
CCV2	0.999	0.0	0.101	
CCB2	-0.032	0.0	0.004	

N	9
Mean	0.567
SD	0.5760
CV%	101.50

Reviewed By:Iwona
On:3/18/2025 1:46:19 PM
Inst Id :Konelab 20
LB :LB135060

Aquakem v. 7.2AQ1
Results from time period:
Mon Mar 17 14:07:03 2025
Mon Mar 17 15:33:28 2025

Sample Id	Sam/Ctr/cA	Test short r	Test type	Result	Result unit	Result date and time	Stat
0.00PPM	A	Phenolics-	P	-0.0164	mg/l	3/17/2025 14:07:03	
0.05PPM	A	Phenolics-	P	0.0529	mg/l	3/17/2025 14:07:04	
0.1PPM	A	Phenolics-	P	0.1017	mg/l	3/17/2025 14:07:05	
0.25PPM	A	Phenolics-	P	0.2593	mg/l	3/17/2025 14:07:06	
0.50PPM	A	Phenolics-	P	0.5081	mg/l	3/17/2025 14:07:07	
1.0PPM	A	Phenolics-	P	0.9956	mg/l	3/17/2025 14:07:08	
2.0PPM	A	Phenolics-	P	1.9989	mg/l	3/17/2025 14:07:09	
ICV1	S	Phenolics-	P	0.9832	mg/l	3/17/2025 15:23:15	
ICB1	S	Phenolics-	P	-0.0338	mg/l	3/17/2025 15:23:18	
CCV1	S	Phenolics-	P	0.9917	mg/l	3/17/2025 15:23:20	
CCB1	S	Phenolics-	P	-0.0312	mg/l	3/17/2025 15:23:21	
PB167174BL	S	Phenolics-	P	-0.0323	mg/l	3/17/2025 15:23:23	
PB167174BS	S	Phenolics-	P	0.9906	mg/l	3/17/2025 15:23:25	
Q1505-26	S	Phenolics-	P	1.272	mg/l	3/17/2025 15:33:20	
CCV2	S	Phenolics-	P	0.9991	mg/l	3/17/2025 15:33:26	
CCB2	S	Phenolics-	P	-0.0322	mg/l	3/17/2025 15:33:27	

Reviewed By:Iwona
On:3/18/2025 1:46:19 PM
Inst Id :Konelab 20
LB :LB135060

Calibration results Aquakem 7.2AQ1 Page: 1

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

Reviewed by : RM Instrument ID : Konelab

3/17/2025 14:09

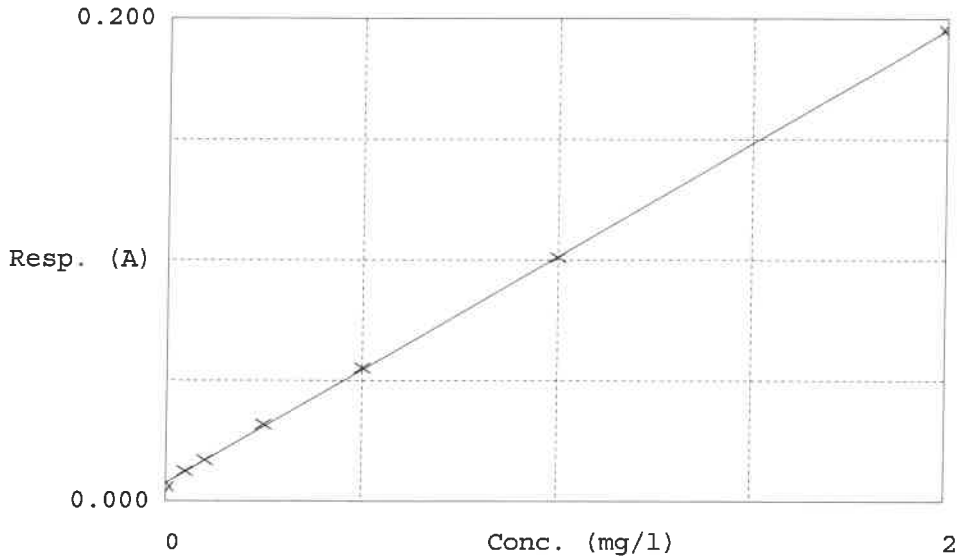
Test Phenolics-

Accepted 3/17/2025 14:09

Factor 10.64
Bias 0.007

Coeff. of det. 0.999856

Errors



	Calibrator	Response	Calc. con.	Conc.	Errors
1	0.00PPM	0.006	-0.0164	0.0000	
2	Phenol-2	0.012	0.0529	0.0500	5.8
3	Phenol-2	0.017	0.1017	0.1000	1.7
4	Phenol-2	0.032	0.2593	0.2500	3.7
5	Phenol-2	0.055	0.5081	0.5000	1.6
6	Phenol-2	0.101	0.9956	1.0000	-0.4
7	Phenol-2	0.195	1.9989	2.0000	-0.1

03/17/2025
RM

Reviewed By:Iwona
On:3/18/2025 1:46:25 PM
Inst Id :Konelab 20
LB :LB135061

LB1

Test results

Aquakem 7.2AQ1

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

Reviewed by : RM

3/17/2025 16:35

Instrument ID : Konelab

Test: Phenolics-

Sample Id	Result	Dil. 1 +	Response	Errors
ICV1	0.992	0.0	0.101	
ICB1	-0.035	0.0	0.004	
CCV1	0.993	0.0	0.101	
CCB1	-0.035	0.0	0.004	
PB167175BL	-0.034	0.0	0.004	
PB167175BS	0.994	0.0	0.101	
Q1505-25	1.270	0.0	0.127	
CCV2	1.002	0.0	0.102	
CCB2	-0.033	0.0	0.004	

N	9
Mean	0.568
SD	0.5781
CV%	101.75

Reviewed By:Iwona
On:3/18/2025 1:46:25 PM
Inst Id :Konelab 20
LB :LB135061

Aquakem v. 7.2AQ1
Results from time period:
Mon Mar 17 16:22:24 2025
Mon Mar 17 16:30:15 2025

Sample Id	Sam/Ctr/cA	Test short r	Test type	Result	Result unit	Result date and time	Stat
0.00PPM	A	Phenolics-	P	-0.0164	mg/l	3/17/2025 14:07:03	
0.05PPM	A	Phenolics-	P	0.0529	mg/l	3/17/2025 14:07:04	
0.1PPM	A	Phenolics-	P	0.1017	mg/l	3/17/2025 14:07:05	
0.25PPM	A	Phenolics-	P	0.2593	mg/l	3/17/2025 14:07:06	
0.50PPM	A	Phenolics-	P	0.5081	mg/l	3/17/2025 14:07:07	
1.0PPM	A	Phenolics-	P	0.9956	mg/l	3/17/2025 14:07:08	
2.0PPM	A	Phenolics-	P	1.9989	mg/l	3/17/2025 14:07:09	
ICV1	S	Phenolics-	P	0.9918	mg/l	3/17/2025 16:22:24	
ICB1	S	Phenolics-	P	-0.0353	mg/l	3/17/2025 16:22:26	
CCV1	S	Phenolics-	P	0.9926	mg/l	3/17/2025 16:22:29	
CCB1	S	Phenolics-	P	-0.0346	mg/l	3/17/2025 16:22:30	
PB167175BL	S	Phenolics-	P	-0.0338	mg/l	3/17/2025 16:22:32	
PB167175BS	S	Phenolics-	P	0.9938	mg/l	3/17/2025 16:22:35	
Q1505-25	S	Phenolics-	P	1.27	mg/l	3/17/2025 16:30:07	
CCV2	S	Phenolics-	P	1.0024	mg/l	3/17/2025 16:30:12	
CCB2	S	Phenolics-	P	-0.0334	mg/l	3/17/2025 16:30:14	

Reviewed By:Iwona
On:3/18/2025 1:46:25 PM
Inst Id :Konelab 20
LB :LB135061

Calibration results Aquakem 7.2AQ1

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

Reviewed by : RM Instrument ID : Konelab

3/17/2025 14:09

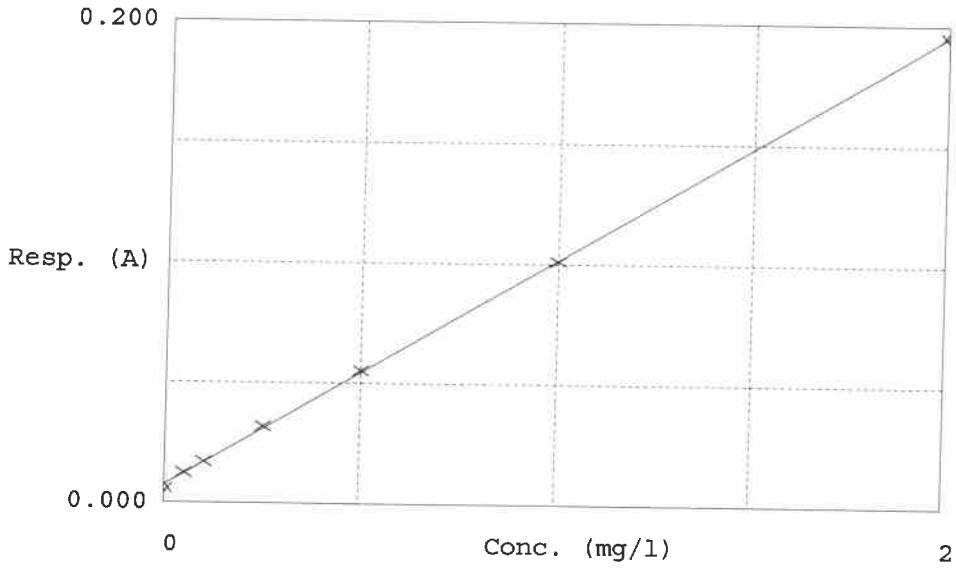
Test Phenolics-

Accepted 3/17/2025 14:09

Factor 10.64
Bias 0.007

Coeff. of det. 0.999856

Errors



	Calibrator	Response	Calc. con.	Conc.	Errors
1	0.00PPM	0.006	-0.0164	0.0000	-
2	Phenol-2	0.012	0.0529	0.0500	5.8
3	Phenol-2	0.017	0.1017	0.1000	1.7
4	Phenol-2	0.032	0.2593	0.2500	3.7
5	Phenol-2	0.055	0.5081	0.5000	1.6
6	Phenol-2	0.101	0.9956	1.0000	-0.4
7	Phenol-2	0.195	1.9989	2.0000	-0.1

03/17/2025
RM

Reviewed By:Iwona
On:3/19/2025 9:31:24 AM
Inst Id :Titroline Alpha Titrator

TitriSoft Report

Ident	Amount	DateTime	Alkalinity	Final pH (sample)	Initial pH (sample)	slope	offset
LB135065BLW	100	~~18/03/2025~~ 09:30	0.00	3.87	3.91	102.5	6.86
LB135065BSW	100	18/03/2025 09:35	44.96	4.40	8.70	102.5	6.86
Q1505-05	50	18/03/2025 09:40	344.44	4.46	8.32	102.5	6.86
Q1525-01	50	18/03/2025 09:45	153.62	4.46	7.68	102.5	6.86
Q1525-01DUP	50	~~18/03/2025~~ 09:50	153.68	4.45	7.68	102.5	6.86

03/18/2025

03.18.2025

NF

Reviewed By:Iwona
On:3/19/2025 9:30:57 AM
Inst Id :Konelab 20
LB :LB135072

LBL

Test results — Aquakem 7.2AQ1 —

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

3/18/2025 12:55 — Reviewed by : NF — Instrument ID : Konelab

Test: Total CN

Sample Id	Result	Dil. 1 +	Response	Errors
ICV1	93.153	0.0	0.084	
ICB1	0.235	0.0	0.001	
CCV1	248.994	0.0	0.222	
CCB1	0.376	0.0	0.001	
PB167191BL	0.409	0.0	0.001	
PB167191BS	95.295	0.0	0.086	
LOWPB167191	9.196	0.0	0.009	91% (90 - 110) NF
HIGHPB167191	486.588	0.0	0.433	97%
Q1505-23	221.407	0.0	0.198	03·18·2025
CCV2	243.761	0.0	0.218	
CCB2	-0.026	0.0	0.001	

N	11
Mean	127.217
SD	157.1699
CV%	123.54

Reviewed By:Iwona
On:3/19/2025 9:30:57 AM
Inst Id :Konelab 20
LB :LB135072

Aquakem v. 7.2AQ1
Results from time period:
Tue Mar 18 10:40:40 2025
Tue Mar 18 12:32:49 2025

Sample Id	Sam/C	Test short r	Test type	Result	Result unit	Result date and time	Stat
0.0PPBCN	A	Total CN	P	0.855	µg/l	3/18/2025 10:40:40	
5.0PPBCN	A	Total CN	P	4.8385	µg/l	3/18/2025 10:40:41	
10PPBCN	A	Total CN	P	9.7414	µg/l	3/18/2025 10:40:42	
50PPBCN	A	Total CN	P	49.5236	µg/l	3/18/2025 10:40:43	
100PPBCN	A	Total CN	P	97.9849	µg/l	3/18/2025 10:40:44	
250PPBCN	A	Total CN	P	253.1983	µg/l	3/18/2025 10:40:45	
500PPBCN	A	Total CN	P	498.8583	µg/l	3/18/2025 10:40:46	
ICV1	S	Total CN	P	93.1527	µg/l	3/18/2025 12:21:51	
ICB1	S	Total CN	P	0.2346	µg/l	3/18/2025 12:21:53	
CCV1	S	Total CN	P	248.9936	µg/l	3/18/2025 12:21:55	
CCB1	S	Total CN	P	0.3762	µg/l	3/18/2025 12:21:57	
PB167191BL	S	Total CN	P	0.4091	µg/l	3/18/2025 12:21:59	
PB167191BS	S	Total CN	P	95.2954	µg/l	3/18/2025 12:22:00	
LOWPB167191	S	Total CN	P	9.1963	µg/l	3/18/2025 12:29:27	
HIGHPB167191	S	Total CN	P	486.5878	µg/l	3/18/2025 12:29:28	
Q1505-23	S	Total CN	P	221.4072	µg/l	3/18/2025 12:29:33	
CCV2	S	Total CN	P	243.7608	µg/l	3/18/2025 12:29:34	
CCB2	S	Total CN	P	-0.0264	µg/l	3/18/2025 12:32:48	

Reviewed By:Iwona
On:3/19/2025 9:30:57 AM
Inst Id :Konelab 20
LB :LB135072

Calibration results — Aquakem 7.2AQ1 — Page: 1

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

Reviewed by : NF — Instrument ID : Konelab

3/18/2025 10:41

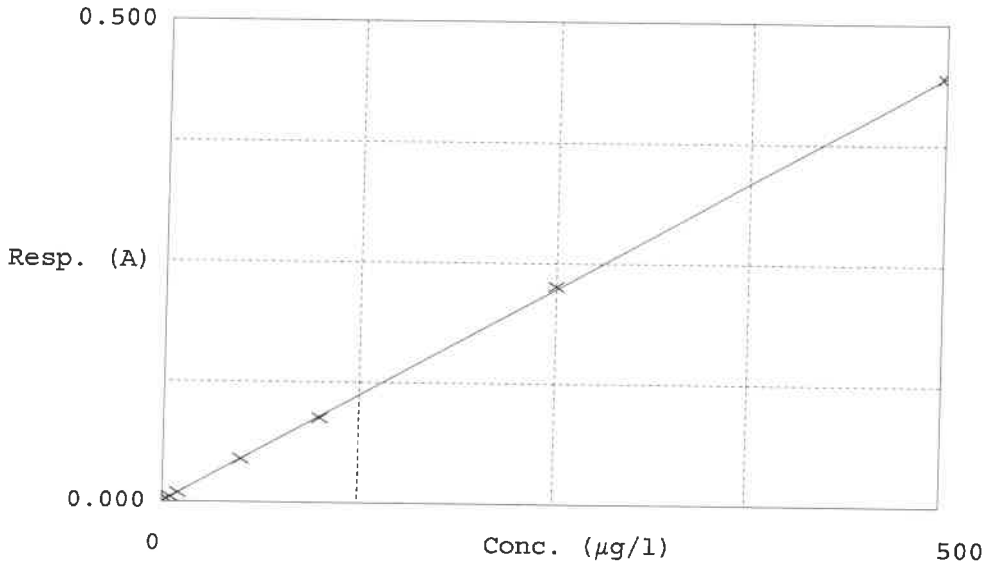
Test Total CN

Accepted 3/18/2025 10:41

Factor 1125
Bias 0.001

Coeff. of det. 0.999919

Errors



	Calibrator	Response	Calc. con.	Conc.	Errors (Re)
1	0.0PPBCN	0.002	0.8550	0.0000	
2	5.0PPBCN	0.005	4.8385	5.0000	-3.2
3	10PPBCN	0.009	9.7414	10.0000	-2.6
4	50PPBCN	0.045	49.5236	50.0000	-1.0
5	100PPBCN	0.088	97.9849	100.0000	-2.0
6	250PPBCN	0.226	253.1983	250.0000	1.3
7	500PPBCN	0.444	498.8583	500.0000	-0.2

NF
03.18.2025

Reviewed By:Iwona
On:3/19/2025 9:31:07 AM
Inst Id :Konelab 20
LB :LB135073

LB1

Test results

Aquakem 7.2AQ1

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

3/18/2025 13:43

Reviewed by : NF

Instrument ID : Konelab

Test: Total CN

Sample Id	Result	Dil. 1 +	Response	Errors
ICV1	93.468	0.0	0.084	
ICB1	0.207	0.0	0.001	
CCV1	248.450	0.0	0.222	
CCB1	0.203	0.0	0.001	
PB167195BL	0.404	0.0	0.001	
PB167195BS	95.514	0.0	0.086	
Q1505-24	220.107	0.0	0.197	
CCV2	238.795	0.0	0.213	
CCB2	0.023	0.0	0.001	

N	9
Mean	99.686
SD	109.3287
CV%	109.67

Reviewed By:Iwona
On:3/19/2025 9:31:07 AM
Inst Id :Konelab 20
LB :LB135073

Aquakem v. 7.2AQ1
Results from time period:
Tue Mar 18 10:40:40 2025
Tue Mar 18 13:35:49 2025

Sample Id	Sam/Ctr/cA	Test short r	Test type	Result	Result unit	Result date and time	Stat
0.0PPBCN	A	Total CN	P	0.855	µg/l	3/18/2025 10:40:40	
5.0PPBCN	A	Total CN	P	4.8385	µg/l	3/18/2025 10:40:41	
10PPBCN	A	Total CN	P	9.7414	µg/l	3/18/2025 10:40:42	
50PPBCN	A	Total CN	P	49.5236	µg/l	3/18/2025 10:40:43	
100PPBCN	A	Total CN	P	97.9849	µg/l	3/18/2025 10:40:44	
250PPBCN	A	Total CN	P	253.1983	µg/l	3/18/2025 10:40:45	
500PPBCN	A	Total CN	P	498.8583	µg/l	3/18/2025 10:40:46	
ICV1	S	Total CN	P	93.468	µg/l	3/18/2025 13:24:51	
ICB1	S	Total CN	P	0.2065	µg/l	3/18/2025 13:24:53	
CCV1	S	Total CN	P	248.4497	µg/l	3/18/2025 13:24:55	
CCB1	S	Total CN	P	0.2031	µg/l	3/18/2025 13:24:57	
PB167195BL	S	Total CN	P	0.4037	µg/l	3/18/2025 13:24:58	
PB167195BS	S	Total CN	P	95.5143	µg/l	3/18/2025 13:25:00	
Q1505-24	S	Total CN	P	220.1074	µg/l	3/18/2025 13:32:32	
CCV2	S	Total CN	P	238.7954	µg/l	3/18/2025 13:32:34	
CCB2	S	Total CN	P	0.023	µg/l	3/18/2025 13:35:48	

Reviewed By:Iwona
On:3/19/2025 9:31:07 AM
Inst Id :Konelab 20
LB :LB135073

Calibration results Aquakem 7.2AQ1

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

3/18/2025 10:41 Reviewed by : NF Instrument ID : Konelab

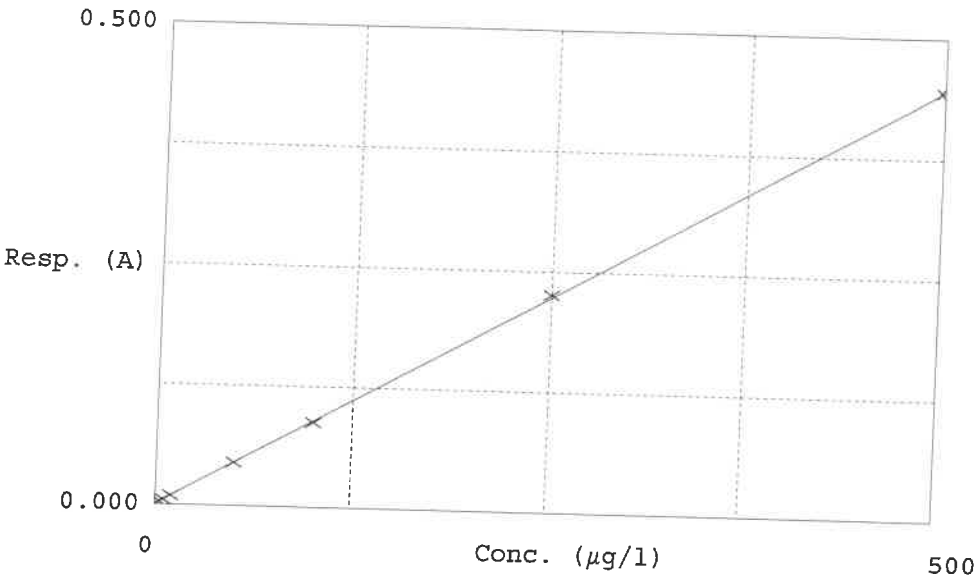
Test Total CN

Accepted 3/18/2025 10:41

Factor 1125
Bias 0.001

Coeff. of det. 0.999919

Errors



	Calibrator	Response	Calc. con.	Conc.	Re Errors
1	0.0PPBCN	0.002	0.8550	0.0000	
2	5.0PPBCN	0.005	4.8385	5.0000	-3.2
3	10PPBCN	0.009	9.7414	10.0000	-2.6
4	50PPBCN	0.045	49.5236	50.0000	-1.0
5	100PPBCN	0.088	97.9849	100.0000	-2.0
6	250PPBCN	0.226	253.1983	250.0000	1.3
7	500PPBCN	0.444	498.8583	500.0000	-0.2

NF
03.18.2025

Reviewed By:Iwona
On:3/19/2025 9:31:14 AM
Inst Id :Konelab 20
LB :LB135075

Test results | Aquakem 7.2AQ1 | Page:

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

3/18/2025 14:39 | Reviewed by : NF | Instrument ID : Konelab

Test: Total CN

Sample Id	Result	Dil. 1 +	Response	Errors
ICV1	92.052	0.0	0.083	
ICB1	-0.416	0.0	0.000	
CCV1	241.790	0.0	0.216	
CCB1	-0.413	0.0	0.000	
RL CHECK	4.050	0.0	0.004	81 % (50 - 150) NF 03.18.2025
PB167192BL	-0.786	0.0	0.000	
PB167192BS	92.888	0.0	0.083	
MIDPB167192	240.044	0.0	0.214	96 % (90 - 110) NF 03.18.2025
Q1505-22	217.023	0.0	0.194	
Q1583-01	0.468	0.0	0.001	
Q1583-01DUP	-0.682	0.0	0.000	
Q1583-01MS	35.804	0.0	0.033	
Q1583-01MSD	35.597	0.0	0.032	
CCV2	246.497	0.0	0.220	
CCB2	-0.603	0.0	0.000	

N	15
Mean	80.221
SD	102.4981
CV%	127.77

Reviewed By:Iwona
On:3/19/2025 9:31:14 AM
Inst Id :Konelab 20
LB :LB135075

Aquakem v. 7.2AQ1
Results from time period:
Tue Mar 18 10:40:40 2025
Tue Mar 18 14:33:21 2025

Sample Id	Sam/Ctr/cA	Test short r	Test type	Result	Result unit	Result date and time	Stat
0.0PPBCN	A	Total CN	P	0.855	µg/l	3/18/2025 10:40:40	
5.0PPBCN	A	Total CN	P	4.8385	µg/l	3/18/2025 10:40:41	
10PPBCN	A	Total CN	P	9.7414	µg/l	3/18/2025 10:40:42	
50PPBCN	A	Total CN	P	49.5236	µg/l	3/18/2025 10:40:43	
100PPBCN	A	Total CN	P	97.9849	µg/l	3/18/2025 10:40:44	
250PPBCN	A	Total CN	P	253.1983	µg/l	3/18/2025 10:40:45	
500PPBCN	A	Total CN	P	498.8583	µg/l	3/18/2025 10:40:46	
ICV1	S	Total CN	P	92.052	µg/l	3/18/2025 14:14:22	
ICB1	S	Total CN	P	-0.4165	µg/l	3/18/2025 14:14:23	
CCV1	S	Total CN	P	241.79	µg/l	3/18/2025 14:14:26	
CCB1	S	Total CN	P	-0.413	µg/l	3/18/2025 14:14:27	
RL CHECK	S	Total CN	P	4.0497	µg/l	3/18/2025 14:14:30	
PB167192BL	S	Total CN	P	-0.786	µg/l	3/18/2025 14:21:53	
PB167192BS	S	Total CN	P	92.8883	µg/l	3/18/2025 14:21:54	
MIDPB167192	S	Total CN	P	240.0438	µg/l	3/18/2025 14:21:56	
Q1505-22	S	Total CN	P	217.0235	µg/l	3/18/2025 14:22:00	
Q1583-01	S	Total CN	P	0.468	µg/l	3/18/2025 14:22:02	
Q1583-01DUP	S	Total CN	P	-0.6818	µg/l	3/18/2025 14:29:29	
Q1583-01MS	S	Total CN	P	35.804	µg/l	3/18/2025 14:29:31	
Q1583-01MSD	S	Total CN	P	35.5969	µg/l	3/18/2025 14:29:32	
CCV2	S	Total CN	P	246.4974	µg/l	3/18/2025 14:33:19	
CCB2	S	Total CN	P	-0.6031	µg/l	3/18/2025 14:33:20	

Reviewed By:Iwona
On:3/19/2025 9:31:14 AM
Inst Id :Konelab 20
LB :LB135075

Calibration results — Aquakem 7.2AQ1 —

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

3/18/2025 10:41 — Reviewed by : NF — Instrument ID : Konelab

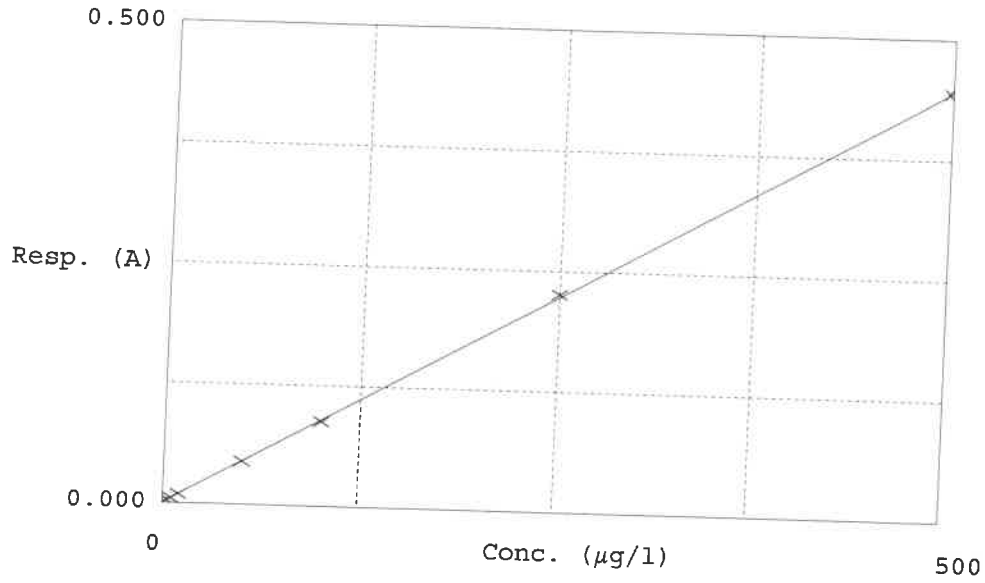
Test Total CN

Accepted 3/18/2025 10:41

Factor 1125
Bias 0.001

Coeff. of det. 0.999919

Errors



	Calibrator	Response	Calc. con.	Conc.	Errors
1	0.0PPBCN	0.002	0.8550	0.0000	
2	5.0PPBCN	0.005	4.8385	5.0000	-3.2
3	10PPBCN	0.009	9.7414	10.0000	-2.6
4	50PPBCN	0.045	49.5236	50.0000	-1.0
5	100PPBCN	0.088	97.9849	100.0000	-2.0
6	250PPBCN	0.226	253.1983	250.0000	1.3
7	500PPBCN	0.444	498.8583	500.0000	-0.2

Re

NF
03.18.2025

Reviewed By:Iwona
On:3/21/2025 3:04:39 PM
Inst Id :Appolo-9000
LB :LB135085

Sample Results Report Print Date/Time: 2025/03/21 11:16:19

Sample ID	Result	Std. Dev.	RSD	Mode	ALT
CCV1	10.2006	0.8207	8.05	TOC	
CCB1	0.3952	0.0936	23.69	TOC	
LB135085BLW	0.3545	0.0400	11.28	TOC	
LB135085BSW.....	10.4561...	0.7237..	6.92...	TOC	..
Q1505-04	64.4397	0.9821	1.52	TOC	
Q1505-04DLX5	10.5483	0.7272	6.89	TOC	
Q1588-01.....	10.4061...	0.5638..	5.42...	TOC	..
Q1588-01MS	22.4886	1.2426	5.53	TOC	
Q1588-01MSD	21.5763	1.7222	7.98	TOC	
Q1604-02.....	20.7987...	0.3736..	1.80...	TOC	..
Q1604-02DLX2	10.5121	0.8697	8.27	TOC	
CCV2	10.8063	0.4185	3.87	TOC	
CCB2.....	0.4039...	0.0359..	8.90...	TOC	..

Reviewed By:Iwona
On:3/21/2025 3:04:39 PM
Inst Id :Appolo-9000
LB :LB135085

Sample Results Report Print Date/Time: 2025/03/21 11:16:19

Method ID	Sample Type	Vial	Timestamp	Message
TOC 0 - 20 ppmC	Sample	11	2025/03/19 09:40	
TOC 0 - 20 ppmC	Sample	12	2025/03/19 10:03	Low Sample Detected
TOC 0 - 20 ppmC	Sample	13	2025/03/19 10:27	Low Sample Detected
TOC 0 - 20 ppmC	Sample	14	2025/03/19 10:52	
TOC 0 - 20 ppmC	Sample	15	2025/03/19 11:24	
TOC 0 - 20 ppmC	Sample	16	2025/03/19 11:49	
TOC 0 - 20 ppmC	Sample	17	2025/03/19 12:15	
TOC 0 - 20 ppmC	Sample	19	2025/03/19 13:07	
TOC 0 - 20 ppmC	Sample	19	2025/03/19 13:33	
TOC 0 - 20 ppmC	Sample	20	2025/03/19 14:00	
TOC 0 - 20 ppmC	Sample	21	2025/03/19 14:28	
TOC 0 - 20 ppmC	Sample	11	2025/03/19 14:59	
TOC 0 - 20 ppmC	Sample	12	2025/03/19 15:22	Low Sample Detected

Reviewed By:Iwona
On:3/21/2025 3:04:39 PM
Inst Id :Appolo-9000
LB :LB135085

Detailed Analysis Report Print Date/Time: 2025/03/21 11:16:34

Sample ID: CCV1 Mode: TOC
Method: TOC 0 - 20 ppmC Filename: 03190916
Cal. Curve: TOC WATER 0-20PPM Timestamp: 2025/03/19 09:40
Operator ID: NF IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	9.8982	4.9491	246315	-2.500	-2.301	135
2	9.4671	4.7336	235588	-2.520	-2.324	135
3	10.0646	5.0323	250457	-2.552	-2.354	142
4	11.3723	5.6861	282997	-2.550	-2.352	139

<<<Statistics>>> Mean: 10.2006 Std Dev: 0.8207 RSD: 8.05

Sample ID: CCB1 Mode: TOC
Method: TOC 0 - 20 ppmC Filename: 03190916
Cal. Curve: TOC WATER 0-20PPM Timestamp: 2025/03/19 10:03
Operator ID: NF IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	0.3452	0.1726	8591	-2.662	-2.666	120
2	0.3468	0.1734	8631	-2.678	-2.666	120
3	0.3531	0.1765	8786	-2.696	-2.672	120
4	0.5355	0.2678	13327	-2.729	-2.658	120

Last Message: Low Sample Detected
<<<Statistics>>> Mean: 0.3952 Std Dev: 0.0936 RSD: 23.69

Sample ID: LB135085BLW Mode: TOC
Method: TOC 0 - 20 ppmC Filename: 03190916
Cal. Curve: TOC WATER 0-20PPM Timestamp: 2025/03/19 10:27
Operator ID: NF IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	0.3376	0.1688	8401	-2.715	-2.673	120
2	0.4046	0.2023	10068	-2.708	-2.637	120
3	0.3110	0.1555	7738	-2.670	-2.643	120
4	0.3648	0.1824	9077	-2.636	-2.592	120

Last Message: Low Sample Detected
<<<Statistics>>> Mean: 0.3545 Std Dev: 0.0400 RSD: 11.28

Sample ID: LB135085BSW Mode: TOC
Method: TOC 0 - 20 ppmC Filename: 03190916
Cal. Curve: TOC WATER 0-20PPM Timestamp: 2025/03/19 10:52
Operator ID: NF IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	11.5042	5.7521	286280	-2.468	-2.270	145
2	10.3636	5.1818	257898	-2.381	-2.183	136
3	9.9162	4.9581	246762	-2.399	-2.200	151
4	10.0404	5.0202	249854	-2.391	-2.192	135

<<<Statistics>>> Mean: 10.4561 Std Dev: 0.7237 RSD: 6.92

Reviewed By:Iwona
On:3/21/2025 3:04:39 PM
Inst Id :Appolo-9000
LB :LB135085

Sample ID: Q1505-04 Mode: TOC
Method: TOC 0 - 20 ppmC Filename: 03190916
Cal. Curve: TOC WATER 0-20PPM Timestamp: 2025/03/19 11:24
Operator ID: NF IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	64.7246	32.3623	1610664	-1.992	-1.792	241
2	65.5632	32.7816	1631532	-2.069	-1.871	246
3	63.2072	31.6036	1572904	-2.138	-1.939	249
4	64.2636	32.1318	1599191	-2.148	-1.949	272

<<<Statistics>>> Mean: 64.4397 Std Dev: 0.9821 RSD: 1.52

Sample ID: Q1505-04DLX5 Mode: TOC
Method: TOC 0 - 20 ppmC Filename: 03190916
Cal. Curve: TOC WATER 0-20PPM Timestamp: 2025/03/19 11:49
Operator ID: NF IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	11.6041	5.8020	288765	-2.309	-2.110	144
2	10.3489	5.1744	257530	-2.270	-2.070	138
3	9.9393	4.9696	247337	-2.264	-2.064	138
4	10.3011	5.1506	256343	-2.300	-2.102	139

<<<Statistics>>> Mean: 10.5483 Std Dev: 0.7272 RSD: 6.89

Sample ID: Q1588-01 Mode: TOC
Method: TOC 0 - 20 ppmC Filename: 03190916
Cal. Curve: TOC WATER 0-20PPM Timestamp: 2025/03/19 12:15
Operator ID: NF IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	10.5596	5.2798	262775	-2.232	-2.032	155
2	11.1297	5.5649	276962	-2.203	-2.004	154
3	10.0719	5.0360	250638	-2.222	-2.023	145
4	9.8633	4.9316	245446	-2.224	-2.027	144

<<<Statistics>>> Mean: 10.4061 Std Dev: 0.5638 RSD: 5.42

Sample ID: Q1588-01MS Mode: TOC
Method: TOC 0 - 20 ppmC Filename: 03190916
Cal. Curve: TOC WATER 0-20PPM Timestamp: 2025/03/19 13:07
Operator ID: NF IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	24.2312	12.1156	602990	-2.519	-2.321	162
2	22.3285	11.1642	555642	-2.503	-2.305	155
3	21.2989	10.6494	530019	-2.485	-2.286	146
4	22.0957	11.0479	549849	-2.554	-2.356	153

<<<Statistics>>> Mean: 22.4886 Std Dev: 1.2426 RSD: 5.53

Sample ID: Q1588-01MSD Mode: TOC
Method: TOC 0 - 20 ppmC Filename: 03190916
Cal. Curve: TOC WATER 0-20PPM Timestamp: 2025/03/19 13:33

Reviewed By:Iwona
On:3/21/2025 3:04:39 PM
Inst Id :Appolo-9000
LB :LB135085

Operator ID: NF IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	23.5126	11.7563	585108	-2.614	-2.415	152
2	21.9281	10.9641	545679	-2.617	-2.419	168
3	19.3351	9.6676	481152	-2.641	-2.443	156
4	21.5292	10.7646	535751	-2.652	-2.454	154

<<<Statistics>>> Mean: 21.5763 Std Dev: 1.7222 RSD: 7.98

Sample ID: Q1604-02 Mode: TOC
Method: TOC 0 - 20 ppmC Filename: 03190916
Cal. Curve: TOC WATER 0-20PPM Timestamp: 2025/03/19 14:00
Operator ID: NF IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	20.6210	10.3105	513152	-2.647	-2.450	170
2	21.3576	10.6788	531481	-2.650	-2.451	177
3	20.5747	10.2873	511998	-2.662	-2.464	177
4	20.6416	10.3208	513664	-2.654	-2.457	166

<<<Statistics>>> Mean: 20.7987 Std Dev: 0.3736 RSD: 1.80

Sample ID: Q1604-02DLX2 Mode: TOC
Method: TOC 0 - 20 ppmC Filename: 03191404
Cal. Curve: TOC W
ATER 0-20PPM Timestamp: 2025/03/19 14:28
Operator ID: NF IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	10.9440	5.4720	272341	-2.757	-2.557	151
2	11.2605	5.6303	280216	-2.697	-2.498	143
3	10.5646	5.2823	262897	-2.711	-2.511	141
4	9.2793	4.6397	230915	-2.707	-2.508	138

<<<Statistics>>> Mean: 10.5121 Std Dev: 0.8697 RSD: 8.27

Sample ID: CCV2 Mode: TOC
Method: TOC 0 - 20 ppmC Filename: 03191435
Cal. Curve: TOC WATER 0-20PPM Timestamp: 2025/03/19 14:59
Operator ID: NF IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	10.4586	5.2293	260262	-2.776	-2.577	150
2	11.2908	5.6454	280970	-2.731	-2.531	135
3	10.4546	5.2273	260160	-2.765	-2.565	136
4	11.0211	5.5106	274260	-2.773	-2.575	134

<<<Statistics>>> Mean: 10.8063 Std Dev: 0.4185 RSD: 3.87

Sample ID: CCB2 Mode: TOC
Method: TOC 0 - 20 ppmC Filename: 03191435
Cal. Curve: TOC WATER 0-20PPM Timestamp: 2025/03/19 15:22
Operator ID: NF IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning	Ending	Integration

Reviewed By:Iwona
On:3/21/2025 3:04:39 PM
Inst Id :Appolo-9000
LB :LB135085

				Baseline	Baseline	Time
1	0.4328	0.2164	10770	-2.765	-2.567	107
2	0.4223	0.2112	10510	-2.764	-2.564	104
3	0.3521	0.1761	8763	-2.750	-2.718	120
4	0.4083	0.2041	10160	-2.774	-2.575	104

Last Message: Low Sample Detected
<<<Statistics>>> Mean: 0.4039 Std Dev: 0.0359 RSD: 8.90

Reviewed By:Iwona
On:3/21/2025 3:04:39 PM
Inst Id :Appolo-9000
LB :LB135085

Sample Results Report Print Date/Time: 2025/03/13 8:20:31

Sample ID	Result	Std. Dev.	RSD	Mode	ALT
0.0PPM	16902	1043	6.17	TOC	
0.5PPM	22431	848	3.78	TOC	
1.0PPM	35488	2369	6.68	TOC	
2.0PPM.....	56030...	2771..	4.95...	TOC	..
5.0PPM	124169	9253	7.45	TOC	
10.0PPM	250507	21350	8.52	TOC	
20.0PPM.....	511831...	21170..	4.14...	TOC	..
ICV1	9.6914	0.5262	5.43	TOC	
ICB1	0.3230	0.0567	17.57	TOC	
IC-20.....	0.3045...	0.0895..	29.40...	TOC	..
IC-R	0.2809	0.1146	40.79	TOC	

Reviewed By:Iwona
On:3/21/2025 3:04:39 PM
Inst Id :Appolo-9000
LB :LB135085

Sample Results Report Print Date/Time: 2025/03/13 8:20:31

Method ID	Sample Type	Vial	Timestamp	Message
TOC 0 - 20 ppmC	TOC Standard	1	2025/03/11 10:00	
TOC 0 - 20 ppmC	TOC Standard	2	2025/03/11 10:23	
TOC 0 - 20 ppmC	TOC Standard	3	2025/03/11 10:46	
TOC 0 - 20 ppmC	...TOC Standard ..	4..	2025/03/11 11:10 ..	
TOC 0 - 20 ppmC	TOC Standard	5	2025/03/11 11:33	
TOC 0 - 20 ppmC	TOC Standard	6	2025/03/11 11:58	
TOC 0 - 20 ppmC	...TOC Standard ..	7..	2025/03/11 12:24 ..	
TOC 0 - 20 ppmC	Sample	11	2025/03/11 12:48	
TOC 0 - 20 ppmC	Sample	12	2025/03/11 13:11	
TOC 0 - 20 ppmC	...Sample ..	13..	2025/03/11 13:34 ..	..Low Sample Detected
TOC 0 - 20 ppmC	Sample	12	2025/03/11 13:58	Low Sample Detected

Reviewed By:Iwona
On:3/21/2025 3:04:39 PM
Inst Id :Appolo-9000
LB :LB135085

Detailed Analysis Report Print Date/Time: 2025/03/13 8:20:57

Sample ID: 0.0PPM Mode: TOC
Method: TOC 0 - 20 ppmC Filename: 03110916
Cal. Curve: TOC WATER 0-20PPM Timestamp: 2025/03/11 10:00
Operator ID: NF IZ Sample Type: TOC Standard

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1			15770	-3.724	-3.530	107
2			18047	-3.735	-3.537	106
3			16317	-3.758	-3.559	105
4			17473	-3.776	-3.578	107

<<<Statistics>>> Mean: 16902 Std Dev: 1043 RSD: 6.17

Sample ID: 0.5PPM Mode: TOC
Method: TOC 0 - 20 ppmC Filename: 03110916
Cal. Curve: TOC WATER 0-20PPM Timestamp: 2025/03/11 10:23
Operator ID: NF IZ Sample Type: TOC Standard

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1			22389	-3.756	-3.558	109
2			22818	-3.762	-3.564	109
3			21272	-3.773	-3.574	108
4			23246	-3.780	-3.581	110

<<<Statistics>>> Mean: 22431 Std Dev: 848 RSD: 3.78

Sample ID: 1.0PPM Mode: TOC
Method: TOC 0 - 20 ppmC Filename: 03110916
Cal. Curve: TOC WATER 0-20PPM Timestamp: 2025/03/11 10:46
Operator ID: NF IZ Sample Type: TOC Standard

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1			36075	-3.662	-3.463	113
2			38546	-3.636	-3.439	115
3			34162	-3.590	-3.392	112
4			33168	-3.564	-3.365	112

<<<Statistics>>> Mean: 35488 Std Dev: 2369 RSD: 6.68

Sample ID: 2.0PPM Mode: TOC
Method: TOC 0 - 20 ppmC Filename: 03110916
Cal. Curve: TOC WATER 0-20PPM Timestamp: 2025/03/11 11:10
Operator ID: NF IZ Sample Type: TOC Standard

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1			58874	-3.458	-3.264	116
2			53245	-3.407	-3.209	112
3			54103	-3.449	-3.251	113
4			57896	-3.472	-3.273	115

<<<Statistics>>> Mean: 56030 Std Dev: 2771 RSD: 4.95

Sample ID: 5.0PPM Mode: TOC

Reviewed By:Iwona
On:3/21/2025 3:04:39 PM
Inst Id :Appolo-9000
LB :LB135085

Method: TOC 0 - 20 ppmC Filename: 03110916
Cal. Curve: TOC WATER 0-20PPM Timestamp: 2025/03/11 11:33
Operator ID: NF IZ Sample Type: TOC Standard

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1			137395	-3.425	-3.226	123
2			123655	-3.347	-3.150	123
3			118482	-3.370	-3.171	122
4			117145	-3.355	-3.157	118

<<<Statistics>>> Mean: 124169 Std Dev: 9253 RSD: 7.45

Sample ID: 10.0PPM Mode: TOC
Method: TOC 0 - 20 ppmC Filename: 03110916
Cal. Curve: TOC WATER 0-20PPM Timestamp: 2025/03/11 11:58
Operator ID: NF IZ Sample Type: TOC Standard

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1			272996	-3.363	-3.164	129
2			264433	-3.320	-3.124	126
3			233826	-3.342	-3.144	135
4			230772	-3.324	-3.125	127

<<<Statistics>>> Mean: 250507 Std Dev: 21350 RSD: 8.52

Sample ID: 20.0PPM Mode: TOC
Method: TOC 0 - 20 ppmC Filename: 03110916
Cal. Curve: TOC WATER 0-20PPM Timestamp: 2025/03/11 12:24
Operator ID: NF IZ Sample Type: TOC Standard

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1			539658	-3.342	-3.142	175
2			516595	-3.311	-3.112	162
3			492673	-3.250	-3.050	148
4			498398	-3.256	-3.057	160

<<<Statistics>>> Mean: 511831 Std Dev: 21170 RSD: 4.14

Sample ID: ICV1 Mode: TOC
Method: TOC 0 - 20 ppmC Filename: 03110916
Cal. Curve: TOC WATER 0-20PPM Timestamp: 2025/03/11 12:48
Operator ID: NF IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	10.4159	5.2080	259199	-3.312	-3.113	143
2	9.5215	4.7608	236942	-3.230	-3.032	126
3	9.6620	4.8310	240437	-3.252	-3.055	126
4	9.1661	4.5831	228098	-3.243	-3.044	127

<<<Statistics>>> Mean: 9.6914 Std Dev: 0.5262 RSD: 5.43

Sample ID: ICB1 Mode: TOC
Method: TOC 0 - 20 ppmC Filename: 03110916
Cal. Curve: TOC WATER 0-20PPM Timestamp: 2025/03/11 13:11
Operator ID: NF IZ Sample Type: Sample

Reviewed By:Iwona
On:3/21/2025 3:04:39 PM
Inst Id :Appolo-9000
LB :LB135085

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	0.2799	0.1400	6965	-3.282	-3.085	98
2	0.3410	0.1705	8485	-3.301	-3.101	99
3	0.3954	0.1977	9840	-3.301	-3.105	99
4	0.2757	0.1379	6861	-3.301	-3.101	98

<<<Statistics>>> Mean: 0.3230 Std Dev: 0.0567 RSD: 17.57

Sample ID: IC-20 Mode: TOC
Method: TOC 0 - 20 ppmC Filename: 03110916
Cal. Curve: TOC WATER 0-20PPM Timestamp: 2025/03/11 13:34
Operator ID: NF IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	0.2725	0.1363	6781	-3.248	-3.251	120
2	0.1962	0.0981	4883	-3.227	-3.255	120
3	0.4015	0.2008	9992	-3.264	-3.267	120
4	0.3478	0.1739	8656	-3.271	-3.262	120

Last Message: Low Sample Detected
<<<Statistics>>> Mean: 0.3045 Std Dev: 0.0895 RSD: 29.40

Sample ID: IC-R Mode: TOC
Method: TOC 0 - 20 ppmC Filename: 03110916
Cal. Curve:
TOC WATER 0-20PPM Timestamp: 2025/03/11 13:58
Operator ID: NF IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	0.2726	0.1363	6785	-3.205	-3.239	120
2	0.3188	0.1594	7934	-3.235	-3.235	120
3	0.4030	0.2015	10028	-3.238	-3.218	120
4	0.1293	0.0647	3219	-3.153	-3.181	120

Last Message: Low Sample Detected
<<<Statistics>>> Mean: 0.2809 Std Dev: 0.1146 RSD: 40.79

Reviewed By:Iwona
On:3/21/2025 3:04:39 PM
Inst Id :Appolo-9000
LB :LB135085

Calibration Report Print Date/Time: 2025/03/11 12:24:53

Cal. Curve ID: TOC WATER 0-20PPM
Created: 2025/03/11 12:24
Calibration Factor (m): 4.977e+04
Y Intercept (b): 8470
r-squared: 0.99880

Standard ID	Y Raw Data	X Expected ug C	Measured ug C	Re Message	Date & Time
0.0PPM	16902	0.000	0.169		2025/03/11 10:00
0.5PPM	22431	0.250	0.281	12.4	2025/03/11 10:23
1.0PPM	35488	0.500	0.543	9.6	2025/03/11 10:46
2.0PPM	56030	1.000	0.956	-4.4	2025/03/11 11:10
5.0PPM	124169	2.500	2.325	-7.0	2025/03/11 11:33
10.0PPM	250507	5.000	4.863	-2.7	2025/03/11 11:58
20.0PPM	511831	10.000	10.114	1.1	2025/03/11 12:24

NF

03.11.2025

WORKLIST(Hardcopy Internal Chain)

LB135085

WorkList Name : TOC W-03192025 **WorkList ID :** 188371 **Department :** Wet-Chemistry **Date :** 03-19-2025 09:23:06

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1505-04	PT-DEM-WP	Water	TOC	Conc H2SO4 to pH < 2	ALLI03	QA Of	03/03/2025	9060A
Q1588-01	TAPFTA-MW01D-031425-00-T1	Water	TOC	Conc H2SO4 to pH < 2	WEST04	I41	03/14/2025	9060A

Date/Time 03/19/25 09:50
Raw Sample Received by: NF(WC)
Raw Sample Relinquished by: [illegible]

Date/Time 03/19/25 16:10
Raw Sample Received by: [illegible]
Raw Sample Relinquished by: NF(WC)

Reviewed By:Iwona On:3/21/2025 3:04:39 PM Inst Id :Appolo-9000 LB :LB135085

WORKLIST(Hardcopy Internal Chain)

LB135085

WorkList Name : TOC W - 03192025 **WorkList ID :** 188386 **Department :** Wet-Chemistry **Date :** 03-19-2025 13:35:22

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1604-02	FRAC-TANK-N45878	Water	TOC	Conc H2SO4 to pH < 2	PSEG03	I41	03/19/2025	9060A

Date/Time 03/19/25 13:45
Raw Sample Received by: NF(WC)
Raw Sample Relinquished by: 12(WC)

Date/Time 03/19/25 16:10
Raw Sample Received by: 12(WC)
Raw Sample Relinquished by: NF(WC)

Reviewed By:Iwona
On:3/21/2025 3:04:39 PM
Inst Id :Appolo-9000
LB :LB135085

Reviewed By:Iwona
On:3/20/2025 12:27:37 PM
Inst Id :SPECTROPHOTOME

Analytical Summary Report

Analysis Method: SM4500 Cl G
ANALYST: Niha
Parameter: Residual Chlorine
SUPERVISOR REVIEW BY: Iwona
Run Number: LB135087

Reagent/Standard	Lot/Log #
Residual chlorine ICV-LCS, 0.4PPM	WP112352
Chlorine Calibration std, 0.1ppm	WP112347
Chlorine Calibration std, 0.2ppm	WP112348
Chlorine Calibration std, 0.8ppm	WP112349
Chlorine Calibration std, 0.0ppm	WP112346
Chlorine Calibration std, 1.6ppm	WP112350
Residual Chlorine Calibration and CCV std, 0	WP112351
Total Chlorine Powder Pillows	W3147

Intercept: 0.0014 **Slope:** 0.9327 **Regression:** 0.999572

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	0.00		03/19/2025	10:45
2	CAL2	0.1	1	0.000	0.090	0.090	0.10	-5	03/19/2025	10:48
3	CAL3	0.2	1	0.000	0.180	0.180	0.19	-4.5	03/19/2025	10:51
4	CAL4	0.4	1	0.000	0.370	0.370	0.40	-1.3	03/19/2025	10:54
5	CAL5	0.8	1	0.000	0.780	0.780	0.84	4.4	03/19/2025	10:57
6	CAL6	1.6	1	0.000	1.480	1.480	1.59	-0.9	03/19/2025	11:00

Reviewed By:Iwona
On:3/20/2025 12:27:37 PM
Inst Id :SPECTROPHOTOME

Analytical Summary Report

Analysis Method: SM4500 Cl G
ANALYST: Niha
Parameter: Residual Chlorine
SUPERVISOR REVIEW BY: Iwona
Run Number: LB135087

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	0.3800	0.3800	0.4100	03/19/2025	11:03
2	ICB				1	0.0000	0.0000	0.0000	-0.0080	03/19/2025	11:06
3	CCV1			0.4	1	0.0000	0.3800	0.3800	0.4100	03/19/2025	11:09
4	CCB1				1	0.0000	0.0000	0.0000	-0.0080	03/19/2025	11:12
5	LB135087BL	50	50		1	0.0000	0.0000	0.0000	-0.0080	03/19/2025	11:15
6	LB135087BS	50	50	0.4	1	0.0000	0.3900	0.3900	0.4210	03/19/2025	11:18
7	Q1505-19	50	50		1	0.0000	1.0800	1.0800	1.1560	03/19/2025	11:21
8	CCV2			0.4	1	0.0000	0.3600	0.3600	0.3880	03/19/2025	11:24
9	CCB2				1	0.0000	0.0000	0.0000	-0.0080	03/19/2025	11:27

LB135087

WORKLIST(Hardcopy Internal Chain)

WorkList Name : RESIDUAL CHLORINE F **WorkList ID :** 188369 **Department :** Wet-Chemistry **Date :** 03-19-2025 08:50:40

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1505-19	PT-CL-WP	Water	Residual Chlorine	Cool 4 deg C	ALLI03	QA Of	03/03/2025	SM4500 Cl G

Date/Time 03·19·2025 , 10:00

Raw Sample Received by: NF(WC)

Raw Sample Relinquished by: 12(WC)

Date/Time N A

Raw Sample Received by:

Raw Sample Relinquished by:

Reviewed By:Iwona
On:3/20/2025 12:27:37
PM
Inst Id
:SPECTROPHOTOME

Reviewed By:Iwona
On:3/19/2025 1:43:11 PM
Inst Id :Nessler Tubes
LB :LB135088

Analytical Summary Report

Analysis Method: SM2120 B
Reviewed By: Niha
Parameter: Color
Supervisor Review By: Iwona
Run Number: LB135088
pH Meter ID: PH METER-1

Reagent/Standard	Lot/Log #
Calibration std, 0 color unit	WP112116
Calibration std, 5 color unit	WP112117
Calibration std, 10 color unit	WP112118
Calibration std, 15 color unit	WP112119
Calibration std, 20 color unit	WP112120
Calibration std, 25 color unit	WP112121
Calibration std, 30 color unit	WP112122
Calibration std, 40 color unit	WP112123
Calibration std, 50 color unit	WP112124
Calibration std, 60 color unit	WP112125
Calibration std, 70 color unit	WP112126
Calibration std, 100 color unit	WP112127

Seq	LabID	ClientID	DL	pH Reading	pH Adjustment	Result (cu)	Anal Date	Anal Time
1	LB135088BL	LB135088BL	1	5.02	N/A	0.00	03/19/2025	09:30
2	Q1505-27	PT-COL-WP	1	1.27	N/A	40.00	03/19/2025	09:35

LB135088

WORKLIST(Hardcopy Internal Chain)

WorkList Name : COLOR PT-03132025 **WorkList ID :** 188243 **Department :** Wet-Chemistry **Date :** 03-13-2025 08:24:11

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1505-27	PT-COL-WP	Water	Color	Cool 4 deg C	ALLI03	QA Of	03/03/2025	SM2120 B

Date/Time 03.19.2025 , 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:Iwona
On:3/19/2025 1:43:11 PM
Inst Id :Nessler Tubes
LB :LB135088

Reviewed By:Iwona
On:3/20/2025 1:30:11 PM
Inst Id :SPECTROPHOTOME

Analytical Summary Report

Analysis Method: ~~SM3500-Cr B~~

Parameter: ~~Hexavalent Chromium~~

Run Number: ~~LB135094~~

ANALYST: rubina

SUPERVISOR REVIEW BY: Iwona

pH Meter ID: WC pH Meter-1

Reagent/Standard	Lot/Log #
Calibration Std. hexchrome 0.1 ppm	WP112367
Calibration Std. hexchrome 0.05 ppm	WP112366
calibration std. hexchrome 0.01 ppm	WP112364
calibration std. hexchrome 0 ppm	WP112363
hexavalent chromium color reagent	WP112371
0.2N SULFURIC ACID	WP111959
Calibration Std Hexachrome 0.025 ppm	WP112365
Hexavalent Chromium ICV-LCS Std	WP112370
Calibration and CCV std HexChrome 0.5PPM	WP112368
Calibration std HexChrome 1.0PPM	WP112369

Intercept: 0.0003 **Slope:** 0.7816 **Regression:** 0.999979

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		1.88	0.000	0.000	0.000	-0.00		03/19/2025	16:40
2	CAL2	0.01	1	100	100		1.82	0.000	0.008	0.008	0.009	-10	03/19/2025	16:41
3	CAL3	0.025	1	100	100		1.95	0.000	0.019	0.019	0.023	-8	03/19/2025	16:42
4	CAL4	0.05	1	100	100		1.90	0.000	0.038	0.038	0.048	-4	03/19/2025	16:43
5	CAL5	0.1	1	100	100		1.90	0.000	0.079	0.079	0.100	0	03/19/2025	16:44
6	CAL6	0.5	1	100	100		1.98	0.000	0.395	0.395	0.504	0.8	03/19/2025	16:45
7	CAL7	1	1	100	100		1.85	0.000	0.780	0.780	0.997	-0.3	03/19/2025	16:46

Reviewed By:Iwona
On:3/20/2025 1:30:11 PM
Inst Id :SPECTROPHOTOME

Analytical Summary Report

Analysis Method: SM3500-Cr B
ANALYST: rubina

Parameter: Hexavalent Chromium
SUPERVISOR REVIEW BY: Iwona

Run Number: LB135094
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		1.94	0.000	0.396	0.396	0.506	03/19/2025	16:47
2	ICB		1	100	100		1.82	0.000	0.000	0.000	0.000	03/19/2025	16:48
3	CCV1	0.5	1	100	100		1.88	0.000	0.392	0.392	0.501	03/19/2025	16:49
4	CCB1		1	100	100		1.75	0.000	0.000	0.000	0.000	03/19/2025	16:50
5	RL Check	0.01	1	100	100		1.90	0.000	0.009	0.009	0.011	03/19/2025	16:51
6	LB135094BL		1	100	100		1.92	0.000	0.000	0.000	0.000	03/19/2025	16:52
7	LB135094BS	0.5	1	100	100		1.99	0.000	0.406	0.406	0.519	03/19/2025	16:53
8	Q1505-02		1	100	100		2.01	0.000	0.421	0.421	0.538	03/19/2025	16:54
9	Q1604-02		1	100	100		2.19	0.000	0.000	0.000	0.000	03/19/2025	16:55
10	Q1604-02DU		1	100	100		2.25	0.000	0.000	0.000	0.000	03/19/2025	16:56
11	Q1604-02MS	1	2	100	100		2.27	0.000	0.377	0.377	0.482	03/19/2025	16:57
12	Q1604-02MS	1	2	100	100		2.20	0.000	0.373	0.373	0.477	03/19/2025	16:58
13	Q1606-11		1	100	100		2.10	0.000	0.000	0.000	0.000	03/19/2025	16:59
14	CCV2	0.5	1	100	100		2.10	0.000	0.402	0.402	0.514	03/19/2025	17:00
15	CCB2		1	100	100		1.98	0.000	0.000	0.000	0.000	03/19/2025	17:01

Reviewed By:Iwona
On:3/20/2025 2:30:24 PM
Inst Id :Konelab 20
LB :LB135095

LB135095

Test results | Aquakem 7.2AQ1 | Page: 1

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

Reviewed by : RM

3/19/2025 16:16 | Instrument ID : Konelab

Test: TKN-NH3

Sample Id	Result	Dil. 1 +	Response	Errors
ICV1	4.728	0.0	0.848	
ICB1	0.127	0.0	0.024	
CCV1	4.762	0.0	0.854	
CCB1	0.123	0.0	0.023	
RL CHECK	0.533	0.0	0.097	106% (50–150) 03/19/2025 RM
PB167190BL	0.117	0.0	0.022	
PB167190BS	4.837	0.0	0.868	
Q1505-13	10.065	0.0	1.805	Test limit high
CCV2	5.017	0.0	0.900	
CCB2	0.158	0.0	0.029	
Q1505-13DLX2	4.937	0.0	0.886	
CCV3	4.803	0.0	0.862	
CCB3	0.135	0.0	0.025	

N	13
Mean	3.103
SD	3.1295
CV%	100.85

Reviewed By:Iwona
On:3/20/2025 2:30:24 PM
Inst Id :Konelab 20
LB :LB135095

Aquakem v. 7.2AQ1
Results from time period:
Wed Mar 19 14:01:48 2025
Wed Mar 19 16:13:22 2025

Sample Id	Sam/Ctr/cA	Test short n	Test type	Result	Result unit	Result date and time	Stat
0.0PPM	A	TKN-NH3	P	0.1415	mg/l	3/19/2025 14:23:30	
0.5PPM	A	TKN-NH3	P	0.483	mg/l	3/19/2025 14:23:31	
1.0PPM	A	TKN-NH3	P	1.0385	mg/l	3/19/2025 14:23:32	
2.5PPM	A	TKN-NH3	P	2.3785	mg/l	3/19/2025 14:23:33	
5.0PPM	A	TKN-NH3	P	4.9175	mg/l	3/19/2025 14:23:34	
6.7PPM	A	TKN-NH3	P	6.5838	mg/l	3/19/2025 14:23:35	
10.0PPM	A	TKN-NH3	P	10.1239	mg/l	3/19/2025 14:23:36	
ICV1	S	TKN-NH3	P	4.7279	mg/l	3/19/2025 15:10:07	
ICB1	S	TKN-NH3	P	0.1271	mg/l	3/19/2025 15:10:08	
CCV1	S	TKN-NH3	P	4.7623	mg/l	3/19/2025 15:10:11	
CCB1	S	TKN-NH3	P	0.1227	mg/l	3/19/2025 15:10:13	
RL CHECK	S	TKN-NH3	P	0.533	mg/l	3/19/2025 15:10:15	
PB167190BL	S	TKN-NH3	P	0.1171	mg/l	3/19/2025 15:10:16	
PB167190BS	S	TKN-NH3	P	4.8366	mg/l	3/19/2025 15:20:51	
Q1505-13	S	TKN-NH3	P	10.0651	mg/l	3/19/2025 15:20:53	
CCV2	S	TKN-NH3	P	5.0167	mg/l	3/19/2025 15:37:01	
CCB2	S	TKN-NH3	P	0.1579	mg/l	3/19/2025 15:37:02	
Q1505-13DLX2	S	TKN-NH3	P	4.9371	mg/l	3/19/2025 16:13:12	
CCV3	S	TKN-NH3	P	4.8034	mg/l	3/19/2025 16:13:19	
CCB3	S	TKN-NH3	P	0.1352	mg/l	3/19/2025 16:13:22	

Reviewed By:Iwona
On:3/20/2025 2:30:24 PM
Inst Id :Konelab 20
LB :LB135095

Calibration results Aquakem 7.2AQ1

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

3/19/2025 14:38 Reviewed by : RM Instrument ID : Konelab

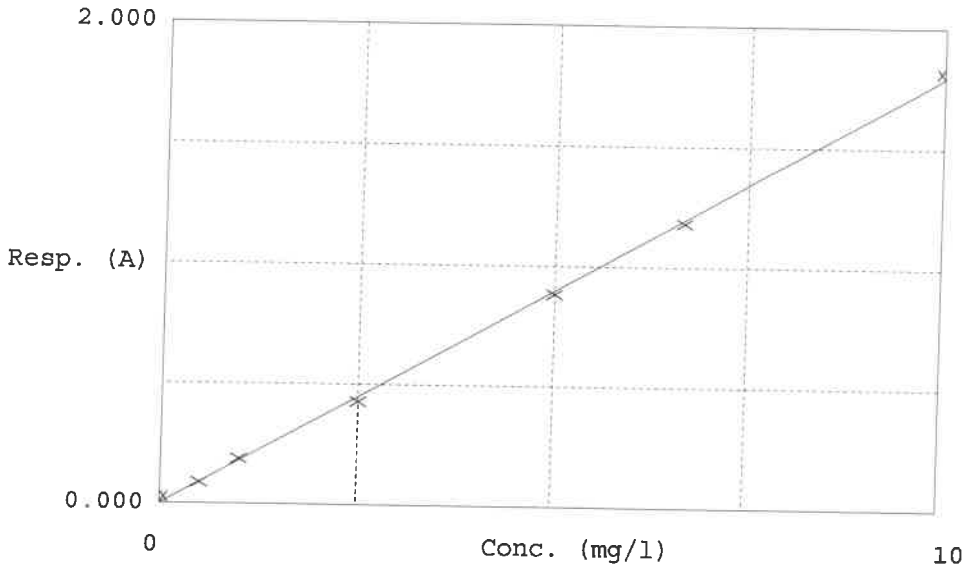
Test TKN-NH3

Accepted 3/19/2025 14:38

Factor 5.581
Bias 0.001

Coeff. of det. 0.999209

Errors



	Calibrator	Response	Calc. con.	Conc.	Errors
1	0.00PPM	0.027	0.1415	0.0000	
2	TKN-10	0.088	0.4830	0.5000	-3.4
3	TKN-10	0.187	1.0385	1.0000	3.9
4	TKN-10	0.427	2.3785	2.5000	-4.9
5	TKN-10	0.882	4.9175	5.0000	-1.6
6	TKN-10	1.181	6.5838	6.6667	-1.7
7	TKN-10	1.815	10.1239	10.0000	1.2

03/19/2025
RM

Alliance TECHNICAL GROUP

Analytical Summary Report

Analysis Method: SM4500 S EorF
Parameter: Sulfide
Run Number: LB135103

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	W3149

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	PB167199BL		1	50	50	5.00	0.00	4.92	4.92	0.08	0.00	0.00	03/20/2025	11:10
2	PB167199BS	25	1	50	50	5.00	0.00	2.24	2.24	2.76	2.68	21.44	03/20/2025	11:13
3	Q1505-28		1	50	50	5.00	0.00	3.68	3.68	1.32	1.24	9.92	03/20/2025	11:16

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: 9034
Parameter: Sulfide
Run Number: LB135104

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	W3149

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	PB167198BL		1	50	50	5.00	0.00	4.92	4.92	0.08	0.00	0.00	03/20/2025	11:20
2	PB167198BS	25	1	50	50	5.00	0.00	2.12	2.12	2.88	2.80	22.40	03/20/2025	11:23
3	Q1505-29		1	50	50	5.00	0.00	3.68	3.68	1.32	1.24	9.92	03/20/2025	11:26

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

Reviewed By:Iwona
On:3/21/2025 9:43:47 AM
Inst Id :SPECTROPHOTOME

Analytical Summary Report

Analysis Method: ~~7196A~~

Parameter: ~~Hexavalent Chromium~~

Run Number: ~~LB135113~~

ANALYST: rubina

SUPERVISOR REVIEW BY: Iwona

pH Meter ID: WC pH Meter-1

Reagent/Standard	Lot/Log #
Calibration Std. hexchrome 0.1 ppm	WP112379
Calibration Std. hexchrome 0.05 ppm	WP112378
calibration std. hexchrome 0.01 ppm	WP112376
calibration std. hexchrome 0 ppm	WP112375
hexavalent chromium color reagent	WP112371
5N sulfuric acid	WP110380
Calibration Std Hexachrome 0.025 ppm	WP112377
Hexavalent Chromium ICV-LCS Std	WP112382
Calibration and CCV std HexChrome 0.5PPM	WP112380
Calibration std HexChrome 1.0PPM	WP112381

Intercept: 0.0003 **Slope:** 0.7798 **Regression:** 0.999985

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		1.77	0.000	0.000	0.000	-0.00		03/20/2025	15:00
2	CAL2	0.01	1	100	100		1.88	0.000	0.007	0.007	0.008	-20	03/20/2025	15:01
3	CAL3	0.025	1	100	100		1.94	0.000	0.019	0.019	0.023	-8	03/20/2025	15:02
4	CAL4	0.05	1	100	100		2.01	0.000	0.038	0.038	0.048	-4	03/20/2025	15:03
5	CAL5	0.1	1	100	100		1.90	0.000	0.081	0.081	0.103	3	03/20/2025	15:04
6	CAL6	0.5	1	100	100		1.95	0.000	0.392	0.392	0.502	0.4	03/20/2025	15:05
7	CAL7	1	1	100	100		1.89	0.000	0.779	0.779	0.998	-0.2	03/20/2025	15:06

Reviewed By:Iwona
On:3/21/2025 9:43:47 AM
Inst Id :SPECTROPHOTOME

Analytical Summary Report

Analysis Method: 7196A
ANALYST: rubina
Parameter: Hexavalent Chromium
SUPERVISOR REVIEW BY: Iwona
Run Number: LB135113
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		1.88	0.000	0.388	0.388	0.497	03/20/2025	15:07
2	ICB		1	100	100		1.92	0.000	0.001	0.001	0.001	03/20/2025	15:08
3	CCV1	0.5	1	100	100		2.06	0.000	0.391	0.391	0.501	03/20/2025	15:09
4	CCB1		1	100	100		1.79	0.000	0.000	0.000	0.000	03/20/2025	15:10
5	RL Check	0.01	1	100	100		1.87	0.000	0.008	0.008	0.010	03/20/2025	15:11
6	LB135113BL		1	100	100		1.84	0.000	0.001	0.001	0.001	03/20/2025	15:12
7	LB135113BS	0.5	1	100	100		1.88	0.000	0.389	0.389	0.498	03/20/2025	15:13
8	Q1505-01		1	100	100		2.27	0.000	0.420	0.420	0.538	03/20/2025	15:14
9	Q1618-01		1	100	100		2.35	0.000	0.000	0.000	0.000	03/20/2025	15:15
10	Q1618-01DU		1	100	100		2.24	0.000	0.000	0.000	0.000	03/20/2025	15:16
11	Q1618-01MS	1	2	100	100		2.29	0.000	0.379	0.379	0.486	03/20/2025	15:17
12	Q1618-01MS	1	2	100	100		2.25	0.000	0.382	0.382	0.489	03/20/2025	15:18
13	Q1618-02		1	100	100		2.10	0.011	2.095	2.084	2.672	03/20/2025	15:19
14	Q1618-02		50	100	100		2.10	0.002	0.472	0.470	0.602	03/20/2025	15:20
15	CCV2	0.5	1	100	100		1.88	0.000	0.389	0.389	0.498	03/20/2025	15:21
16	CCB2		1	100	100		1.92	0.000	0.000	0.000	0.000	03/20/2025	15:22

Reviewed By:Iwona
On:3/21/2025 3:05:21 PM
Inst Id :Appolo-9000
LB :LB135125

Sample Results Report Print Date/Time: 2025/03/21 11:40:00

Sample ID	Result	Std. Dev.	RSD	Mode	ALT
CCV1	1.0059	0.0557	5.54	TOC	
CCB1	0.3952	0.0936	23.69	TOC	
LB135125BLW	0.3545	0.0400	11.28	TOC	
LB135125BSW.....	10.4561...	0.7237..	6.92...	TOC	..
Q1505-03	64.4397	0.9821	1.52	TOC	
Q1505-03DLX5	10.5483	0.7272	6.89	TOC	
CCV2.....	10.8063...	0.4185..	3.87...	TOC	..
CCB2	0.4039	0.0359	8.90	TOC	

Reviewed By:Iwona
On:3/21/2025 3:05:21 PM
Inst Id :Appolo-9000
LB :LB135125

Sample Results Report Print Date/Time: 2025/03/21 11:40:00

Method ID	Sample Type	Vial	Timestamp	Message
TOC 0 - 20 ppmC	Sample	10	2025/03/19 08:16	
TOC 0 - 20 ppmC	Sample	12	2025/03/19 10:03	Low Sample Detected
TOC 0 - 20 ppmC	Sample	13	2025/03/19 10:27	Low Sample Detected
TOC 0 - 20 ppmC	...Sample	.. 14..	2025/03/19 10:52	..
TOC 0 - 20 ppmC	Sample	15	2025/03/19 11:24	
TOC 0 - 20 ppmC	Sample	16	2025/03/19 11:49	
TOC 0 - 20 ppmC	...Sample	.. 11..	2025/03/19 14:59	..
TOC 0 - 20 ppmC	Sample	12	2025/03/19 15:22	Low Sample Detected

Reviewed By:Iwona
On:3/21/2025 3:05:21 PM
Inst Id :Appolo-9000
LB :LB135125

Detailed Analysis Report Print Date/Time: 2025/03/21 11:40:10

Sample ID: CCV1 Mode: TOC
Method: TOC 0 - 20 ppmC Filename: 03190732
Cal. Curve: TOC WATER 0-20PPM Timestamp: 2025/03/19 08:16
Operator ID: NF IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	0.9654	0.4827	24965	-1.442	-1.244	111
2	1.0178	0.5089	26320	-1.497	-1.301	110
3	1.0799	0.5400	27926	-1.578	-1.386	111
4	0.9606	0.4803	24840	-1.592	-1.396	111

<<<Statistics>>> Mean: 1.0059 Std Dev: 0.0557 RSD: 5.54

Sample ID: CCB1 Mode: TOC
Method: TOC 0 - 20 ppmC Filename: 03190916
Cal. Curve: TOC WATER 0-20PPM Timestamp: 2025/03/19 10:03
Operator ID: NF IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	0.3452	0.1726	8591	-2.662	-2.666	120
2	0.3468	0.1734	8631	-2.678	-2.666	120
3	0.3531	0.1765	8786	-2.696	-2.672	120
4	0.5355	0.2678	13327	-2.729	-2.658	120

Last Message: Low Sample Detected
<<<Statistics>>> Mean: 0.3952 Std Dev: 0.0936 RSD: 23.69

Sample ID: LB135125BLW Mode: TOC
Method: TOC 0 - 20 ppmC Filename: 03190916
Cal. Curve: TOC WATER 0-20PPM Timestamp: 2025/03/19 10:27
Operator ID: NF IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	0.3376	0.1688	8401	-2.715	-2.673	120
2	0.4046	0.2023	10068	-2.708	-2.637	120
3	0.3110	0.1555	7738	-2.670	-2.643	120
4	0.3648	0.1824	9077	-2.636	-2.592	120

Last Message: Low Sample Detected
<<<Statistics>>> Mean: 0.3545 Std Dev: 0.0400 RSD: 11.28

Sample ID: LB135125BSW Mode: TOC
Method: TOC 0 - 20 ppmC Filename: 03190916
Cal. Curve: TOC WATER 0-20PPM Timestamp: 2025/03/19 10:52
Operator ID: NF IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	11.5042	5.7521	286280	-2.468	-2.270	145
2	10.3636	5.1818	257898	-2.381	-2.183	136
3	9.9162	4.9581	246762	-2.399	-2.200	151
4	10.0404	5.0202	249854	-2.391	-2.192	135

<<<Statistics>>> Mean: 10.4561 Std Dev: 0.7237 RSD: 6.92

Reviewed By:Iwona
On:3/21/2025 3:05:21 PM
Inst Id :Appolo-9000
LB :LB135125

Sample ID: Q1505-03 Mode: TOC
Method: TOC 0 - 20 ppmC Filename: 03190916
Cal. Curve: TOC WATER 0-20PPM Timestamp: 2025/03/19 11:24
Operator ID: NF IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	64.7246	32.3623	1610664	-1.992	-1.792	241
2	65.5632	32.7816	1631532	-2.069	-1.871	246
3	63.2072	31.6036	1572904	-2.138	-1.939	249
4	64.2636	32.1318	1599191	-2.148	-1.949	272

<<<Statistics>>> Mean: 64.4397 Std Dev: 0.9821 RSD: 1.52

Sample ID: Q1505-03DLX5 Mode: TOC
Method: TOC 0 - 20 ppmC Filename: 03190916
Cal. Curve: TOC WATER 0-20PPM Timestamp: 2025/03/19 11:49
Operator ID: NF IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	11.6041	5.8020	288765	-2.309	-2.110	144
2	10.3489	5.1744	257530	-2.270	-2.070	138
3	9.9393	4.9696	247337	-2.264	-2.064	138
4	10.3011	5.1506	256343	-2.300	-2.102	139

<<<Statistics>>> Mean: 10.5483 Std Dev: 0.7272 RSD: 6.89

Sample ID: CCV2 Mode: TOC
Method: TOC 0 - 20 ppmC Filename: 03191435
Cal. Curve: TOC WATER 0-20PPM Timestamp: 2025/03/19 14:59
Operator ID: NF IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	10.4586	5.2293	260262	-2.776	-2.577	150
2	11.2908	5.6454	280970	-2.731	-2.531	135
3	10.4546	5.2273	260160	-2.765	-2.565	136
4	11.0211	5.5106	274260	-2.773	-2.575	134

<<<Statistics>>> Mean: 10.8063 Std Dev: 0.4185 RSD: 3.87

Sample ID: CCB2 Mode: TOC
Method: TOC 0 - 20 ppmC Filename: 03191435
Cal. Curve: TOC WATER 0-20PPM Timestamp: 2025/03/19 15:22
Operator ID: NF IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	0.4328	0.2164	10770	-2.765	-2.567	107
2	0.4223	0.2112	10510	-2.764	-2.564	104
3	0.3521	0.1761	8763	-2.750	-2.718	120
4	0.4083	0.2041	10160	-2.774	-2.575	104

Last Message: Low Sample Detected
<<<Statistics>>> Mean: 0.4039 Std Dev: 0.0359 RSD: 8.90

Reviewed By:Iwona
On:3/21/2025 3:05:21 PM
Inst Id :Appolo-9000
LB :LB135125

Sample Results Report Print Date/Time: 2025/03/13 8:20:31

Sample ID	Result	Std. Dev.	RSD	Mode	ALT
0.0PPM	16902	1043	6.17	TOC	
0.5PPM	22431	848	3.78	TOC	
1.0PPM	35488	2369	6.68	TOC	
2.0PPM.....	56030...	2771..	4.95...	TOC	..
5.0PPM	124169	9253	7.45	TOC	
10.0PPM	250507	21350	8.52	TOC	
20.0PPM.....	511831...	21170..	4.14...	TOC	..
ICV1	9.6914	0.5262	5.43	TOC	
ICB1	0.3230	0.0567	17.57	TOC	
IC-20.....	0.3045...	0.0895..	29.40...	TOC	..
IC-R	0.2809	0.1146	40.79	TOC	

Reviewed By:Iwona
On:3/21/2025 3:05:21 PM
Inst Id :Appolo-9000
LB :LB135125

Sample Results Report Print Date/Time: 2025/03/13 8:20:31

Method ID	Sample Type	Vial	Timestamp	Message
TOC 0 - 20 ppmC	TOC Standard	1	2025/03/11 10:00	
TOC 0 - 20 ppmC	TOC Standard	2	2025/03/11 10:23	
TOC 0 - 20 ppmC	TOC Standard	3	2025/03/11 10:46	
TOC 0 - 20 ppmC	...TOC Standard	.. 4	..2025/03/11 11:10	..
TOC 0 - 20 ppmC	TOC Standard	5	2025/03/11 11:33	
TOC 0 - 20 ppmC	TOC Standard	6	2025/03/11 11:58	
TOC 0 - 20 ppmC	...TOC Standard	.. 7	..2025/03/11 12:24	..
TOC 0 - 20 ppmC	Sample	11	2025/03/11 12:48	
TOC 0 - 20 ppmC	Sample	12	2025/03/11 13:11	
TOC 0 - 20 ppmC	...Sample	.. 13	..2025/03/11 13:34	..Low Sample Detected
TOC 0 - 20 ppmC	Sample	12	2025/03/11 13:58	Low Sample Detected

Reviewed By:Iwona
On:3/21/2025 3:05:21 PM
Inst Id :Appolo-9000
LB :LB135125

Detailed Analysis Report Print Date/Time: 2025/03/13 8:20:57

Sample ID: 0.0PPM Mode: TOC
Method: TOC 0 - 20 ppmC Filename: 03110916
Cal. Curve: TOC WATER 0-20PPM Timestamp: 2025/03/11 10:00
Operator ID: NF IZ Sample Type: TOC Standard

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1			15770	-3.724	-3.530	107
2			18047	-3.735	-3.537	106
3			16317	-3.758	-3.559	105
4			17473	-3.776	-3.578	107

<<<Statistics>>> Mean: 16902 Std Dev: 1043 RSD: 6.17

Sample ID: 0.5PPM Mode: TOC
Method: TOC 0 - 20 ppmC Filename: 03110916
Cal. Curve: TOC WATER 0-20PPM Timestamp: 2025/03/11 10:23
Operator ID: NF IZ Sample Type: TOC Standard

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1			22389	-3.756	-3.558	109
2			22818	-3.762	-3.564	109
3			21272	-3.773	-3.574	108
4			23246	-3.780	-3.581	110

<<<Statistics>>> Mean: 22431 Std Dev: 848 RSD: 3.78

Sample ID: 1.0PPM Mode: TOC
Method: TOC 0 - 20 ppmC Filename: 03110916
Cal. Curve: TOC WATER 0-20PPM Timestamp: 2025/03/11 10:46
Operator ID: NF IZ Sample Type: TOC Standard

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1			36075	-3.662	-3.463	113
2			38546	-3.636	-3.439	115
3			34162	-3.590	-3.392	112
4			33168	-3.564	-3.365	112

<<<Statistics>>> Mean: 35488 Std Dev: 2369 RSD: 6.68

Sample ID: 2.0PPM Mode: TOC
Method: TOC 0 - 20 ppmC Filename: 03110916
Cal. Curve: TOC WATER 0-20PPM Timestamp: 2025/03/11 11:10
Operator ID: NF IZ Sample Type: TOC Standard

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1			58874	-3.458	-3.264	116
2			53245	-3.407	-3.209	112
3			54103	-3.449	-3.251	113
4			57896	-3.472	-3.273	115

<<<Statistics>>> Mean: 56030 Std Dev: 2771 RSD: 4.95

Sample ID: 5.0PPM Mode: TOC

Reviewed By:Iwona
On:3/21/2025 3:05:21 PM
Inst Id :Appolo-9000
LB :LB135125

Method: TOC 0 - 20 ppmC
Cal. Curve: TOC WATER 0-20PPM
Operator ID: NF IZ
Filename: 03110916
Timestamp: 2025/03/11 11:33
Sample Type: TOC Standard

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1			137395	-3.425	-3.226	123
2			123655	-3.347	-3.150	123
3			118482	-3.370	-3.171	122
4			117145	-3.355	-3.157	118

<<<Statistics>>> Mean: 124169 Std Dev: 9253 RSD: 7.45

Sample ID: 10.0PPM
Method: TOC 0 - 20 ppmC
Cal. Curve: TOC WATER 0-20PPM
Operator ID: NF IZ
Mode: TOC
Filename: 03110916
Timestamp: 2025/03/11 11:58
Sample Type: TOC Standard

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1			272996	-3.363	-3.164	129
2			264433	-3.320	-3.124	126
3			233826	-3.342	-3.144	135
4			230772	-3.324	-3.125	127

<<<Statistics>>> Mean: 250507 Std Dev: 21350 RSD: 8.52

Sample ID: 20.0PPM
Method: TOC 0 - 20 ppmC
Cal. Curve: TOC WATER 0-20PPM
Operator ID: NF IZ
Mode: TOC
Filename: 03110916
Timestamp: 2025/03/11 12:24
Sample Type: TOC Standard

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1			539658	-3.342	-3.142	175
2			516595	-3.311	-3.112	162
3			492673	-3.250	-3.050	148
4			498398	-3.256	-3.057	160

<<<Statistics>>> Mean: 511831 Std Dev: 21170 RSD: 4.14

Sample ID: ICV1
Method: TOC 0 - 20 ppmC
Cal. Curve: TOC WATER 0-20PPM
Operator ID: NF IZ
Mode: TOC
Filename: 03110916
Timestamp: 2025/03/11 12:48
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	10.4159	5.2080	259199	-3.312	-3.113	143
2	9.5215	4.7608	236942	-3.230	-3.032	126
3	9.6620	4.8310	240437	-3.252	-3.055	126
4	9.1661	4.5831	228098	-3.243	-3.044	127

<<<Statistics>>> Mean: 9.6914 Std Dev: 0.5262 RSD: 5.43

Sample ID: ICB1
Method: TOC 0 - 20 ppmC
Cal. Curve: TOC WATER 0-20PPM
Operator ID: NF IZ
Mode: TOC
Filename: 03110916
Timestamp: 2025/03/11 13:11
Sample Type: Sample

Reviewed By:Iwona
On:3/21/2025 3:05:21 PM
Inst Id :Appolo-9000
LB :LB135125

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	0.2799	0.1400	6965	-3.282	-3.085	98
2	0.3410	0.1705	8485	-3.301	-3.101	99
3	0.3954	0.1977	9840	-3.301	-3.105	99
4	0.2757	0.1379	6861	-3.301	-3.101	98

<<<Statistics>>> Mean: 0.3230 Std Dev: 0.0567 RSD: 17.57

Sample ID: IC-20
Method: TOC 0 - 20 ppmC
Cal. Curve: TOC WATER 0-20PPM
Operator ID: NF IZ
Mode: TOC
Filename: 03110916
Timestamp: 2025/03/11 13:34
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	0.2725	0.1363	6781	-3.248	-3.251	120
2	0.1962	0.0981	4883	-3.227	-3.255	120
3	0.4015	0.2008	9992	-3.264	-3.267	120
4	0.3478	0.1739	8656	-3.271	-3.262	120

Last Message: Low Sample Detected
<<<Statistics>>> Mean: 0.3045 Std Dev: 0.0895 RSD: 29.40

Sample ID: IC-R
Method: TOC 0 - 20 ppmC
Cal. Curve:
TOC WATER 0-20PPM
Timestamp: 2025/03/11 13:58
Operator ID: NF IZ
Mode: TOC
Filename: 03110916
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	0.2726	0.1363	6785	-3.205	-3.239	120
2	0.3188	0.1594	7934	-3.235	-3.235	120
3	0.4030	0.2015	10028	-3.238	-3.218	120
4	0.1293	0.0647	3219	-3.153	-3.181	120

Last Message: Low Sample Detected
<<<Statistics>>> Mean: 0.2809 Std Dev: 0.1146 RSD: 40.79

Reviewed By:Iwona
On:3/21/2025 3:05:21 PM
Inst Id :Appolo-9000
LB :LB135125

Calibration Report Print Date/Time: 2025/03/11 12:24:53

Cal. Curve ID: TOC WATER 0-20PPM
Created: 2025/03/11 12:24
Calibration Factor (m): 4.977e+04
Y Intercept (b): 8470
r-squared: 0.99880

Standard ID	Y Raw Data	X Expected ug C	Measured ug C	Re Message	Date & Time
0.0PPM	16902	0.000	0.169		2025/03/11 10:00
0.5PPM	22431	0.250	0.281	12.4	2025/03/11 10:23
1.0PPM	35488	0.500	0.543	9.6	2025/03/11 10:46
2.0PPM	56030	1.000	0.956	-4.4	2025/03/11 11:10
5.0PPM	124169	2.500	2.325	-7.0	2025/03/11 11:33
10.0PPM	250507	5.000	4.863	-2.7	2025/03/11 11:58
20.0PPM	511831	10.000	10.114	1.1	2025/03/11 12:24

NF

03.11.2025

Reviewed By:jignesh
On:3/21/2025 3:00:34 PM
Inst Id :SPECTROPHOTOME

Analytical Summary Report

Analysis Method: SM5220 D
Parameter: COD
Run Number: LB135131

ANALYST: Iwona
SUPERVISOR REVIEW BY: jignesh

Reagent/Standard	Lot/Log #
COD ICV-LCS std, 50ppm	WP111522
COD calibration std. 100 ppm	WP111519
COD calibration std. 10 ppm	WP111517
COD calibration std. 150 ppm	WP111520
COD calibration std. 50 ppm	WP111518
COD calibration std. 0 ppm	WP111516
COD ICV-LCS std, 50ppm	WP112412
COD CCV std, 50ppm	WP112411
COD Digestion Vials Low Level 0-150Mg/L	W3127

Temp In(C): 148	**Date In:** 03/21/2025	**Time In:** 09:30
Temp Out(C): 150	**Date Out:** 03/21/2025	**Time Out:** 11:30

Intercept: 0.1675 **Slope:** 1.0102 **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	-0.166		01/22/2025	13:30
2	CAL2	10	1	Water	11.000	10.723	7.2	01/22/2025	13:30
3	CAL3	50	1	Water	50.000	49.329	-1.3	01/22/2025	13:31
4	CAL4	100	1	Water	101.000	99.814	-0.2	01/22/2025	13:31
5	CAL5	150	1	Water	152.000	150.299	0.2	01/22/2025	13:32

Reviewed By:jignesh
On:3/21/2025 3:00:34 PM
Inst Id :SPECTROPHOTOME

Analytical Summary Report

Analysis Method: SM5220 D
ANALYST: Iwona
Parameter: COD
SUPERVISOR REVIEW BY: jignesh
Run Number: LB135131

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	49.329	01/22/2025	13:32
2	ICB		NA	NA	1	Water	0.000	-0.166	01/22/2025	13:33
3	CCV1	50	NA	NA	1	Water	51.000	50.319	03/21/2025	13:40
4	CCB1		NA	NA	1	Water	1.000	0.824	03/21/2025	13:40
5	LB135131BL		NA	NA	1	Water	0.000	-0.166	03/21/2025	13:41
6	LB135131BS	50	NA	NA	1	Water	50.000	49.329	03/21/2025	13:41
7	Q1505-03		NA	NA	1	Water	140.000	138.421	03/21/2025	13:42
8	Q1604-02		NA	NA	1	Water	85.000	83.976	03/21/2025	13:42
9	Q1604-02DUP		NA	NA	1	Water	87.000	85.956	03/21/2025	13:43
10	Q1604-02MS	50	NA	NA	1	Water	127.000	125.552	03/21/2025	13:43
11	Q1604-02MSD	50	NA	NA	1	Water	126.000	124.562	03/21/2025	13:44
12	CCV2	50	NA	NA	1	Water	51.000	50.319	03/21/2025	13:44
13	CCB2		NA	NA	1	Water	0.000	-0.166	03/21/2025	13:45

LB135131

WORKLIST(Hardcopy Internal Chain)

WorkList Name : COD-03212025 **WorkList ID :** 188442 **Department :** Wet-Chemistry **Date :** 03-21-2025 08:59:03

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1505-03	PT-DEM-WP	Water	COD	Conc H2SO4 to pH < 2	ALLI03	QA Of	03/03/2025	SM5220 D
Q1604-02	FRAC-TANK-N45878	Water	COD	Conc H2SO4 to pH < 2	PSEG03	I41	03/19/2025	SM5220 D

Date/Time 03/21/25 9:05

Raw Sample Received by: IR(WI)

Raw Sample Relinquished by: IR(COC)

Date/Time 03/21/25 10:30

Raw Sample Received by: IR(COC)

Raw Sample Relinquished by: IR(WI)

Reviewed By:jignesh
On:3/21/2025 3:00:34 PM
Inst Id :SPECTROPHOTOME

Reviewed By:Iwona
On:4/17/2025 4:28:18 PM
Inst Id :WC TURBIDIMETER-1

Analytical Summary Report

Analysis Method: SM 4500-SO4E

Parameter: Sulfate

Run Number: ~~LB135191~~

ANALYST: Niha

SUPERVISOR REVIEW BY: Iwona

Reagent/Standard	Lot/Log #
sulfate CCV 20ppm	WP112482
sulfate ICV 20ppm	WP112483
Sulfate Buffer solution A	WP111691
Sulfate LCS std, 20ppm	WP112484
Sulfate Calibration std, 15ppm	WP112476
Sulfate Calibration std, 25ppm	WP112478
Sulfate Calibration std, 0ppm	WP112473
Sulfate Calibration std, 10ppm	WP112475
Sulfate Calibration std, 20ppm	WP112477
Sulfate Calibration std, 30ppm	WP112479
Sulfate Calibration std, 40ppm	WP112481
Sulfate Calibration std, 5ppm	WP112474
Sulfate Calibration std, 35ppm	WP112480

Intercept: -5.1132 **Slope:** 3.4116 **Regression:** 0.996083

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	0.179	0.220	0.041	1.511		03/26/2025	10:30
2	CAL2	5	1	Water	0.196	10.800	10.604	4.607	-7.9	03/26/2025	10:33
3	CAL3	10	1	Water	0.194	30.200	30.006	10.294	2.9	03/26/2025	10:36
4	CAL4	15	1	Water	0.200	46.200	46.000	14.982	-0.1	03/26/2025	10:39
5	CAL5	20	1	Water	0.204	59.600	59.396	18.909	-5.5	03/26/2025	10:42
6	CAL6	25	1	Water	0.206	74.100	73.894	23.158	-7.4	03/26/2025	10:45
7	CAL7	30	1	Water	0.220	93.800	93.580	28.929	-3.6	03/26/2025	10:48
8	CAL8	35	1	Water	0.222	118.000	117.778	36.022	2.9	03/26/2025	10:51
9	CAL9	40	1	Water	0.230	137.000	136.770	41.588	4	03/26/2025	10:54

Reviewed By:Iwona
On:4/17/2025 4:28:18 PM
Inst Id :WC TURBIDIMETER-1

Analytical Summary Report

Analysis Method: SM 4500-SO4E
ANALYST: Niha
Parameter: Sulfate
SUPERVISOR REVIEW BY: Iwona
Run Number: LB135191

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	0.250	60.400	60.150	19.130	03/26/2025	10:57
2	ICB				1	Water	0.210	0.224	0.014	1.503	03/26/2025	11:00
3	CCV1			20	1	Water	0.230	64.800	64.570	20.425	03/26/2025	11:03
4	CCB1				1	Water	0.214	0.244	0.030	1.508	03/26/2025	11:06
5	LB135191BL	50	50		1	Water	0.208	0.246	0.038	1.510	03/26/2025	11:09
6	LB135191BS	50	50	20	1	Water	0.204	60.900	60.696	19.290	03/26/2025	11:12
7	Q1505-05	50	50		1	Water	0.350	392.000	391.650	116.298	03/26/2025	11:15
8	Q1505-05				5	Water	0.312	58.200	57.888	18.467	03/26/2025	11:18
9	CCV2			20	1	Water	0.210	59.700	59.490	18.936	03/26/2025	11:21
10	CCB2				1	Water	0.218	0.240	0.022	1.505	03/26/2025	11:24

LB135191

WORKLIST(Hardcopy Internal Chain)

WorkList Name : SULFATE PT -03262025 **WorkList ID :** 188543 **Department :** Wet-Chemistry **Date :** 03-26-2025 08:32:46

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1505-05	PT-MIN1-WP	Water	Sulfate	Cool 4 deg C	ALLI03	QA Of	03/03/2025	SM 4500-SO4E

Date/Time 03.26.2025 , 09:15

Raw Sample Received by: NF(WC)

Raw Sample Relinquished by: 12(WC)

Date/Time NA

Raw Sample Received by:

Raw Sample Relinquished by:

Reviewed By:lwona
On:4/17/2025 4:28:18 PM
Inst Id :WC
TURBIDIMETER-1

Reviewed By:Iwona
On:3/26/2025 1:22:50 PM
Inst Id :WC TURBIDIMETER-1

Analytical Summary Report

Analysis Method: 9038

Parameter: Sulfate

Run Number: ~~LB135192~~

ANALYST: Niha

SUPERVISOR REVIEW BY: Iwona

Reagent/Standard	Lot/Log #
sulfate CCV 20ppm	WP112482
sulfate ICV 20ppm	WP112483
conditioning reagent	WP111386
Sulfate LCS std, 20ppm	WP112484
Sulfate Calibration std, 15ppm	WP112476
Sulfate Calibration std, 25ppm	WP112478
Sulfate Calibration std, 0ppm	WP112473
Sulfate Calibration std, 10ppm	WP112475
Sulfate Calibration std, 20ppm	WP112477
Sulfate Calibration std, 30ppm	WP112479
Sulfate Calibration std, 40ppm	WP112481
Sulfate Calibration std, 5ppm	WP112474
Sulfate Calibration std, 35ppm	WP112480

Intercept: -5.4909 **Slope:** 3.45 **Regression:** 0.995549

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	0.180	0.218	0.038	1.603		03/26/2025	11:35
2	CAL2	5	1	Water	0.192	10.700	10.508	4.637	-7.3	03/26/2025	11:38
3	CAL3	10	1	Water	0.194	29.800	29.606	10.173	1.7	03/26/2025	11:41
4	CAL4	15	1	Water	0.198	46.800	46.602	15.099	0.7	03/26/2025	11:44
5	CAL5	20	1	Water	0.202	59.400	59.198	18.75	-6.3	03/26/2025	11:47
6	CAL6	25	1	Water	0.208	74.300	74.092	23.068	-7.7	03/26/2025	11:50
7	CAL7	30	1	Water	0.218	94.200	93.982	28.833	-3.9	03/26/2025	11:53
8	CAL8	35	1	Water	0.220	120.000	119.780	36.31	3.7	03/26/2025	11:56
9	CAL9	40	1	Water	0.228	138.000	137.772	41.525	3.8	03/26/2025	11:59

Reviewed By:Iwona
On:3/26/2025 1:22:50 PM
Inst Id :WC TURBIDIMETER-1

Analytical Summary Report

Analysis Method: 9038 ANALYST: Niha

Parameter: Sulfate SUPERVISOR REVIEW BY: Iwona

Run Number: LB135192

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	0.248	61.400	61.152	19.317	03/26/2025	12:02
2	ICB				1	Water	0.210	0.228	0.018	1.597	03/26/2025	12:05
3	CCV1			20	1	Water	0.234	63.200	62.966	19.843	03/26/2025	12:08
4	CCB1				1	Water	0.216	0.248	0.032	1.601	03/26/2025	12:11
5	LB135192BL	50	50		1	Water	0.210	0.248	0.038	1.603	03/26/2025	12:14
6	LB135192BS	50	50	20	1	Water	0.206	61.800	61.594	19.445	03/26/2025	12:17
7	Q1505-06	50	50		1	Water	0.358	396.000	395.642	116.270	03/26/2025	12:20
8	Q1505-06				5	Water	0.310	56.200	55.890	17.792	03/26/2025	12:23
9	CCV2			20	1	Water	0.230	60.800	60.570	19.148	03/26/2025	12:26
10	CCB2				1	Water	0.220	0.242	0.022	1.598	03/26/2025	12:29

LB135192

WORKLIST(Hardcopy Internal Chain)

WorkList Name : SULFATE PT-03262025 **WorkList ID :** 188542 **Department :** Wet-Chemistry **Date :** 03-26-2025 08:32:40

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1505-06	PT-MIN1-WP	Water	Sulfate	Cool 4 deg C	ALLI03	QA Of	03/03/2025	9038

Date/Time 03.26.2025 , 09:15

Raw Sample Received by: NF (WC)

Raw Sample Relinquished by: 12 (WC)

Date/Time NA

Raw Sample Received by: "

Raw Sample Relinquished by: "

Reviewed By:Iwona
On:3/26/2025 1:22:50 PM
Inst Id :WC
TURBIDIMETER-1

Reviewed By:Iwona
On:3/27/2025 3:53:58 PM
Inst Id :WC TURBIDIMETER-1

Analytical Summary Report

Analysis Method: 180.1 ANALYST: Niha

Parameter: Turbidity SUPERVISOR REVIEW BY: Iwona

Run Number: LB135207

Reagent/Standard	Lot/Log #
Turbidity Calibration std, 0NTU	WP112522
Turbidity Calibration std, 20NTU	WP112519
Turbidity Calibration std, 40NTU	WP112518
Turbidity Calibration std, 1NTU	WP112521
Turbidity Calibration std, 5NTU	WP112520
10 NTU Standard 500 ml	W3116

Intercept: -0.0584 **Slope:** 0.9274 **Regression:** 0.9999

Seq	Lab ID	True Value (NTU)	Dilution	Reading	Result (mg/l)	%D	Anal Date	Anal Time
1	CAL1	0	1	0.142	0.22		03/27/2025	10:36
2	CAL2	1	1	1.010	1.15	15.2	03/27/2025	10:40
3	CAL3	5	1	4.320	4.72	-5.6	03/27/2025	10:44
4	CAL4	10	1	9.260	10.05	0.5	03/27/2025	10:48
5	CAL5	20	1	18.200	19.69	-1.6	03/27/2025	10:52
6	CAL6	40	1	37.200	40.18	0.4	03/27/2025	10:56

Reviewed By:Iwona
On:3/27/2025 3:53:58 PM
Inst Id :WC TURBIDIMETER-1

Analytical Summary Report

Analysis Method: 180.1
ANALYST: Niha
Parameter: Turbidity
SUPERVISOR REVIEW BY: Iwona
Run Number: LB135207

Seq	Lab ID	True Value (NTU)	Dilution	Reading	Result (NTU)	AnalDate	Anal Time
1	ICV	10	1	8.510	9.239	03/27/2025	11:00
2	ICB		1	0.144	0.218	03/27/2025	11:04
3	CCV1	10	1	8.800	9.552	03/27/2025	11:08
4	CCB1		1	0.142	0.216	03/27/2025	11:12
5	LB135207BL		1	0.140	0.214	03/27/2025	11:16
6	Q1505-34		1	20.400	22.060	03/27/2025	11:20
7	CCV2	10	1	8.750	9.498	03/27/2025	11:24
8	CCB2		1	0.148	0.223	03/27/2025	11:28

WORKLIST(Hardcopy Internal Chain)

LB135207

WorkList Name : TURBIDITY PT -0327202 **WorkList ID :** 188595 **Department :** Wet-Chemistry **Date :** 03-27-2025 10:08:03

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1505-34	PT-TURB-WP	Water	Turbidity	Cool 4 deg C	ALLI03	QA Of	03/03/2025	180.1

Date/Time 03.27.2025, 10:10

Raw Sample Received by: NF (wc)

Raw Sample Relinquished by: 12 (wc)

Date/Time NA

Raw Sample Received by: "

Raw Sample Relinquished by: "

Reviewed By:Iwona
On:3/27/2025 3:53:58 PM
Inst Id :WC
TURBIDIMETER-1

Reviewed By:Iwona
On:3/27/2025 3:53:41 PM
Inst Id :WC TURBIDIMETER-1

Analytical Summary Report

Analysis Method: SM2130 B
ANALYST: Niha
Parameter: Turbidity
SUPERVISOR REVIEW BY: Iwona
Run Number: LB135208

Reagent/Standard	Lot/Log #
Turbidity Calibration std, 0NTU	WP112522
Turbidity Calibration std, 20NTU	WP112519
Turbidity Calibration std, 40NTU	WP112518
Turbidity Calibration std, 1NTU	WP112521
Turbidity Calibration std, 5NTU	WP112520
10 NTU Standard 500 ml	W3116

Intercept: -0.0584 **Slope:** 0.9274 **Regression:** 0.9999

Seq	Lab ID	True Value (NTU)	Dilution	Reading	Result (mg/l)	%D	Anal Date	Anal Time
1	CAL1	0	1	0.142	0.22		03/27/2025	10:36
2	CAL2	1	1	1.010	1.15	15.2	03/27/2025	10:40
3	CAL3	5	1	4.320	4.72	-5.6	03/27/2025	10:44
4	CAL4	10	1	9.260	10.05	0.5	03/27/2025	10:48
5	CAL5	20	1	18.200	19.69	-1.6	03/27/2025	10:52
6	CAL6	40	1	37.200	40.18	0.4	03/27/2025	10:56

Reviewed By:Iwona
On:3/27/2025 3:53:41 PM
Inst Id :WC TURBIDIMETER-1

Analytical Summary Report

Analysis Method: SM2130 B
ANALYST: Niha
Parameter: Turbidity
SUPERVISOR REVIEW BY: Iwona
Run Number: LB135208

Seq	Lab ID	True Value (NTU)	Dilution	Reading	Result (NTU)	AnalDate	Anal Time
1	ICV	10	1	8.510	9.239	03/27/2025	11:00
2	ICB		1	0.144	0.218	03/27/2025	11:04
3	CCV1	10	1	8.800	9.552	03/27/2025	11:08
4	CCB1		1	0.142	0.216	03/27/2025	11:12
5	LB135208BL		1	0.140	0.214	03/27/2025	11:16
6	Q1505-33		1	20.400	22.060	03/27/2025	11:20
7	CCV2	10	1	8.750	9.498	03/27/2025	11:24
8	CCB2		1	0.148	0.223	03/27/2025	11:28

WORKLIST(Hardcopy Internal Chain)

LB 135208

WorkList Name : TURBIDITY PT-0327202 **WorkList ID :** 188594 **Department :** Wet-Chemistry **Date :** 03-27-2025 10:07:58

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1505-33	PT-TURB-WP	Water	Turbidity	Cool 4 deg C	ALLI03	QA Of	03/03/2025	SM2130 B

Date/Time 03.27.2025, 10:10

Raw Sample Received by: NF (WC)

Raw Sample Relinquished by: 12 (WC)

Date/Time NA

Raw Sample Received by: //

Raw Sample Relinquished by: //

Reviewed By:Iwona On:3/27/2025 3:53:41 PM Inst Id :WC TURBIDIMETER-1

TOTAL SUSPENDED SOLIDS - SM2540D

SUPERVISOR: Iwona
ANALYST: jignesh
Date: 04/07/2025
Run Number: LB135334
BalanceID: WC SC-6
OvenID: WC OVEN-1
FilterID: 17416528
ThermometerID: WET OVEN#1

TEMP1 IN:	104 °C	04/07/2025 14:00	**TEMP1 OUT:**	103 °C	04/07/2025 15:00
TEMP2 IN:	104 °C	04/07/2025 15:30	**TEMP2 OUT:**	103 °C	04/07/2025 16:30
TEMP3 IN:	104 °C	04/08/2025 11:00	**TEMP3 OUT:**	103 °C	04/08/2025 12:30
TEMP4 IN:	104 °C	04/08/2025 13:00	**TEMP4 OUT:**	103 °C	04/08/2025 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	LB135334BL	LB135334BL	1.3562	1.3562	100	1.3563	1.3563	1.3563	0.0001	1
2	LB135334BS	LB135334BS	1.5874	1.5874	100	1.6407	1.6407	1.6407	0.0533	533
3	Q1505-10	PT-SOL-WP	1.4860	1.4860	100	1.4933	1.4933	1.4933	0.0073	73
4	Q1717-01	EFFLUENT	1.4958	1.4958	50	1.6106	1.6106	1.6106	0.1148	2296
5	Q1717-01DUP	EFFLUENTDUP	1.6362	1.6362	50	1.7512	1.7512	1.7512	0.1150	2300
6	Q1717-04	AERATION-1	1.4951	1.4951	50	1.5582	1.5582	1.5582	0.0631	1262

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 135334

WorkList Name : tss q1505 w **WorkList ID :** 188803 **Department :** Wet-Chemistry **Date :** 04-08-2025 09:24:06

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1505-10	PT-SOL-WP	Water	TSS	Cool 4 deg C	ALLI03	QA Of	03/03/2025	SM2540 D
Q1717-01 A	EFFLUENT	Water	TSS	Cool 4 deg C	HOLL01	L21	04/03/2025	SM2540 D
Q1717-04	AERATION-1	Water	TSS	Cool 4 deg C	HOLL01	L21	04/03/2025	SM2540 D

Date/Time 04/08/25 09:40

Raw Sample Received by: JB WC

Raw Sample Relinquished by:

Date/Time 04/08/25 13:30

Raw Sample Received by:

Raw Sample Relinquished by: JB WC

Reviewed By:Iwona
On:4/9/2025 9:33:41 AM
Inst Id :WC SC-3
LB :LB135334

TOTAL Dissolved Solids - SM2540C

Run Number: LB135335

SUPERVISOR: Iwona **ANALYST:** jignesh

Date: 04/09/2025

BalanceID: WC SC-5

Filter ID: 17416528

EMPTY DISH TEMP IN:	104 °C	04/08/2025	11:00	**EMPTY DISH TEMP OUT:**	103 °C	04/08/2025	12:00	**OvenID:**	WC OVEN-1	**Thermo ID:**	WET OVNE#1
TEMP1 IN:	104 °C	04/08/2025	12:30	**TEMP1 OUT:**	104 °C	04/08/2025	13:30	**OvenID1:**	WC OVEN-1	**Thermo ID1:**	WET OVEN#1
TEMP2 IN:	104 °C	04/08/2025	15:30	**TEMP2 OUT:**	103 °C	04/09/2025	07:30	**OvenID2:**	WC OVEN-2	**Thermo ID2:**	WET OVEN#2
TEMP3 IN:	180 °C	04/09/2025	07:33	**TEMP3 OUT:**	182 °C	04/09/2025	09:35	**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	LB135335BL	LB135335BL	108.9631	108.9631	100	108.9631	108.9631	108.9631	0.0000	0
2	LB135335BS	LB135335BS	98.5637	98.5637	100	98.5731	98.5731	98.5731	0.0094	94
3	Q1505-10	PT-SOL-WP	101.0907	101.0907	100	101.1188	101.1188	101.1188	0.0281	281

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

Result mg/L = $\frac{D}{A} * 1000 * 1000$

WORKLIST(Hardcopy Internal Chain)

LB 135335

WorkList Name : tds q1505 w **WorkList ID :** 188802 **Department :** Wet-Chemistry **Date :** 04-08-2025 09:23:19

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1505-10	PT-SOL-WP	Water	TDS	Cool 4 deg C	ALLI03	QA Of	03/03/2025	SM2540 C

Date/Time 04/8/25 12:40

Raw Sample Received by: JE CW C)

Raw Sample Relinquished by: SJ (QAO)

Date/Time 04/08/25 16:00

Raw Sample Received by: NA

Reviewed By:lwon
On:4/9/2025 9:33:
AM
Inst Id :WC SC-3
LB :LB135335

TOTAL SOLIDS - SM2540B

SUPERVISOR: Iwona
ANALYST: jignesh
Date: 04/08/2025
Run Number: LB135336
BalanceID: WC SC-5
OvenID: WC OVEN-1
ThermometerID: WET OVEN#1

TEMP1 IN:	104 °C	04/08/2025 11:00	**TEMP1 OUT:**	103 °C	04/08/2025 12:00
TEMP2 IN:	104 °C	04/08/2025 12:30	**TEMP2 OUT:**	103 °C	04/08/2025 13:30
TEMP3 IN:	104 °C	04/08/2025 15:30	**TEMP3 OUT:**	104 °C	04/09/2025 07:32
TEMP4 IN:	104 °C	04/09/2025 08:10	**TEMP4 OUT:**	104 °C	04/09/2025 09:45

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	LB135336BL	LB135336BL	75.6361	75.6361	100	75.6361	75.6361	75.6361	0.0000	0
2	Q1505-10	PT-SOL-WP	87.9043	87.9043	100	87.9394	87.9394	87.9394	0.0351	351

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 135336

WorkList Name : ts w q1505 **WorkList ID :** 188801 **Department :** Wet-Chemistry **Date :** 04-08-2025 09:22:37

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1505-10	PT-SOL-WP	Water	TS	Cool 4 deg C	ALLI03	QA Of	03/03/2025	SM2540 B

Date/Time 04/08/25 12:40

Raw Sample Received by: JP (WC)

Raw Sample Relinquished by: SJ (QAO)

Date/Time 04/08/25

Raw Sample Received by:

Reviewed By:lwon
On:4/9/2025 9:32:
AM
Inst Id :WC SC-3
LB :LB135336

Alliance TECHNICAL GROUP

Water Ammonia Preparation Sheet

PB167063

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: 03/12/2025 **Time :** 10:05 **Temp :** 150 °C

End Digest Date: 03/12/2025 **Time :** 11:05 **Temp :** 158 °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: JZ

Standared Name	MLS USED	STD REF. # FROM LOG
LCSW	1.0ML	WP111947
MS/MSD SPIKE SOL.	1.0ML	WP111946
PBW	50.0ML	W3112
RL CHECK	N/A	AS PER PB167083
N/A	N/A	N/A

Chemical Used	ML/SAMPLE USED	Lot Number
BORATE BUFFER	2.5ML	WP111325
NAOH 6N	0.5-2.0ML	WP111318
H2SO4 0.04N	5.0ML	WP110335
pH strip-Ammonia	N/A	W3133
KI-starch paper	N/A	W3155
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 WP111604,

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
03/12/2025 11:15	RM (WC)	RM (WC)
	Preparation Group	**Analysis Group**

Alliance TECHNICAL GROUP

Water Ammonia Preparation Sheet

PB167063

Lab Sample ID	Client Sample ID	Initial Vol (ml)	Final Vol (ml)	pH	Sulfide	Oxidizing	Nitrate/ Nitrite	Comment	Prep Pos
PB167063BL	PBW063	50	50	<2	N/A	Negative	N/A	AFTER ADDING 6N NAOH PH IS 9.5	N/A
PB167063BS	LCS063	50	50	<2	N/A	Negative	N/A	AFTER ADDING 6N NAOH PH IS 9.5	N/A
Q1505-11	PT-NUT1-WP	50	50	<2	N/A	Negative	N/A	AFTER ADDING 6N NAOH PH IS 9.5	N/A
Q1519-01	WATER TREATMENT DISCHARGE	50	50	<2	N/A	Negative	N/A	AFTER ADDING 6N NAOH PH IS 9.5	N/A
Q1539-01	TAPIAL3-MW03D-031025-00-T1	50	50	<2	N/A	Negative	N/A	AFTER ADDING 6N NAOH PH IS 9.5	N/A
Q1539-02	TAPFTA-MW01I-031025-00-T2	50	50	<2	N/A	Negative	N/A	AFTER ADDING 6N NAOH PH IS 9.5	N/A
Q1539-02DUP	TAPFTA-MW01I-031025-00-T2DUP	50	50	<2	N/A	Negative	N/A	AFTER ADDING 6N NAOH PH IS 9.5	N/A
Q1539-02MS	TAPFTA-MW01I-031025-00-T2MS	50	50	<2	N/A	Negative	N/A	AFTER ADDING 6N NAOH PH IS 9.5	N/A
Q1539-02MSD	TAPFTA-MW01I-031025-00-T2MSD	50	50	<2	N/A	Negative	N/A	AFTER ADDING 6N NAOH PH IS 9.5	N/A

Alliance TECHNICAL GROUP

Water Phosphorus-Total Preparation Sheet

PB167144

SOP ID : M365.3 & SM4500-P E-18

SDG No : N/A

Matrix : WATER

Pippete ID : WC

Balance ID : N/A

Hood ID : HOOD#3

Block ID : WC S-1, WC S-2

Weigh By : N/A

Start Digest Date: 03/14/2025 **Time :** 11:30 **Temp :** 95 °C

End Digest Date: 03/14/2025 **Time :** 12:45 **Temp :** 96 °C

Digestion tube ID : M5595

Filter paper ID : 400213

pH Meter ID : N/A

Block Thermometer ID : WC-BLOCK#1

Prep Technician Signature: NF

Supervisor Signature: LR

Standared Name	MLS USED	STD REF. # FROM LOG
LCSW	0.5ML	WP110401
MS/MSD SPIKE SOL.	0.5ML	WP110400
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	WP109922
AMMONIUM PERSULFATE	0.4g	W3035
pH Paper 0-14	N/A	W3140
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	50.0ML	WP112299
CAL2	CAL2	50.0ML	WP112300
CAL3	CAL3	50.0ML	WP112301
CAL4	CAL4	50.0ML	WP112302
CAL5	CAL5	50.0ML	WP112303
CAL6	CAL6	50.0ML	WP112304
ICV	ICV	50.0ML	WP112306
ICB	ICB	50.0ML	W3112
CCV	CCV	50.0ML	WP112305
CCB	CCB	50.0ML	W3112

Extraction Conformance/Non-Conformance Comments:

N/A

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
	Preparation Group	Analysis Group

NF

03.14.2025

Alliance TECHNICAL GROUP

Water Phosphorus-Total Preparation Sheet

PB167144

Lab Sample ID	Client Sample ID	Initial Vol (ml)	Final Vol (ml)	pH	Sulfide	Oxidizing	Nitrate/ Nitrite	Comment	Prep Pos
PB167144BL	PBW144	50	50	<2	N/A	N/A	N/A	N/A	N/A
PB167144BS	LCS144	50	50	<2	N/A	N/A	N/A	N/A	N/A
Q1505-13	PT-NUT2-WP	50	50	<2	N/A	N/A	N/A	N/A	N/A
Q1567-01	EFFLUENT	50	50	<2	N/A	N/A	N/A	N/A	N/A
Q1567-01DUP	EFFLUENTDUP	50	50	<2	N/A	N/A	N/A	N/A	N/A
Q1567-01MS	EFFLUENTMS	50	50	<2	N/A	N/A	N/A	N/A	N/A
Q1567-01MSD	EFFLUENTMSD	50	50	<2	N/A	N/A	N/A	N/A	N/A

WORKLIST(Hardcopy Internal Chain)

WorkList Name : TOTAL P-03142025 **WorkList ID :** 188277 **Department :** Distillation **Date :** 03-14-2025 08:37:47

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1505-13	PT-NUT2-WP	Water	Phosphorus-Total	Conc H2SO4 to pH < 2	ALLI03	QA Of	03/03/2025	365.3
Q1567-01	EFFLUENT	Water	Phosphorus-Total	Conc H2SO4 to pH < 2	HOLL01	F11	03/13/2025	365.3

Date/Time 03.14.2025 , 10:50
Raw Sample Received by: NF(WC)
Raw Sample Relinquished by: MWC)

Date/Time 03.14.2025 , 16:00
Raw Sample Received by: M.Well
Raw Sample Relinquished by: NF(WC)

Alliance TECHNICAL GROUP

Water Phenolics Preparation Sheet

PB167174

SOP ID : M420.1 & 9065-Phenolics-13

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: 03/17/2025 **Time :** 11:45 **Temp :** 150 °C

End Digest Date: 03/17/2025 **Time :** 12:45 **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	WP112234
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	W3140
CONC H2SO4	N/A	M6041
KI-starch paper	N/A	W3155
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
N/A	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

N/A

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
03/17/2025 13:00	RM CWC	RM CWC
	Preparation Group	Analysis Group

Alliance TECHNICAL GROUP

Water Phenolics Preparation Sheet

PB167174

Lab Sample ID	Client Sample ID	Initial Vol (ml)	Final Vol (ml)	pH	Sulfide	Oxidizing	Nitrate/ Nitrite	Comment	Prep Pos
PB167174BL	PBW174	50	50	<2	N/A	N/A	N/A	N/A	N/A
PB167174BS	LCS174	50	50	<2	N/A	N/A	N/A	N/A	N/A
Q1505-26	PT-PHEN-WP	50	50	<2	N/A	N/A	N/A	N/A	N/A

Alliance TECHNICAL GROUP

Water Phenolics Preparation Sheet

PB167175

SOP ID : M420.1 & 9065-Phenolics-13

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: 03/17/2025 **Time :** 11:45 **Temp :** 150 °C

End Digest Date: 03/17/2025 **Time :** 12:45 **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	WP112234
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	W3140
CONC H2SO4	N/A	M6041
KI-starch paper	N/A	W3155
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
N/A	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

N/A

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
03/17/2025 1300	RM CWC	RM CWC
	Preparation Group	Analysis Group

Alliance TECHNICAL GROUP

Water Phenolics Preparation Sheet

PB167175

Lab Sample ID	Client Sample ID	Initial Vol (ml)	Final Vol (ml)	pH	Sulfide	Oxidizing	Nitrate/ Nitrite	Comment	Prep Pos
PB167175BL	PBW175	50	50	<2	N/A	N/A	N/A	N/A	N/A
PB167175BS	LCS175	50	50	<2	N/A	N/A	N/A	N/A	N/A
Q1505-25	PT-PHEN-WP	50	50	<2	N/A	N/A	N/A	N/A	N/A

Alliance TECHNICAL GROUP

Water TKN Preparation Sheet

PB167190

SOP ID : MSM4500-N Org C-TKN-11

SDG No : N/A

Matrix : WATER

Pippete ID : WC

Balance ID : N/A

Hood ID : HOOD#2&3

Block ID : WC-DIST-BLOCK-1

Weigh By : N/A

Start Digest Date: 03/19/2025 **Time :** 09:40 **Temp :** 375 °C

End Digest Date: 03/19/2025 **Time :** 11:10 **Temp :** 379 °C

Start Distillation Date: 03/19/2025 **Time :** 12:00 **Temp :** 150 °C

End Distillation Date: 03/19/2025 **Time :** 13:00 **Temp :** 160 °C

Digestion tube ID : M5595

Filter paper ID : N/A

pH Meter ID : N/A

Block Thermometer ID : Therm#2(2179)

Prep Technician Signature: RM

Supervisor Signature: IZ

Standared Name	MLS USED	STD REF. # FROM LOG
TKN CAL STD	50.0ML	WP112338
TKN CCV STD	50.0ML	WP112339
TKN ICV STD	50.0ML	WP112340
TKN LCS STD	50.0ML	WP112341
N/A	N/A	N/A

Chemical Used	ML/SAMPLE USED	Lot Number
TKN DIGESTION FLUID	10.0ML	WP111319
TKN DISTILLATION BUFFER	10.0ML	WP112079
H2SO4 0.04N	5.0ML	WP110335
pH Paper 0-14	N/A	W3140
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:

RL CHECK 10ML FROM WP112339,ALL GLASSWEAR ARE STEAMED OUT AND THERE WERE NO TRACE OF AMMONIA USING NESLER REAGENT WP111604

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
03/19/2025 13:15	RM CWC	RM CWC
	Preparation Group	Analysis Group

Alliance TECHNICAL GROUP

Water TKN Preparation Sheet

PB167190

Lab Sample ID	Client Sample ID	Initial Vol (ml)	Final Vol (ml)	pH	Sulfide	Oxidizing	Nitrate/ Nitrite	Comment	Prep Pos
PB167190BL	PBW190	50	50	<2	N/A	N/A	N/A	PH AFTER ADDING DIST BUFFER>11	N/A
PB167190BS	LCS190	50	50	<2	N/A	N/A	N/A	PH AFTER ADDING DIST BUFFER>11	N/A
Q1505-13	PT-NUT2-WP	50	50	<2	N/A	N/A	N/A	PH AFTER ADDING DIST BUFFER>11	N/A

Alliance TECHNICAL GROUP

Water Cyanide Preparation Sheet

PB167191

SOP ID : M9012B-Total, Amenable and Reactive Cyanide-20

SDG No : N/A

Matrix : WATER

Pippete ID : WC

Balance ID : N/A

Hood ID : HOOD#1

Block ID : MC-1, MC-2

Weigh By : N/A

Start Digest Date: 03/18/2025 **Time :** 08:30 **Temp :** 124 °C

End Digest Date: 03/18/2025 **Time :** 10:00 **Temp :** 126 °C

Digestion tube ID : M5595

Filter paper ID : N/A

pH Meter ID : N/A

Block Thermometer ID : WC CYANIDE

Prep Technician Signature: TB

Supervisor Signature: IZ

Standared Name	MLS USED	STD REF. # FROM LOG
LCSW	1ML	WP111296
MS/MSD SPIKE SOL.	0.40ML	WP111295
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	WP111294
50% v/v H2SO4	5ML	WP110391
51% w/v MgCL2	2ML	WP110390
pH Paper 0-14	N/A	W3121
Nitrate/Nitrite Strip	N/A	W3101
Lead Acetate strip	N/A	W3134
KI-starch paper	N/A	W3155
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	W3012
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	5.0ML	WP111295
LOWSTD	LOWSTD	0.1ML	WP111295

Extraction Conformance/Non-Conformance Comments:

N/A

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
03.18.25 10:15	TB / WC	VF / WC
	Preparation Group	Analysis Group

Alliance TECHNICAL GROUP

Water Cyanide Preparation Sheet

PB167191

Lab Sample ID	Client Sample ID	Initial Vol (ml)	Final Vol (ml)	pH	Sulfide	Oxidizing	Nitrate/ Nitrite	Comment	Prep Pos
PB167191BL	PBW191	50	50	>12	Negative	Negative	Negative	N/A	N/A
PB167191BS	LCS191	50	50	>12	Negative	Negative	Negative	N/A	N/A
Q1505-23	PT-CN-WP	50	50	>12	Negative	Negative	Negative	N/A	N/A

Alliance TECHNICAL GROUP

Water Cyanide Preparation Sheet

PB167192

SOP ID : MSM4500-CN C,E-Cyanide-12

SDG No : N/A

Start Digest Date: 03/18/2025 **Time :** 08:30 **Temp :** 124 °C

Matrix : WATER

End Digest Date: 03/18/2025 **Time :** 10:00 **Temp :** 126 °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	WP111296
MS/MSD SPIKE SOL.	0.40ML	WP111295
PBW	50ML	W3112
RL CHECK	50ML	WP112330
N/A	N/A	N/A

Chemical Used	ML/SAMPLE USED	Lot Number
0.25N NaOH	50ML	WP111294
50% v/v H2SO4	5ML	WP110391
51% w/v MgCL2	2ML	WP110390
pH Paper 0-14	N/A	W3140
Nitrate/Nitrite Strip	N/A	W3101
Lead Acetate strip	N/A	W3134
KI-starch paper	N/A	W3155
0.4N Sulfamic Acid	5ML	WP110388
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	W3012
ICB	ICB	N/A	N/A
CCV	CCV	N/A	N/A
CCB	CCB	N/A	N/A
Midrange	Midrange	2.5ML	WP111295
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
03.18.2025, 10:15	JP / WC	NF/WC
	Preparation Group	Analysis Group

Alliance TECHNICAL GROUP

Water Cyanide Preparation Sheet

PB167192

Lab Sample ID	Client Sample ID	Initial Vol (ml)	Final Vol (ml)	pH	Sulfide	Oxidizing	Nitrate/ Nitrite	Comment	Prep Pos
PB167192BL	PBW192	50	50	>12	Negative	Negative	Negative	N/A	N/A
PB167192BS	LCS192	50	50	>12	Negative	Negative	Negative	N/A	N/A
Q1505-22	PT-CN-WP	50	50	>12	Negative	Negative	Negative	N/A	N/A
Q1583-01	EFF-WASTE WATER	50	50	>12	Negative	Negative	Positive	N/A	N/A
Q1583-01DUP	EFF-WASTE WATERDUP	50	50	>12	Negative	Negative	Positive	N/A	N/A
Q1583-01MS	EFF-WASTE WATERMS	50	50	>12	Negative	Negative	Positive	N/A	N/A
Q1583-01MSD	EFF-WASTE WATERMSD	50	50	>12	Negative	Negative	Positive	N/A	N/A

WORKLIST(Hardcopy Internal Chain)

WorkList Name : cn w q1583 **WorkList ID :** 188315 **Department :** Distillation **Date :** 03-17-2025 10:17:10

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1505-22	PT-CN-WP	Water	Cyanide	1:1 NaOH to pH >12	ALLI03	QA Of	03/03/2025	SM4500-CN C
Q1583-01 C	EFF-WASTE WATER	Water	Cyanide	1:1 NaOH to pH >12	ARDM01	F11	03/14/2025	SM4500-CN C

Date/Time 03.18.2025, 07:45
Raw Sample Received by: [signature]
Raw Sample Relinquished by: [signature]

Date/Time 03.18.2025, 11:00
Raw Sample Received by: [signature]
Raw Sample Relinquished by: [signature]

Alliance TECHNICAL GROUP

Water Cyanide Preparation Sheet

PB167195

SOP ID : N/A

SDG No : N/A

Matrix : WATER

Pippete ID : WC

Balance ID : N/A

Hood ID : HOOD#1

Block ID : MC-1, MC-2

Weigh By : N/A

Start Digest Date: 03/18/2025 **Time :** 08:30 **Temp :** 124 °C

End Digest Date: 03/18/2025 **Time :** 10:00 **Temp :** 126 °C

Digestion tube ID : M5595

Filter paper ID : N/A

pH Meter ID : N/A

Block Thermometer ID : WC CYANIDE

Prep Technician Signature: JD

Supervisor Signature: IZ

Standared Name	MLS USED	STD REF. # FROM LOG
LCSW	1ML	WP111296
MS/MSD SPIKE SOL.	0.40ML	WP111295
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	WP111294
50% v/v H2SO4	5ML	WP110391
51% w/v MgCL2	2ML	WP110390
pH Paper 0-14	N/A	W3121
Nitrate/Nitrite Strip	N/A	W3101
Lead Acetate strip	N/A	W3134
KI-starch paper	N/A	W3155
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	AS PER PB167191
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	5.0ML	AS PER PB167191
LOWSTD	LOWSTD	0.1ML	AS PER PB167191

Extraction Conformance/Non-Conformance Comments:

N/A

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
03.18.2025, 10:15	JD / WC	NF / WC
	Preparation Group	Analysis Group

Alliance TECHNICAL GROUP

Water Cyanide Preparation Sheet

PB167195

Lab Sample ID	Client Sample ID	Initial Vol (ml)	Final Vol (ml)	pH	Sulfide	Oxidizing	Nitrate/ Nitrite	Comment	Prep Pos
PB167195BL	PBW195	50	50	>12	Negative	Negative	Negative	N/A	N/A
PB167195BS	LCS195	50	50	>12	Negative	Negative	Negative	N/A	N/A
Q1505-24	PT-CN-WP	50	50	>12	Negative	Negative	Negative	N/A	N/A

Alliance TECHNICAL GROUP

Water Sulfide Preparation Sheet

PB167198

SOP ID : M9034-SM4500 S F-Sulfide-15

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: 03/20/2025 **Time :** 08:45 **Temp :** 70 °C

End Digest Date: 03/20/2025 **Time :** 10:15 **Temp :** 70 °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	1.25ML	WP112373
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	WP111004
FORMALDEHYDE	2.0ML	W2725
CONC H2SO4	N/A	M6041
pH Paper 0-14	N/A	W3140
KI-starch paper	N/A	W3155
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:

03/20/2025 RIV

N/A

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
	Preparation Group	Analysis Group

Alliance TECHNICAL GROUP

Water Sulfide Preparation Sheet

PB167198

Lab Sample ID	Client Sample ID	Initial Vol (ml)	Final Vol (ml)	pH	Sulfide	Oxidizing	Nitrate/ Nitrite	Comment	Prep Pos
PB167198BL	PBW198	50	50	>12	N/A	Negative	N/A	N/A	N/A
PB167198BS	LCS198	50	50	>12	N/A	Negative	N/A	N/A	N/A
Q1505-29	PT-S2-WP	50	50	>12	N/A	Negative	N/A	N/A	N/A

Alliance TECHNICAL GROUP

Water Sulfide Preparation Sheet

PB167199

SOP ID : M9034-SM4500 S F-Sulfide-15

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: 03/20/2025 **Time :** 08:45 **Temp :** 70 °C

End Digest Date: 03/20/2025 **Time :** 10:15 **Temp :** 70 °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: JZ

Standared Name	MLS USED	STD REF. # FROM LOG
LCSW	1.25ML	WP112373
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	WP111004
FORMALDEHYDE	2.0ML	W2725
CONC H2SO4	N/A	M6041
pH Paper 0-14	N/A	W3140
KI-starch paper	N/A	W3155
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:

03/20/2025 RM

N/A

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
	Preparation Group	Analysis Group

Alliance TECHNICAL GROUP

Water Sulfide Preparation Sheet

PB167199

Lab Sample ID	Client Sample ID	Initial Vol (ml)	Final Vol (ml)	pH	Sulfide	Oxidizing	Nitrate/ Nitrite	Comment	Prep Pos
PB167199BL	PBW199	50	50	>12	N/A	Negative	N/A	N/A	N/A
PB167199BS	LCS199	50	50	>12	N/A	Negative	N/A	N/A	N/A
Q1505-28	PT-S2-WP	50	50	>12	N/A	Negative	N/A	N/A	N/A

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Instrument ID: KONELAB

Daily Analysis Runlog For Sequence/QCBatch ID # LB134982

Review By	Niha	Review On	3/12/2025 9:29:49 AM
Supervise By	Iwona	Supervise On	3/12/2025 9:30:23 AM
SubDirectory	LB134982	Test	Nitrite

STD. NAME	STD REF.#
ICAL Standard	WP112267
ICV Standard	WP112269
CCV Standard	WP112268
ICSA Standard	N/A
CRI Standard	N/A
LCS Standard	N/A
Chk Standard	WP112270

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	0.0000PPM	0.0000PPM	CAL1	03/11/25 11:18		Niha	OK
2	0.012PPM	0.012PPM	CAL2	03/11/25 11:18		Niha	OK
3	0.024PPM	0.024PPM	CAL3	03/11/25 11:18		Niha	OK
4	0.060PPM	0.060PPM	CAL4	03/11/25 11:18		Niha	OK
5	0.12PPM	0.12PPM	CAL5	03/11/25 11:18		Niha	OK
6	0.30PPM	0.30PPM	CAL6	03/11/25 11:18		Niha	OK
7	0.60PPM	0.60PPM	CAL7	03/11/25 11:18		Niha	OK
8	ICV1	ICV1	ICV	03/11/25 12:10		Niha	OK
9	ICB1	ICB1	ICB	03/11/25 12:10		Niha	OK
10	CCV1	CCV1	CCV	03/11/25 12:10		Niha	OK
11	CCB1	CCB1	CCB	03/11/25 12:10		Niha	OK
12	LB134982BLW	LB134982BLW	MB	03/11/25 12:10		Niha	OK
13	LB134982BSW	LB134982BSW	LCS	03/11/25 12:13		Niha	OK
14	Q1505-14	PT-NUT3-WP	SAM	03/11/25 12:13		Niha	OK
15	Q1505-14DL	PT-NUT3-WPDL	SAM	03/11/25 12:13		Niha	OK
16	RL	RL	SAM	03/11/25 12:37		Niha	OK
17	CCV2	CCV2	CCV	03/11/25 12:37		Niha	OK
18	CCB2	CCB2	CCB	03/11/25 12:37		Niha	OK

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Instrument ID: WC PH METER-1

Daily Analysis Runlog For Sequence/QCBatch ID # LB134984

Review By	jignesh	Review On	3/11/2025 12:59:23 PM
Supervise By	Iwona	Supervise On	3/11/2025 1:19:49 PM
SubDirectory	LB134984	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,W3161,W3072

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	CAL1	CAL1	CAL	03/11/25 12:30		jignesh	OK
2	CAL2	CAL2	CAL	03/11/25 12:31		jignesh	OK
3	CAL3	CAL3	CAL	03/11/25 12:33		jignesh	OK
4	ICV	ICV	ICV	03/11/25 12:37		jignesh	OK
5	CCV1	CCV1	CCV	03/11/25 12:40		jignesh	OK
6	Q1505-20	PT-PH-WP	SAM	03/11/25 12:50		jignesh	OK
7	Q1541-01	205703	SAM	03/11/25 13:00		jignesh	OK
8	Q1541-01DUP	205703DUP	DUP	03/11/25 13:01		jignesh	OK
9	CCV2	CCV2	CCV	03/11/25 13:10		jignesh	OK

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Instrument ID: WC PH METER-1

Daily Analysis Runlog For Sequence/QCBatch ID # LB134985

Review By	jignesh	Review On	3/11/2025 1:06:12 PM
Supervise By	Iwona	Supervise On	3/11/2025 1:19:39 PM
SubDirectory	LB134985	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,W3161,W3072

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	CAL1	CAL1	CAL	03/11/25 12:30		jignesh	OK
2	CAL2	CAL2	CAL	03/11/25 12:31		jignesh	OK
3	CAL3	CAL3	CAL	03/11/25 12:33		jignesh	OK
4	ICV	ICV	ICV	03/11/25 12:37		jignesh	OK
5	CCV1	CCV1	CCV	03/11/25 12:40		jignesh	OK
6	Q1505-21	PT-PH-WP	SAM	03/11/25 12:50		jignesh	OK
7	CCV2	CCV2	CCV	03/11/25 13:10		jignesh	OK

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Instrument ID: IMHOFF CONE

Daily Analysis Runlog For Sequence/QCBatch ID # LB134988

Review By	Niha	Review On	3/11/2025 4:00:59 PM
Supervise By	Iwona	Supervise On	3/11/2025 4:02:56 PM
SubDirectory	LB134988	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	Q1505-30	PT-SSOL-WP	SAM	03/11/25 11:15		Niha	OK

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Instrument ID: TITRAMETRIC

Daily Analysis Runlog For Sequence/QCBatch ID # LB134998

Review By	Niha	Review On	3/13/2025 11:55:51 AM
Supervise By	Iwona	Supervise On	3/13/2025 11:56:30 AM
SubDirectory	LB134998	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	WP111873,WP112272,WP112273,W3095

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	LB134998BL	LB134998BL	MB	03/12/25 12:07		Niha	OK
2	LB134998BS	LB134998BS	LCS	03/12/25 12:10		Niha	OK
3	Q1505-05	PT-MIN1-WP	SAM	03/12/25 12:13		Niha	OK

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Instrument ID: DO METER

Daily Analysis Runlog For Sequence/QCBatch ID # LB135002

Review By	rubina	Review On	3/18/2025 12:51:16 PM
Supervise By	Iwona	Supervise On	3/18/2025 12:51:47 PM
SubDirectory	LB135002	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	WP112274,W3149,WP110386,W3103,W3109,W3105,WP112276,WP112275,WP111323

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	LB135002BL	LB135002BL	MB	03/12/25 15:45		rubina	OK
2	LB135002BS	LB135002BS	LCS	03/12/25 15:45		rubina	OK
3	Q1505-03	PT-DEM-WP	SAM	03/12/25 15:45		rubina	OK

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Instrument ID: DO METER

Daily Analysis Runlog For Sequence/QCBatch ID # LB135003

Review By	rubina	Review On	3/18/2025 12:54:40 PM
Supervise By	Iwona	Supervise On	3/18/2025 12:56:11 PM
SubDirectory	LB135003	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	WP112274,W3149,WP110386,W3103,W3109,W3105,WP112276,WP112275,WP111323

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	LB135003BL	LB135003BL	MB	03/12/25 15:45		rubina	OK
2	LB135003BS	LB135003BS	LCS	03/12/25 15:45		rubina	OK
3	LB135003BSD1	LB135003BSD1	LCS	03/12/25 15:45		rubina	OK
4	LB135003BSD2	LB135003BSD2	LCS	03/12/25 15:45		rubina	OK
5	Q1505-03	PT-DEM-WP	SAM	03/12/25 15:45		rubina	OK

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Instrument ID: IC-2

Daily Analysis Runlog For Sequence/QCBatch ID # LB135004

Review By	Niha	Review On	3/13/2025 1:49:31 PM
Supervise By	Iwona	Supervise On	3/13/2025 1:56:09 PM
SubDirectory	LB135004	Test	Anions

STD. NAME	STD REF.#
ICAL Standard	WP112016,WP112017,WP112018,WP112019,WP112020,WP112021,WP112022
ICV Standard	WP112023
CCV Standard	WP112265
ICSA Standard	N/A
CRI Standard	N/A
LCS Standard	WP112266
Chk Standard	WP112024,WP112025

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	STD1	STD1	CAL1	02/21/25 11:05	All standards, samples, and	NF/IZ	OK
2	STD2	STD2	CAL2	02/21/25 11:26	QC are filtered through	NF/IZ	OK
3	STD3	STD3	CAL3	02/21/25 11:48	0.45um, filter lot W3160	NF/IZ	OK
4	STD4	STD4	CAL4	02/21/25 12:09		NF/IZ	OK
5	STD5	STD5	CAL5	02/21/25 12:31		NF/IZ	OK
6	STD6	STD6	CAL6	02/21/25 12:52		NF/IZ	OK
7	STD7	STD7	CAL7	02/21/25 13:13		NF/IZ	OK
8	ICV1	ICV1	ICV	02/21/25 13:35		NF/IZ	OK
9	ICB1	ICB1	ICB	02/21/25 13:56		NF/IZ	OK
10	CCV1	CCV1	CCV	03/11/25 10:41		NF/IZ	OK
11	CCB1	CCB1	CCB	03/11/25 11:02		NF/IZ	OK
12	LB135004BLW	LB135004BLW	MB	03/11/25 11:24		NF/IZ	OK
13	LB135004BSW	LB135004BSW	LCS	03/11/25 11:45		NF/IZ	OK
14	Q1505-05	PT-MIN1-WP	SAM	03/11/25 12:10	CL,SO4 high	NF/IZ	Dilution
15	Q1505-11	PT-NUT1-WP	SAM	03/11/25 12:32	NO3 high	NF/IZ	Dilution
16	Q1505-15	PT-NUT3-WP	SAM	03/11/25 12:53		NF/IZ	OK
17	Q1505-05DL	PT-MIN1-WPDL	SAM	03/11/25 13:15	10X for CL,SO4,Still CL high	NF/IZ	Dilution
18	Q1505-05DL2	PT-MIN1-WPDL2	SAM	03/11/25 13:36	Report 50X for CL	NF/IZ	Confirms

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Instrument ID: IC-2

Daily Analysis Runlog For Sequence/QCBatch ID # LB135004

Review By	Niha	Review On	3/13/2025 1:49:31 PM
Supervise By	Iwona	Supervise On	3/13/2025 1:56:09 PM
SubDirectory	LB135004	Test	Anions

STD. NAME	STD REF.#
ICAL Standard	WP112016,WP112017,WP112018,WP112019,WP112020,WP112021,WP112022
ICV Standard	WP112023
CCV Standard	WP112265
ICSA Standard	N/A
CRI Standard	N/A
LCS Standard	WP112266
Chk Standard	WP112024,WP112025

19	Q1505-11DL	PT-NUT1-WPDL	SAM	03/11/25 13:58	Report 10X for NO3	NF/IZ	Confirms
20	CCV2	CCV2	CCV	03/11/25 14:19		NF/IZ	OK
21	CCB2	CCB2	CCB	03/11/25 14:41		NF/IZ	OK

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Instrument ID: IC-2

Daily Analysis Runlog For Sequence/QCBatch ID # LB135005

Review By	Niha	Review On	3/13/2025 1:48:08 PM
Supervise By	Iwona	Supervise On	3/13/2025 1:56:00 PM
SubDirectory	LB135005	Test	Anions

STD. NAME	STD REF.#
ICAL Standard	WP112016,WP112017,WP112018,WP112019,WP112020,WP112021,WP112022
ICV Standard	WP112023
CCV Standard	WP112265
ICSA Standard	N/A
CRI Standard	N/A
LCS Standard	WP112266
Chk Standard	WP112024,WP112025

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	STD1	STD1	CAL1	02/21/25 11:05	All standards, samples, and	NF/IZ	OK
2	STD2	STD2	CAL2	02/21/25 11:26	QC are filtered through	NF/IZ	OK
3	STD3	STD3	CAL3	02/21/25 11:48	0.45um, filter lot W3160	NF/IZ	OK
4	STD4	STD4	CAL4	02/21/25 12:09		NF/IZ	OK
5	STD5	STD5	CAL5	02/21/25 12:31		NF/IZ	OK
6	STD6	STD6	CAL6	02/21/25 12:52		NF/IZ	OK
7	STD7	STD7	CAL7	02/21/25 13:13		NF/IZ	OK
8	ICV1	ICV1	ICV	02/21/25 13:35		NF/IZ	OK
9	ICB1	ICB1	ICB	02/21/25 13:56		NF/IZ	OK
10	CCV1	CCV1	CCV	03/11/25 10:41		NF/IZ	OK
11	CCB1	CCB1	CCB	03/11/25 11:02		NF/IZ	OK
12	LB135005BLW	LB135005BLW	MB	03/11/25 11:24		NF/IZ	OK
13	LB135005BSW	LB135005BSW	LCS	03/11/25 11:45		NF/IZ	OK
14	Q1505-06	PT-MIN1-WP	SAM	03/11/25 12:10	CL,SO4 high	NF/IZ	Dilution
15	Q1505-12	PT-NUT1-WP	SAM	03/11/25 12:32	NO3 high	NF/IZ	Dilution
16	Q1505-16	PT-NUT3-WP	SAM	03/11/25 12:53		NF/IZ	OK
17	Q1505-06DL	PT-MIN1-WPDL	SAM	03/11/25 13:15	10X for CL,SO4,Still CL high	NF/IZ	Dilution
18	Q1505-06DL2	PT-MIN1-WPDL2	SAM	03/11/25 13:36	50X for CL	NF/IZ	Confirms

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Fax : 908 789 8922

Instrument ID: IC-2

Daily Analysis Runlog For Sequence/QCBatch ID # LB135005

Review By	Niha	Review On	3/13/2025 1:48:08 PM
Supervise By	Iwona	Supervise On	3/13/2025 1:56:00 PM
SubDirectory	LB135005	Test	Anions

STD. NAME	STD REF.#
ICAL Standard	WP112016,WP112017,WP112018,WP112019,WP112020,WP112021,WP112022
ICV Standard	WP112023
CCV Standard	WP112265
ICSA Standard	N/A
CRI Standard	N/A
LCS Standard	WP112266
Chk Standard	WP112024,WP112025

19	Q1505-12DL	PT-NUT1-WPDL	SAM	03/11/25 13:58	10X for NO3	NF/IZ	Confirms
20	CCV2	CCV2	CCV	03/11/25 14:19		NF/IZ	OK
21	CCB2	CCB2	CCB	03/11/25 14:41		NF/IZ	OK
22	Q1539-01	TAPIAL3-MW03D-031	SAM	03/11/25 15:02	CL high	NF/IZ	Dilution
23	Q1539-01MS	TAPIAL3-MW03D-031	MS	03/11/25 15:24	Water - 9.5ml of sample, 0.5mL W3092	NF/IZ	OK
24	Q1539-01MSD	TAPIAL3-MW03D-031	MSD	03/11/25 15:46	Water - 9.5ml of sample, 0.5mL W3092	NF/IZ	OK
25	Q1539-02	TAPFTA-MW01I-0310	SAM	03/11/25 16:07		NF/IZ	OK
26	Q1539-01DL	TAPIAL3-MW03D-031	SAM	03/11/25 16:29	10X for CL	NF/IZ	Confirms
27	CCV3	CCV3	CCV	03/11/25 16:50		NF/IZ	OK
28	CCB3	CCB3	CCB	03/11/25 17:11		NF/IZ	OK

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Instrument ID: KONELAB

Daily Analysis Runlog For Sequence/QCBatch ID # LB135012

Review By	rubina	Review On	3/13/2025 1:18:04 PM
Supervise By	Iwona	Supervise On	3/13/2025 1:50:26 PM
SubDirectory	LB135012	Test	Ammonia

STD. NAME	STD REF.#
ICAL Standard	WP112278
ICV Standard	WP112280
CCV Standard	WP112279
ICSA Standard	N/A
CRI Standard	N/A
LCS Standard	WP111947
Chk Standard	WP112163,WP111745,WP111385,WP111660

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	0.0PPM	0.0PPM	CAL1	03/12/25 14:51		rubina	OK
2	0.1PPM	0.1PPM	CAL2	03/12/25 14:51		rubina	OK
3	0.2PPM	0.2PPM	CAL3	03/12/25 14:51		rubina	OK
4	0.4PPM	0.4PPM	CAL4	03/12/25 14:51		rubina	OK
5	1.0PPM	1.0PPM	CAL5	03/12/25 14:51		rubina	OK
6	1.3PPM	1.3PPM	CAL6	03/12/25 14:51		rubina	OK
7	2.0PPM	2.0PPM	CAL7	03/12/25 14:51		rubina	OK
8	ICV1	ICV1	ICV	03/12/25 15:25		rubina	OK
9	ICB1	ICB1	ICB	03/12/25 15:25		rubina	OK
10	CCV1	CCV1	CCV	03/12/25 15:25		rubina	OK
11	CCB1	CCB1	CCB	03/12/25 15:25		rubina	OK
12	RL	RL	SAM	03/12/25 15:25		rubina	OK
13	PB167063BL	PB167063BL	MB	03/12/25 15:25		rubina	OK
14	PB167063BS	PB167063BS	LCS	03/12/25 15:36		rubina	OK
15	Q1505-11	PT-NUT1-WP	SAM	03/12/25 15:36	High	rubina	Dilution
16	Q1519-01	WATER TREATMENT	SAM	03/12/25 15:46		rubina	OK
17	Q1539-01	TAPIAL3-MW03D-031	SAM	03/12/25 15:46		rubina	OK
18	Q1539-02	TAPFTA-MW01I-0310	SAM	03/12/25 15:46		rubina	OK

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Instrument ID: KONELAB

Daily Analysis Runlog For Sequence/QCBatch ID # LB135012

Review By	rubina	Review On	3/13/2025 1:18:04 PM
Supervise By	Iwona	Supervise On	3/13/2025 1:50:26 PM
SubDirectory	LB135012	Test	Ammonia

STD. NAME	STD REF.#
ICAL Standard	WP112278
ICV Standard	WP112280
CCV Standard	WP112279
ICSA Standard	N/A
CRI Standard	N/A
LCS Standard	WP111947
Chk Standard	WP112163,WP111745,WP111385,WP111660

19	Q1539-02DUP	TAPFTA-MW01I-0310	DUP	03/12/25 15:46		rubina	OK
20	Q1539-02MS	TAPFTA-MW01I-0310	MS	03/12/25 15:55		rubina	OK
21	Q1539-02MSD	TAPFTA-MW01I-0310	MSD	03/12/25 15:55		rubina	OK
22	CCV2	CCV2	CCV	03/12/25 15:55		rubina	OK
23	CCB2	CCB2	CCB	03/12/25 15:55		rubina	OK
24	Q1505-11DL	PT-NUT1-WPDL	SAM	03/12/25 16:25	Report 2X	rubina	Confirms
25	CCV3	CCV3	CCV	03/12/25 16:25		rubina	OK
26	CCB3	CCB3	CCB	03/12/25 16:29		rubina	OK

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Instrument ID: WC CONDUCTANCE METER-1

Daily Analysis Runlog For Sequence/QCBatch ID # LB135023

Review By	Niha	Review On	3/17/2025 3:40:54 PM
Supervise By	Iwona	Supervise On	3/17/2025 4:11:24 PM
SubDirectory	LB135023	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	WP111962

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	LB135023BL	LB135023BL	MB	03/13/25 13:00		Iwona	OK
2	LB135023BS	LB135023BS	LCS	03/13/25 13:05		Iwona	OK
3	Q1505-09	PT-COND-WP	SAM	03/13/25 13:10		Iwona	OK
4	Q1505-09DUP	PT-COND-WPDUP	DUP	03/13/25 13:15		Iwona	OK

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Instrument ID: WC SC-3

Daily Analysis Runlog For Sequence/QCBatch ID # LB135025

Review By	jignesh	Review On	3/14/2025 3:42:00 PM
Supervise By	Iwona	Supervise On	4/9/2025 4:00:20 PM
SubDirectory	LB135025	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	LB135025BL	LB135025BL	MB	03/13/25 16:00		jignesh	OK
2	Q1505-31	PT-VSOL-WP	SAM	03/13/25 16:00		jignesh	OK

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Instrument ID: WC SC-3

Daily Analysis Runlog For Sequence/QCBatch ID # LB135026

Review By	jignesh	Review On	3/14/2025 3:58:51 PM
Supervise By	Iwona	Supervise On	4/9/2025 4:00:10 PM
SubDirectory	LB135026	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	LB135026BL	LB135026BL	MB	03/13/25 16:00		jignesh	OK
2	Q1505-32	PT-VSOL-WP	SAM	03/13/25 16:00		jignesh	OK

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Instrument ID: WC SC-3

Daily Analysis Runlog For Sequence/QCBatch ID # LB135027

Review By	jignesh	Review On	3/14/2025 10:47:19 AM
Supervise By	Iwona	Supervise On	3/14/2025 1:47:18 PM
SubDirectory	LB135027	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	W3177,M6069,EP2593,WP110826,NA,NA,WP100827,NA,WP100828

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	LB135027BL	LB135027BL	MB	03/14/25 10:00		jignesh	OK
2	LB135027BS	LB135027BS	LCS	03/14/25 10:00		jignesh	OK
3	Q1505-17	PT-ORG1L-WP	SAM	03/14/25 10:00		jignesh	OK
4	Q1539-01	TAPIAL3-MW03D-031	SAM	03/14/25 10:00		jignesh	OK
5	Q1539-02	TAPFTA-MW01I-0310	SAM	03/14/25 10:00		jignesh	OK
6	Q1567-01	EFFLUENT	SAM	03/14/25 10:00		jignesh	OK
7	Q1567-02	Q1567-01MS	MS	03/14/25 10:00		jignesh	OK
8	Q1567-03	Q1567-01MSD	MSD	03/14/25 10:00		jignesh	OK

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Instrument ID: WC SC-3

Daily Analysis Runlog For Sequence/QCBatch ID # LB135028

Review By	jignesh	Review On	3/14/2025 11:04:19 AM
Supervise By	Iwona	Supervise On	3/14/2025 1:47:03 PM
SubDirectory	LB135028	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	W3177,M6069,EP2593,WP110826,W3079,NA,WP100827,WP100828,NA

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	LB135028BL	LB135028BL	MB	03/14/25 10:30		jignesh	OK
2	LB135028BS	LB135028BS	LCS	03/14/25 10:30		jignesh	OK
3	LB135028BSD	LB135028BSD	LCSD	03/14/25 10:30		jignesh	OK
4	Q1505-18	RR-TPH1L-WP	SAM	03/14/25 10:30		jignesh	OK
5	Q1551-01	GRAB	SAM	03/14/25 10:30		jignesh	OK

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Instrument ID: SPECTROPHOTOMETER-1

Daily Analysis Runlog For Sequence/QCBatch ID # LB135037

Review By	Niha	Review On	3/17/2025 1:03:07 PM
Supervise By	Iwona	Supervise On	3/18/2025 4:49:36 PM
SubDirectory	LB135037	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	WP112304,WP112303,WP112302,WP112301,WP112300,WP112299,WP112305,WP110380,WP112308,WP111415,V

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	CAL1	CAL1	CAL	03/14/25 15:15		Niha	OK
2	CAL2	CAL2	CAL	03/14/25 15:15		Niha	OK
3	CAL3	CAL3	CAL	03/14/25 15:16		Niha	OK
4	CAL4	CAL4	CAL	03/14/25 15:16		Niha	OK
5	CAL5	CAL5	CAL	03/14/25 15:17		Niha	OK
6	CAL6	CAL6	CAL	03/14/25 15:17		Niha	OK
7	ICV	ICV	ICV	03/14/25 15:18		Niha	OK
8	ICB	ICB	ICB	03/14/25 15:18		Niha	OK
9	CCV1	CCV1	CCV	03/14/25 15:19		Niha	OK
10	CCB1	CCB1	CCB	03/14/25 15:19		Niha	OK
11	RL Check	RL Check	SAM	03/14/25 15:20		Niha	OK
12	LB135037BL	LB135037BL	MB	03/14/25 15:20		Niha	OK
13	LB135037BS	LB135037BS	LCS	03/14/25 15:21		Niha	OK
14	Q1505-12DL	PT-NUT1-WPDL	SAM	03/14/25 15:21		Niha	OK
15	Q1567-01	EFFLUENT	SAM	03/14/25 15:22		Niha	OK
16	Q1567-01DUP	EFFLUENTDUP	DUP	03/14/25 15:22		Niha	OK
17	Q1567-01MS	EFFLUENTMS	MS	03/14/25 15:23		Niha	OK
18	Q1567-01MSD	EFFLUENTMSD	MSD	03/14/25 15:23		Niha	OK

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Instrument ID: SPECTROPHOTOMETER-1

Daily Analysis Runlog For Sequence/QCBatch ID # LB135037

Review By	Niha	Review On	3/17/2025 1:03:07 PM
Supervise By	Iwona	Supervise On	3/18/2025 4:49:36 PM
SubDirectory	LB135037	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	WP112304,WP112303,WP112302,WP112301,WP112300,WP112299,WP112305,WP110380,WP112308,WP111415,V

19	CCV2	CCV2	CCV	03/14/25 15:24		Niha	OK
20	CCB2	CCB2	CCB	03/14/25 15:24		Niha	OK

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Instrument ID: SPECTROPHOTOMETER-1

Daily Analysis Runlog For Sequence/QCBatch ID # LB135041

Review By	Niha	Review On	3/17/2025 1:02:32 PM
Supervise By	Iwona	Supervise On	3/18/2025 4:48:37 PM
SubDirectory	LB135041	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	WP112304,WP112303,WP112302,WP112301,WP112300,WP112299,WP112305,WP110380,WP112308,WP111415,V

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	CAL1	CAL1	CAL	03/14/25 14:10		Niha	OK
2	CAL2	CAL2	CAL	03/14/25 14:10		Niha	OK
3	CAL3	CAL3	CAL	03/14/25 14:11		Niha	OK
4	CAL4	CAL4	CAL	03/14/25 14:11		Niha	OK
5	CAL5	CAL5	CAL	03/14/25 14:12		Niha	OK
6	CAL6	CAL6	CAL	03/14/25 14:12		Niha	OK
7	ICV	ICV	ICV	03/14/25 14:13		Niha	OK
8	ICB	ICB	ICB	03/14/25 14:13		Niha	OK
9	CCV1	CCV1	CCV	03/14/25 14:14		Niha	OK
10	CCB1	CCB1	CCB	03/14/25 14:14		Niha	OK
11	RL Check	RL Check	SAM	03/14/25 14:15		Niha	OK
12	PB167144BL	PB167144BL	MB	03/14/25 14:15		Niha	OK
13	PB167144BS	PB167144BS	LCS	03/14/25 14:16		Niha	OK
14	Q1505-13	PT-NUT2-WP	SAM	03/14/25 14:16		Niha	OK
15	Q1567-01	EFFLUENT	SAM	03/14/25 14:17		Niha	OK
16	Q1567-01DUP	EFFLUENTDUP	DUP	03/14/25 14:17		Niha	OK
17	Q1567-01MS	EFFLUENTMS	MS	03/14/25 14:18		Niha	OK
18	Q1567-01MSD	EFFLUENTMSD	MSD	03/14/25 14:18		Niha	OK

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Instrument ID: SPECTROPHOTOMETER-1

Daily Analysis Runlog For Sequence/QCBatch ID # LB135041

Review By	Niha	Review On	3/17/2025 1:02:32 PM
Supervise By	Iwona	Supervise On	3/18/2025 4:48:37 PM
SubDirectory	LB135041	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	WP112304,WP112303,WP112302,WP112301,WP112300,WP112299,WP112305,WP110380,WP112308,WP111415,V

19	Q1505-13DL	PT-NUT2-WPDL	SAM	03/14/25 14:19		Niha	OK
20	CCV2	CCV2	CCV	03/14/25 14:19		Niha	OK
21	CCB2	CCB2	CCB	03/14/25 14:20		Niha	OK

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Instrument ID: WC CONDUCTANCE METER-1

Daily Analysis Runlog For Sequence/QCBatch ID # LB135057

Review By	Niha	Review On	3/17/2025 3:42:37 PM
Supervise By	Iwona	Supervise On	3/17/2025 4:11:13 PM
SubDirectory	LB135057	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	WP111962

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	LB135057BL	LB135057BL	MB	03/13/25 13:00		Niha	OK
2	LB135057BS	LB135057BS	LCS	03/13/25 13:05		Niha	OK
3	Q1505-07	PT-COND-WP	SAM	03/13/25 13:10		Niha	OK
4	Q1505-07DUP	PT-COND-WPDUP	DUP	03/13/25 13:15		Niha	OK

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Instrument ID: WC CONDUCTANCE METER-1

Daily Analysis Runlog For Sequence/QCBatch ID # LB135058

Review By	Niha	Review On	3/17/2025 3:41:27 PM
Supervise By	Iwona	Supervise On	3/17/2025 4:11:01 PM
SubDirectory	LB135058	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	WP111962

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	LB135058BL	LB135058BL	MB	03/13/25 13:00		Niha	OK
2	LB135058BS	LB135058BS	LCS	03/13/25 13:05		Niha	OK
3	Q1505-08	PT-COND-WP	SAM	03/13/25 13:10		Niha	OK
4	Q1505-08DUP	PT-COND-WPDUP	DUP	03/13/25 13:15		Niha	OK

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Instrument ID: KONELAB

Daily Analysis Runlog For Sequence/QCBatch ID # LB135060

Review By	rubina	Review On	3/18/2025 1:30:40 PM
Supervise By	Iwona	Supervise On	3/18/2025 1:46:19 PM
SubDirectory	LB135060	Test	Phenolics

STD. NAME	STD REF.#
ICAL Standard	WP112320
ICV Standard	WP112322
CCV Standard	WP112321
ICSA Standard	N/A
CRI Standard	N/A
LCS Standard	WP112234
Chk Standard	WP110020,WP110021,WP112323

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	0.00PPM	0.00PPM	CAL1	03/17/25 14:07		rubina	OK
2	0.05PPM	0.05PPM	CAL2	03/17/25 14:07		rubina	OK
3	0.1PPM	0.1PPM	CAL3	03/17/25 14:07		rubina	OK
4	0.25PPM	0.25PPM	CAL4	03/17/25 14:07		rubina	OK
5	0.50PPM	0.50PPM	CAL5	03/17/25 14:07		rubina	OK
6	1.0PPM	1.0PPM	CAL6	03/17/25 14:07		rubina	OK
7	2.0PPM	2.0PPM	CAL7	03/17/25 14:07		rubina	OK
8	ICV1	ICV1	ICV	03/17/25 15:23		rubina	OK
9	ICB1	ICB1	ICB	03/17/25 15:23		rubina	OK
10	CCV1	CCV1	CCV	03/17/25 15:23		rubina	OK
11	CCB1	CCB1	CCB	03/17/25 15:23		rubina	OK
12	PB167174BL	PB167174BL	MB	03/17/25 15:23		rubina	OK
13	PB167174BS	PB167174BS	LCS	03/17/25 15:23		rubina	OK
14	Q1505-26	PT-PHEN-WP	SAM	03/17/25 15:33		rubina	OK
15	CCV2	CCV2	CCV	03/17/25 15:33		rubina	OK
16	CCB2	CCB2	CCB	03/17/25 15:33		rubina	OK

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Instrument ID: KONELAB

Daily Analysis Runlog For Sequence/QCBatch ID # LB135061

Review By	rubina	Review On	3/18/2025 1:31:48 PM
Supervise By	Iwona	Supervise On	3/18/2025 1:46:25 PM
SubDirectory	LB135061	Test	Phenolics

STD. NAME	STD REF.#
ICAL Standard	WP112320
ICV Standard	WP112322
CCV Standard	WP112321
ICSA Standard	N/A
CRI Standard	N/A
LCS Standard	WP112234
Chk Standard	WP110020,WP110021,WP112323

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	0.00PPM	0.00PPM	CAL1	03/17/25 14:07		rubina	OK
2	0.05PPM	0.05PPM	CAL2	03/17/25 14:07		rubina	OK
3	0.1PPM	0.1PPM	CAL3	03/17/25 14:07		rubina	OK
4	0.25PPM	0.25PPM	CAL4	03/17/25 14:07		rubina	OK
5	0.50PPM	0.50PPM	CAL5	03/17/25 14:07		rubina	OK
6	1.0PPM	1.0PPM	CAL6	03/17/25 14:07		rubina	OK
7	2.0PPM	2.0PPM	CAL7	03/17/25 14:07		rubina	OK
8	ICV1	ICV1	ICV	03/17/25 16:22		rubina	OK
9	ICB1	ICB1	ICB	03/17/25 16:22		rubina	OK
10	CCV1	CCV1	CCV	03/17/25 16:22		rubina	OK
11	CCB1	CCB1	CCB	03/17/25 16:22		rubina	OK
12	PB167175BL	PB167175BL	MB	03/17/25 16:22		rubina	OK
13	PB167175BS	PB167175BS	LCS	03/17/25 16:22		rubina	OK
14	Q1505-25	PT-PHEN-WP	SAM	03/17/25 16:30		rubina	OK
15	CCV2	CCV2	CCV	03/17/25 16:30		rubina	OK
16	CCB2	CCB2	CCB	03/17/25 16:30		rubina	OK

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Instrument ID: TITRATOR

Daily Analysis Runlog For Sequence/QCBatch ID # LB135065

Review By	Niha	Review On	3/19/2025 9:01:06 AM
Supervise By	Iwona	Supervise On	3/19/2025 9:31:24 AM
SubDirectory	LB135065	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	WP112337
Chk Standard	W3150,W3071,W3107

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	LB135065BLW	LB135065BLW	MB	03/18/25 09:30	pH=3.87	Niha	OK
2	LB135065BSW	LB135065BSW	LCS	03/18/25 09:35	pH=4.40	Niha	OK
3	Q1505-05	PT-MIN1-WP	SAM	03/18/25 09:40	pH=4.46	Niha	OK
4	Q1525-01	MW10	SAM	03/18/25 09:45	pH=4.46	Niha	OK
5	Q1525-01DUP	MW10DUP	DUP	03/18/25 09:50	pH=4.45	Niha	OK

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Instrument ID: KONELAB

Daily Analysis Runlog For Sequence/QCBatch ID # LB135072

Review By	Niha	Review On	3/19/2025 8:54:00 AM
Supervise By	Iwona	Supervise On	3/19/2025 9:30:57 AM
SubDirectory	LB135072	Test	Cyanide

STD. NAME	STD REF.#
ICAL Standard	WP112325,WP112326,WP112327,WP112328,WP112329,WP112330,WP112331
ICV Standard	W3012
CCV Standard	WP112326
ICSA Standard	N/A
CRI Standard	N/A
LCS Standard	WP111296
Chk Standard	WP111035,WP110103,WP112332

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	0.0PPBCN	0.0PPBCN	CAL1	03/18/25 10:40		Niha	OK
2	5.0PPBCN	5.0PPBCN	CAL2	03/18/25 10:40		Niha	OK
3	10PPBCN	10PPBCN	CAL3	03/18/25 10:40		Niha	OK
4	50PPBCN	50PPBCN	CAL4	03/18/25 10:40		Niha	OK
5	100PPBCN	100PPBCN	CAL5	03/18/25 10:40		Niha	OK
6	250PPBCN	250PPBCN	CAL6	03/18/25 10:40		Niha	OK
7	500PPBCN	500PPBCN	CAL7	03/18/25 10:40		Niha	OK
8	ICV1	ICV1	ICV	03/18/25 12:21		Niha	OK
9	ICB1	ICB1	ICB	03/18/25 12:21		Niha	OK
10	CCV1	CCV1	CCV	03/18/25 12:21		Niha	OK
11	CCB1	CCB1	CCB	03/18/25 12:21		Niha	OK
12	PB167191BL	PB167191BL	MB	03/18/25 12:21		Niha	OK
13	PB167191BS	PB167191BS	LCS	03/18/25 12:22		Niha	OK
14	LOWPB167191	LOWPB167191	SAM	03/18/25 12:29		Niha	OK
15	HIGHPB167191	HIGHPB167191	SAM	03/18/25 12:29		Niha	OK
16	Q1505-23	PT-CN-WP	SAM	03/18/25 12:29		Niha	OK
17	CCV2	CCV2	CCV	03/18/25 12:29		Niha	OK
18	CCB2	CCB2	CCB	03/18/25 12:32		Niha	OK

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Instrument ID: KONELAB

Daily Analysis Runlog For Sequence/QCBatch ID # LB135073

Review By	Niha	Review On	3/19/2025 8:58:07 AM
Supervise By	Iwona	Supervise On	3/19/2025 9:31:07 AM
SubDirectory	LB135073	Test	Cyanide

STD. NAME	STD REF.#
ICAL Standard	WP112325,WP112326,WP112327,WP112328,WP112329,WP112330,WP112331
ICV Standard	W3012
CCV Standard	WP112326
ICSA Standard	N/A
CRI Standard	N/A
LCS Standard	WP111296
Chk Standard	WP111035,WP110103,WP112332

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	0.0PPBCN	0.0PPBCN	CAL1	03/18/25 10:40		Niha	OK
2	5.0PPBCN	5.0PPBCN	CAL2	03/18/25 10:40		Niha	OK
3	10PPBCN	10PPBCN	CAL3	03/18/25 10:40		Niha	OK
4	50PPBCN	50PPBCN	CAL4	03/18/25 10:40		Niha	OK
5	100PPBCN	100PPBCN	CAL5	03/18/25 10:40		Niha	OK
6	250PPBCN	250PPBCN	CAL6	03/18/25 10:40		Niha	OK
7	500PPBCN	500PPBCN	CAL7	03/18/25 10:40		Niha	OK
8	ICV1	ICV1	ICV	03/18/25 13:24		Niha	OK
9	ICB1	ICB1	ICB	03/18/25 13:24		Niha	OK
10	CCV1	CCV1	CCV	03/18/25 13:24		Niha	OK
11	CCB1	CCB1	CCB	03/18/25 13:24		Niha	OK
12	PB167195BL	PB167195BL	MB	03/18/25 13:24		Niha	OK
13	PB167195BS	PB167195BS	LCS	03/18/25 13:25		Niha	OK
14	Q1505-24	PT-CN-WP	SAM	03/18/25 13:32		Niha	OK
15	CCV2	CCV2	CCV	03/18/25 13:32		Niha	OK
16	CCB2	CCB2	CCB	03/18/25 13:35		Niha	OK

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Instrument ID: KONELAB

Daily Analysis Runlog For Sequence/QCBatch ID # LB135075

Review By	Niha	Review On	3/19/2025 8:59:48 AM
Supervise By	Iwona	Supervise On	3/19/2025 9:31:14 AM
SubDirectory	LB135075	Test	Cyanide

STD. NAME	STD REF.#
ICAL Standard	WP112325,WP112326,WP112327,WP112328,WP112329,WP112330,WP112331
ICV Standard	W3012
CCV Standard	WP112326
ICSA Standard	N/A
CRI Standard	N/A
LCS Standard	WP111296
Chk Standard	WP111035,WP110103,WP112332

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	0.0PPBCN	0.0PPBCN	CAL1	03/18/25 10:40		Niha	OK
2	5.0PPBCN	5.0PPBCN	CAL2	03/18/25 10:40		Niha	OK
3	10PPBCN	10PPBCN	CAL3	03/18/25 10:40		Niha	OK
4	50PPBCN	50PPBCN	CAL4	03/18/25 10:40		Niha	OK
5	100PPBCN	100PPBCN	CAL5	03/18/25 10:40		Niha	OK
6	250PPBCN	250PPBCN	CAL6	03/18/25 10:40		Niha	OK
7	500PPBCN	500PPBCN	CAL7	03/18/25 10:40		Niha	OK
8	ICV1	ICV1	ICV	03/18/25 14:14		Niha	OK
9	ICB1	ICB1	ICB	03/18/25 14:14		Niha	OK
10	CCV1	CCV1	CCV	03/18/25 14:14		Niha	OK
11	CCB1	CCB1	CCB	03/18/25 14:14		Niha	OK
12	RL	RL	SAM	03/18/25 14:14		Niha	OK
13	PB167192BL	PB167192BL	MB	03/18/25 14:21		Niha	OK
14	PB167192BS	PB167192BS	LCS	03/18/25 14:21		Niha	OK
15	MIDPB167192	MIDPB167192	SAM	03/18/25 14:21		Niha	OK
16	Q1505-22	PT-CN-WP	SAM	03/18/25 14:22		Niha	OK
17	Q1583-01	EFF-WASTE WATER	SAM	03/18/25 14:22		Niha	OK
18	Q1583-01DUP	EFF-WASTE WATERI	DUP	03/18/25 14:29		Niha	OK

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Instrument ID: KONELAB

Daily Analysis Runlog For Sequence/QCBatch ID # LB135075

Review By	Niha	Review On	3/19/2025 8:59:48 AM
Supervise By	Iwona	Supervise On	3/19/2025 9:31:14 AM
SubDirectory	LB135075	Test	Cyanide

STD. NAME	STD REF.#
ICAL Standard	WP112325,WP112326,WP112327,WP112328,WP112329,WP112330,WP112331
ICV Standard	W3012
CCV Standard	WP112326
ICSA Standard	N/A
CRI Standard	N/A
LCS Standard	WP111296
Chk Standard	WP111035,WP110103,WP112332

19	Q1583-01MS	EFF-WASTE WATERI	MS	03/18/25 14:29		Niha	OK
20	Q1583-01MSD	EFF-WASTE WATERI	MSD	03/18/25 14:29		Niha	OK
21	CCV2	CCV2	CCV	03/18/25 14:33		Niha	OK
22	CCB2	CCB2	CCB	03/18/25 14:33		Niha	OK

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Instrument ID: TOC

Daily Analysis Runlog For Sequence/QCBatch ID # LB135085

Review By	rubina	Review On	3/21/2025 3:04:27 PM
Supervise By	Iwona	Supervise On	3/21/2025 3:04:39 PM
SubDirectory	LB135085	Test	TOC

STD. NAME	STD REF.#
ICAL Standard	WP112286,WP112287,WP112288,WP112289,WP112290,WP112291,WP112292
ICV Standard	WP112293
CCV Standard	WP112291
ICSA Standard	N/A
CRI Standard	N/A
LCS Standard	WP112293
Chk Standard	WP112294,WP112295,WP109953

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	0.0PPM	0.0PPM	CAL1	03/11/25 10:00		NF IZ	OK
2	0.5PPM	0.5PPM	CAL2	03/11/25 10:23		NF IZ	OK
3	1.0PPM	1.0PPM	CAL3	03/11/25 10:46		NF IZ	OK
4	2.0PPM	2.0PPM	CAL4	03/11/25 11:10		NF IZ	OK
5	5.0PPM	5.0PPM	CAL5	03/11/25 11:33		NF IZ	OK
6	10.0PPM	10.0PPM	CAL6	03/11/25 11:58		NF IZ	OK
7	20.0PPM	20.0PPM	CAL7	03/11/25 12:24		NF IZ	OK
8	ICV1	ICV1	ICV	03/11/25 12:48		NF IZ	OK
9	ICB1	ICB1	ICB	03/11/25 13:11		NF IZ	OK
10	IC-20	IC-20	SAM	03/11/25 13:34		NF IZ	OK
11	IC-R	IC-R	SAM	03/11/25 13:58		NF IZ	OK
12	CCV1	CCV1	CCV	03/19/25 09:40		NF IZ	OK
13	CCB1	CCB1	CCB	03/19/25 10:03		NF IZ	OK
14	LB135085BLW	LB135085BLW	MB	03/19/25 10:27		NF IZ	OK
15	LB135085BSW	LB135085BSW	LCS	03/19/25 10:52		NF IZ	OK
16	Q1505-04	PT-DEM-WP	SAM	03/19/25 11:24	High	NF IZ	Dilution
17	Q1505-04DL	PT-DEM-WPDL	SAM	03/19/25 11:49	Report 5X	NF IZ	Confirms
18	Q1588-01	TAPFTA-MW01D-031	SAM	03/19/25 12:15		NF IZ	OK

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Instrument ID: TOC

Daily Analysis Runlog For Sequence/QCBatch ID # LB135085

Review By	rubina	Review On	3/21/2025 3:04:27 PM
Supervise By	Iwona	Supervise On	3/21/2025 3:04:39 PM
SubDirectory	LB135085	Test	TOC

STD. NAME	STD REF.#
ICAL Standard	WP112286,WP112287,WP112288,WP112289,WP112290,WP112291,WP112292
ICV Standard	WP112293
CCV Standard	WP112291
ICSA Standard	N/A
CRI Standard	N/A
LCS Standard	WP112293
Chk Standard	WP112294,WP112295,WP109953

19	Q1588-01MS	TAPFTA-MW01D-031	MS	03/19/25 13:07		NF IZ	OK
20	Q1588-01MSD	TAPFTA-MW01D-031	MSD	03/19/25 13:33		NF IZ	OK
21	Q1604-02	FRAC-TANK-N45878	SAM	03/19/25 14:00	High	NF IZ	Dilution
22	Q1604-02DL	FRAC-TANK-N45878[	SAM	03/19/25 14:28	Report 2X	NF IZ	Confirms
23	CCV2	CCV2	CCV	03/19/25 14:59		NF IZ	OK
24	CCB2	CCB2	CCB	03/19/25 15:22		NF IZ	OK

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Instrument ID: SPECTROPHOTOMETER-1

Daily Analysis Runlog For Sequence/QCBatch ID # LB135087

Review By	Niha	Review On	3/19/2025 4:43:29 PM
Supervise By	Iwona	Supervise On	3/20/2025 12:27:37 PM
SubDirectory	LB135087	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	WP112352,WP112347,WP112348,WP112349,WP112346,WP112350,WP112351,W3147

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	CAL1	CAL1	CAL	03/19/25 10:45		Niha	OK
2	CAL2	CAL2	CAL	03/19/25 10:48		Niha	OK
3	CAL3	CAL3	CAL	03/19/25 10:51		Niha	OK
4	CAL4	CAL4	CAL	03/19/25 10:54		Niha	OK
5	CAL5	CAL5	CAL	03/19/25 10:57		Niha	OK
6	CAL6	CAL6	CAL	03/19/25 11:00		Niha	OK
7	ICV	ICV	ICV	03/19/25 11:03		Niha	OK
8	ICB	ICB	ICB	03/19/25 11:06		Niha	OK
9	CCV1	CCV1	CCV	03/19/25 11:09		Niha	OK
10	CCB1	CCB1	CCB	03/19/25 11:12		Niha	OK
11	LB135087BL	LB135087BL	MB	03/19/25 11:15		Niha	OK
12	LB135087BS	LB135087BS	LCS	03/19/25 11:18		Niha	OK
13	Q1505-19	PT-CL-WP	SAM	03/19/25 11:21		Niha	OK
14	CCV2	CCV2	CCV	03/19/25 11:24		Niha	OK
15	CCB2	CCB2	CCB	03/19/25 11:27		Niha	OK

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Instrument ID: NESSLER TUBES

Daily Analysis Runlog For Sequence/QCBatch ID # LB135088

Review By	Niha	Review On	3/19/2025 11:51:38 AM
Supervise By	Iwona	Supervise On	3/19/2025 1:43:11 PM
SubDirectory	LB135088	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	LB135088BL	LB135088BL	MB	03/19/25 09:30		Niha	OK
2	Q1505-27	PT-COL-WP	SAM	03/19/25 09:35		Niha	OK

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Instrument ID: SPECTROPHOTOMETER-1

Daily Analysis Runlog For Sequence/QCBatch ID # LB135094

Review By	rubina	Review On	3/20/2025 12:29:51 PM
Supervise By	Iwona	Supervise On	3/20/2025 1:30:11 PM
SubDirectory	LB135094	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	WP112367,WP112366,WP112364,WP112363,WP112371,WP111959,WP112365,WP112370,WP112368,WP112369

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	CAL1	CAL1	CAL	03/19/25 16:40		rubina	OK
2	CAL2	CAL2	CAL	03/19/25 16:41		rubina	OK
3	CAL3	CAL3	CAL	03/19/25 16:42		rubina	OK
4	CAL4	CAL4	CAL	03/19/25 16:43		rubina	OK
5	CAL5	CAL5	CAL	03/19/25 16:44		rubina	OK
6	CAL6	CAL6	CAL	03/19/25 16:45		rubina	OK
7	CAL7	CAL7	CAL	03/19/25 16:46		rubina	OK
8	ICV	ICV	ICV	03/19/25 16:47		rubina	OK
9	ICB	ICB	ICB	03/19/25 16:48		rubina	OK
10	CCV1	CCV1	CCV	03/19/25 16:49		rubina	OK
11	CCB1	CCB1	CCB	03/19/25 16:50		rubina	OK
12	RL Check	RL Check	SAM	03/19/25 16:51		rubina	OK
13	LB135094BL	LB135094BL	MB	03/19/25 16:52		rubina	OK
14	LB135094BS	LB135094BS	LCS	03/19/25 16:53		rubina	OK
15	Q1505-02	PT-CR6-WP	SAM	03/19/25 16:54		rubina	OK
16	Q1604-02	FRAC-TANK-N45878	SAM	03/19/25 16:55		rubina	OK
17	Q1604-02DUP	FRAC-TANK-N45878	DUP	03/19/25 16:56		rubina	OK
18	Q1604-02MS	FRAC-TANK-N45878	MS	03/19/25 16:57	1ML WP111315+99.0ML SAMPLE	rubina	OK

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Instrument ID: SPECTROPHOTOMETER-1

Daily Analysis Runlog For Sequence/QCBatch ID # LB135094

Review By	rubina	Review On	3/20/2025 12:29:51 PM
Supervise By	Iwona	Supervise On	3/20/2025 1:30:11 PM
SubDirectory	LB135094	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	WP112367,WP112366,WP112364,WP112363,WP112371,WP111959,WP112365,WP112370,WP112368,WP112369

19	Q1604-02MSD	FRAC-TANK-N45878I	MSD	03/19/25 16:58	1ML WP111315+99.0ML SAMPLE	rubina	OK
20	Q1606-11	N48965	SAM	03/19/25 16:59		rubina	OK
21	CCV2	CCV2	CCV	03/19/25 17:00		rubina	OK
22	CCB2	CCB2	CCB	03/19/25 17:01		rubina	OK

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Instrument ID: KONELAB

Daily Analysis Runlog For Sequence/QCBatch ID # LB135095

Review By	rubina	Review On	3/20/2025 1:13:44 PM
Supervise By	Iwona	Supervise On	3/20/2025 2:30:24 PM
SubDirectory	LB135095	Test	TKN

STD. NAME	STD REF.#
ICAL Standard	WP112338
ICV Standard	WP112340
CCV Standard	WP112339
ICSA Standard	N/A
CRI Standard	N/A
LCS Standard	WP112341
Chk Standard	WP112163,WP111745,WP111385,WP111660

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	0.0PPM	0.0PPM	CAL1	03/19/25 14:23		rubina	OK
2	0.5PPM	0.5PPM	CAL2	03/19/25 14:23		rubina	OK
3	1.0PPM	1.0PPM	CAL3	03/19/25 14:23		rubina	OK
4	2.5PPM	2.5PPM	CAL4	03/19/25 14:23		rubina	OK
5	5.0PPM	5.0PPM	CAL5	03/19/25 14:23		rubina	OK
6	6.7PPM	6.7PPM	CAL6	03/19/25 14:23		rubina	OK
7	10.0PPM	10.0PPM	CAL7	03/19/25 14:23		rubina	OK
8	ICV1	ICV1	ICV	03/19/25 15:10		rubina	OK
9	ICB1	ICB1	ICB	03/19/25 15:10		rubina	OK
10	CCV1	CCV1	CCV	03/19/25 15:10		rubina	OK
11	CCB1	CCB1	CCB	03/19/25 15:10		rubina	OK
12	RL	RL	SAM	03/19/25 15:10		rubina	OK
13	PB167190BL	PB167190BL	MB	03/19/25 15:10		rubina	OK
14	PB167190BS	PB167190BS	LCS	03/19/25 15:20		rubina	OK
15	Q1505-13	PT-NUT2-WP	SAM	03/19/25 15:20	High	rubina	Dilution
16	CCV2	CCV2	CCV	03/19/25 15:37		rubina	OK
17	CCB2	CCB2	CCB	03/19/25 15:37		rubina	OK
18	Q1505-13DL	PT-NUT2-WPDL	SAM	03/19/25 16:13	Report 2X	rubina	Confirms

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Instrument ID: KONELAB

Daily Analysis Runlog For Sequence/QCBatch ID # LB135095

Review By	rubina	Review On	3/20/2025 1:13:44 PM
Supervise By	lwona	Supervise On	3/20/2025 2:30:24 PM
SubDirectory	LB135095	Test	TKN

STD. NAME	STD REF.#
ICAL Standard	WP112338
ICV Standard	WP112340
CCV Standard	WP112339
ICSA Standard	N/A
CRI Standard	N/A
LCS Standard	WP112341
Chk Standard	WP112163,WP111745,WP111385,WP111660

19	CCV3	CCV3	CCV	03/19/25 16:13		rubina	OK
20	CCB3	CCB3	CCB	03/19/25 16:13		rubina	OK

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Instrument ID: TITRAMETRIC

Daily Analysis Runlog For Sequence/QCBatch ID # LB135103

Review By	rubina	Review On	3/20/2025 1:27:32 PM
Supervise By	Iwona	Supervise On	3/20/2025 1:28:21 PM
SubDirectory	LB135103	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,W3149

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	PB167199BL	PB167199BL	MB	03/20/25 11:10		rubina	OK
2	PB167199BS	PB167199BS	LCS	03/20/25 11:13		rubina	OK
3	Q1505-28	PT-S2-WP	SAM	03/20/25 11:16		rubina	OK

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Instrument ID: TITRAMETRIC

Daily Analysis Runlog For Sequence/QCBatch ID # LB135104

Review By	rubina	Review On	3/20/2025 1:28:09 PM
Supervise By	Iwona	Supervise On	3/20/2025 1:28:39 PM
SubDirectory	LB135104	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,W3149

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	PB167198BL	PB167198BL	MB	03/20/25 11:20		rubina	OK
2	PB167198BS	PB167198BS	LCS	03/20/25 11:23		rubina	OK
3	Q1505-29	PT-S2-WP	SAM	03/20/25 11:26		rubina	OK

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Instrument ID: SPECTROPHOTOMETER-1

Daily Analysis Runlog For Sequence/QCBatch ID # LB135113

Review By	rubina	Review On	3/21/2025 9:18:59 AM
Supervise By	Iwona	Supervise On	3/21/2025 9:43:47 AM
SubDirectory	LB135113	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	WP112379,WP112378,WP112376,WP112375,WP112371,WP110380,WP112377,WP112382,WP112380,WP112381

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	CAL1	CAL1	CAL	03/20/25 15:00		rubina	OK
2	CAL2	CAL2	CAL	03/20/25 15:01		rubina	OK
3	CAL3	CAL3	CAL	03/20/25 15:02		rubina	OK
4	CAL4	CAL4	CAL	03/20/25 15:03		rubina	OK
5	CAL5	CAL5	CAL	03/20/25 15:04		rubina	OK
6	CAL6	CAL6	CAL	03/20/25 15:05		rubina	OK
7	CAL7	CAL7	CAL	03/20/25 15:06		rubina	OK
8	ICV	ICV	ICV	03/20/25 15:07		rubina	OK
9	ICB	ICB	ICB	03/20/25 15:08		rubina	OK
10	CCV1	CCV1	CCV	03/20/25 15:09		rubina	OK
11	CCB1	CCB1	CCB	03/20/25 15:10		rubina	OK
12	RL Check	RL Check	SAM	03/20/25 15:11		rubina	OK
13	LB135113BL	LB135113BL	MB	03/20/25 15:12		rubina	OK
14	LB135113BS	LB135113BS	LCS	03/20/25 15:13		rubina	OK
15	Q1505-01	PT-CR6-WP	SAM	03/20/25 15:14		rubina	OK
16	Q1618-01	TP20250320-01	SAM	03/20/25 15:15		rubina	OK
17	Q1618-01DUP	TP20250320-01DUP	DUP	03/20/25 15:16		rubina	OK
18	Q1618-01MS	TP20250320-01MS	MS	03/20/25 15:17	1ML WP111315+99.0ML SAMPLE	rubina	OK

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Instrument ID: SPECTROPHOTOMETER-1

Daily Analysis Runlog For Sequence/QCBatch ID # LB135113

Review By	rubina	Review On	3/21/2025 9:18:59 AM
Supervise By	lwona	Supervise On	3/21/2025 9:43:47 AM
SubDirectory	LB135113	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	WP112379,WP112378,WP112376,WP112375,WP112371,WP110380,WP112377,WP112382,WP112380,WP112381

19	Q1618-01MSD	TP20250320-01MSD	MSD	03/20/25 15:18	1ML WP111315+99.0ML SAMPLE	rubina	OK
20	Q1618-02	TP20250320-02	SAM	03/20/25 15:19		rubina	OK
21	Q1618-02DL	TP20250320-02DL	SAM	03/20/25 15:20		rubina	OK
22	CCV2	CCV2	CCV	03/20/25 15:21		rubina	OK
23	CCB2	CCB2	CCB	03/20/25 15:22		rubina	OK

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Instrument ID: TOC

Daily Analysis Runlog For Sequence/QCBatch ID # LB135125

Review By	rubina	Review On	3/21/2025 3:04:45 PM
Supervise By	Iwona	Supervise On	3/21/2025 3:05:21 PM
SubDirectory	LB135125	Test	TOC

STD. NAME	STD REF.#
ICAL Standard	WP112286,WP112287,WP112288,WP112289,WP112290,WP112291,WP112292
ICV Standard	WP112293
CCV Standard	WP112291
ICSA Standard	N/A
CRI Standard	N/A
LCS Standard	WP112293
Chk Standard	WP112294,WP112295,WP109953

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	0.0PPM	0.0PPM	CAL1	03/11/25 10:00		NF IZ	OK
2	0.5PPM	0.5PPM	CAL2	03/11/25 10:23		NF IZ	OK
3	1.0PPM	1.0PPM	CAL3	03/11/25 10:46		NF IZ	OK
4	2.0PPM	2.0PPM	CAL4	03/11/25 11:10		NF IZ	OK
5	5.0PPM	5.0PPM	CAL5	03/11/25 11:33		NF IZ	OK
6	10.0PPM	10.0PPM	CAL6	03/11/25 11:58		NF IZ	OK
7	20.0PPM	20.0PPM	CAL7	03/11/25 12:24		NF IZ	OK
8	ICV1	ICV1	ICV	03/11/25 12:48		NF IZ	OK
9	ICB1	ICB1	ICB	03/11/25 13:11		NF IZ	OK
10	IC-20	IC-20	SAM	03/11/25 13:34		NF IZ	OK
11	IC-R	IC-R	SAM	03/11/25 13:58		NF IZ	OK
12	CCV1	CCV1	CCV	03/19/25 08:16		NF IZ	OK
13	CCB1	CCB1	CCB	03/19/25 10:03		NF IZ	OK
14	LB135125BLW	LB135125BLW	MB	03/19/25 10:27		NF IZ	OK
15	LB135125BSW	LB135125BSW	LCS	03/19/25 10:52		NF IZ	OK
16	Q1505-03	PT-DEM-WP	SAM	03/19/25 11:24	High	NF IZ	Dilution
17	Q1505-03DL	PT-DEM-WPDL	SAM	03/19/25 11:49	Report 5X	NF IZ	Confirms
18	CCV2	CCV2	CCV	03/19/25 14:59		NF IZ	OK

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Instrument ID: TOC

Daily Analysis Runlog For Sequence/QCBatch ID # LB135125

Review By	rubina	Review On	3/21/2025 3:04:45 PM
Supervise By	Iwona	Supervise On	3/21/2025 3:05:21 PM
SubDirectory	LB135125	Test	TOC

STD. NAME	STD REF.#
ICAL Standard	WP112286,WP112287,WP112288,WP112289,WP112290,WP112291,WP112292
ICV Standard	WP112293
CCV Standard	WP112291
ICSA Standard	N/A
CRI Standard	N/A
LCS Standard	WP112293
Chk Standard	WP112294,WP112295,WP109953

19	CCB2	CCB2	CCB	03/19/25 15:22		NF IZ	OK

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Instrument ID: SPECTROPHOTOMETER-2

Daily Analysis Runlog For Sequence/QCBatch ID # LB135131

Review By	Iwona	Review On	3/21/2025 2:59:59 PM
Supervise By	jignesh	Supervise On	3/21/2025 3:00:34 PM
SubDirectory	LB135131	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	WP111522,WP111519,WP111517,WP111520,WP111518,WP111516,WP112412,WP112411,W3127

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	CAL1	CAL1	CAL	01/22/25 13:30		Iwona	OK
2	CAL2	CAL2	CAL	01/22/25 13:30		Iwona	OK
3	CAL3	CAL3	CAL	01/22/25 13:31		Iwona	OK
4	CAL4	CAL4	CAL	01/22/25 13:31		Iwona	OK
5	CAL5	CAL5	CAL	01/22/25 13:32		Iwona	OK
6	ICV	ICV	ICV	01/22/25 13:32		Iwona	OK
7	ICB	ICB	ICB	01/22/25 13:33		Iwona	OK
8	CCV1	CCV1	CCV	03/21/25 13:40		Iwona	OK
9	CCB1	CCB1	CCB	03/21/25 13:40		Iwona	OK
10	LB135131BL	LB135131BL	MB	03/21/25 13:41		Iwona	OK
11	LB135131BS	LB135131BS	LCS	03/21/25 13:41		Iwona	OK
12	Q1505-03	PT-DEM-WP	SAM	03/21/25 13:42		Iwona	OK
13	Q1604-02	FRAC-TANK-N45878	SAM	03/21/25 13:42		Iwona	OK
14	Q1604-02DUP	FRAC-TANK-N45878	DUP	03/21/25 13:43		Iwona	OK
15	Q1604-02MS	FRAC-TANK-N45878	MS	03/21/25 13:43		Iwona	OK
16	Q1604-02MSD	FRAC-TANK-N45878	MSD	03/21/25 13:44		Iwona	OK
17	CCV2	CCV2	CCV	03/21/25 13:44		Iwona	OK
18	CCB2	CCB2	CCB	03/21/25 13:45		Iwona	OK

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Instrument ID: WC TURBIDIMETER-1

Daily Analysis Runlog For Sequence/QCBatch ID # LB135191

Review By	Niha	Review On	3/26/2025 12:42:30 PM
Supervise By	Iwona	Supervise On	3/26/2025 1:23:01 PM
SubDirectory	LB135191	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	WP112482,WP112483,WP111691,WP112484,WP112476,WP112478,WP112473,WP112475,WP112477,WP112479,V

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	CAL1	CAL1	CAL	03/26/25 10:30		Niha	OK
2	CAL2	CAL2	CAL	03/26/25 10:33		Niha	OK
3	CAL3	CAL3	CAL	03/26/25 10:36		Niha	OK
4	CAL4	CAL4	CAL	03/26/25 10:39		Niha	OK
5	CAL5	CAL5	CAL	03/26/25 10:42		Niha	OK
6	CAL6	CAL6	CAL	03/26/25 10:45		Niha	OK
7	CAL7	CAL7	CAL	03/26/25 10:48		Niha	OK
8	CAL8	CAL8	CAL	03/26/25 10:51		Niha	OK
9	CAL9	CAL9	CAL	03/26/25 10:54		Niha	OK
10	ICV	ICV	ICV	03/26/25 10:57		Niha	OK
11	ICB	ICB	ICB	03/26/25 11:00		Niha	OK
12	CCV1	CCV1	CCV	03/26/25 11:03		Niha	OK
13	CCB1	CCB1	CCB	03/26/25 11:06		Niha	OK
14	LB135191BL	LB135191BL	MB	03/26/25 11:09		Niha	OK
15	LB135191BS	LB135191BS	LCS	03/26/25 11:12		Niha	OK
16	Q1505-05	PT-MIN1-WP	SAM	03/26/25 11:15		Niha	OK
17	Q1505-05	PT-MIN1-WP	SAM	03/26/25 11:18		Niha	OK
18	CCV2	CCV2	CCV	03/26/25 11:21		Niha	OK

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Instrument ID: WC TURBIDIMETER-1

Daily Analysis Runlog For Sequence/QCBatch ID # LB135191

Review By	Niha	Review On	3/26/2025 12:42:30 PM
Supervise By	Iwona	Supervise On	3/26/2025 1:23:01 PM
SubDirectory	LB135191	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	WP112482,WP112483,WP111691,WP112484,WP112476,WP112478,WP112473,WP112475,WP112477,WP112479,V

19	CCB2	CCB2	CCB	03/26/25 11:24		Niha	OK

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Instrument ID: WC TURBIDIMETER-1

Daily Analysis Runlog For Sequence/QCBatch ID # LB135192

Review By	Niha	Review On	3/26/2025 12:41:56 PM
Supervise By	Iwona	Supervise On	3/26/2025 1:22:50 PM
SubDirectory	LB135192	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	WP112482,WP112483,WP111386,WP112484,WP112476,WP112478,WP112473,WP112475,WP112477,WP112479,V

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	CAL1	CAL1	CAL	03/26/25 11:35		Niha	OK
2	CAL2	CAL2	CAL	03/26/25 11:38		Niha	OK
3	CAL3	CAL3	CAL	03/26/25 11:41		Niha	OK
4	CAL4	CAL4	CAL	03/26/25 11:44		Niha	OK
5	CAL5	CAL5	CAL	03/26/25 11:47		Niha	OK
6	CAL6	CAL6	CAL	03/26/25 11:50		Niha	OK
7	CAL7	CAL7	CAL	03/26/25 11:53		Niha	OK
8	CAL8	CAL8	CAL	03/26/25 11:56		Niha	OK
9	CAL9	CAL9	CAL	03/26/25 11:59		Niha	OK
10	ICV	ICV	ICV	03/26/25 12:02		Niha	OK
11	ICB	ICB	ICB	03/26/25 12:05		Niha	OK
12	CCV1	CCV1	CCV	03/26/25 12:08		Niha	OK
13	CCB1	CCB1	CCB	03/26/25 12:11		Niha	OK
14	LB135192BL	LB135192BL	MB	03/26/25 12:14		Niha	OK
15	LB135192BS	LB135192BS	LCS	03/26/25 12:17		Niha	OK
16	Q1505-06	PT-MIN1-WP	SAM	03/26/25 12:20		Niha	OK
17	Q1505-06	PT-MIN1-WP	SAM	03/26/25 12:23		Niha	OK
18	CCV2	CCV2	CCV	03/26/25 12:26		Niha	OK

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Instrument ID: WC TURBIDIMETER-1

Daily Analysis Runlog For Sequence/QCBatch ID # LB135192

Review By	Niha	Review On	3/26/2025 12:41:56 PM
Supervise By	Iwona	Supervise On	3/26/2025 1:22:50 PM
SubDirectory	LB135192	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	WP112482,WP112483,WP111386,WP112484,WP112476,WP112478,WP112473,WP112475,WP112477,WP112479,V

19	CCB2	CCB2	CCB	03/26/25 12:29		Niha	OK

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Instrument ID: WC TURBIDIMETER-1

Daily Analysis Runlog For Sequence/QCBatch ID # LB135207

Review By	Niha	Review On	3/27/2025 11:54:13 AM
Supervise By	Iwona	Supervise On	3/27/2025 3:53:58 PM
SubDirectory	LB135207	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	WP112522,WP112519,WP112518,WP112521,WP112520,W3116

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	CAL1	CAL1	CAL	03/27/25 10:36		Niha	OK
2	CAL2	CAL2	CAL	03/27/25 10:40		Niha	OK
3	CAL3	CAL3	CAL	03/27/25 10:44		Niha	OK
4	CAL4	CAL4	CAL	03/27/25 10:48		Niha	OK
5	CAL5	CAL5	CAL	03/27/25 10:52		Niha	OK
6	CAL6	CAL6	CAL	03/27/25 10:56		Niha	OK
7	ICV	ICV	ICV	03/27/25 11:00		Niha	OK
8	ICB	ICB	ICB	03/27/25 11:04		Niha	OK
9	CCV1	CCV1	CCV	03/27/25 11:08		Niha	OK
10	CCB1	CCB1	CCB	03/27/25 11:12		Niha	OK
11	LB135207BL	LB135207BL	MB	03/27/25 11:16		Niha	OK
12	Q1505-34	PT-TURB-WP	SAM	03/27/25 11:20		Niha	OK
13	CCV2	CCV2	CCV	03/27/25 11:24		Niha	OK
14	CCB2	CCB2	CCB	03/27/25 11:28		Niha	OK

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Instrument ID: WC TURBIDIMETER-1

Daily Analysis Runlog For Sequence/QCBatch ID # LB135208

Review By	Niha	Review On	3/27/2025 11:55:03 AM
Supervise By	Iwona	Supervise On	3/27/2025 3:53:41 PM
SubDirectory	LB135208	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	WP112522,WP112519,WP112518,WP112521,WP112520,W3116

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	CAL1	CAL1	CAL	03/27/25 10:36		Niha	OK
2	CAL2	CAL2	CAL	03/27/25 10:40		Niha	OK
3	CAL3	CAL3	CAL	03/27/25 10:44		Niha	OK
4	CAL4	CAL4	CAL	03/27/25 10:48		Niha	OK
5	CAL5	CAL5	CAL	03/27/25 10:52		Niha	OK
6	CAL6	CAL6	CAL	03/27/25 10:56		Niha	OK
7	ICV	ICV	ICV	03/27/25 11:00		Niha	OK
8	ICB	ICB	ICB	03/27/25 11:04		Niha	OK
9	CCV1	CCV1	CCV	03/27/25 11:08		Niha	OK
10	CCB1	CCB1	CCB	03/27/25 11:12		Niha	OK
11	LB135208BL	LB135208BL	MB	03/27/25 11:16		Niha	OK
12	Q1505-33	PT-TURB-WP	SAM	03/27/25 11:20		Niha	OK
13	CCV2	CCV2	CCV	03/27/25 11:24		Niha	OK
14	CCB2	CCB2	CCB	03/27/25 11:28		Niha	OK

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Instrument ID: WC SC-3

Daily Analysis Runlog For Sequence/QCBatch ID # LB135334

Review By	jignesh	Review On	4/8/2025 10:58:56 AM
Supervise By	Iwona	Supervise On	4/9/2025 9:33:41 AM
SubDirectory	LB135334	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	LB135334BL	LB135334BL	MB	04/08/25 11:00		jignesh	OK
2	LB135334BS	LB135334BS	LCS	04/08/25 11:00		jignesh	OK
3	Q1505-10	PT-SOL-WP	SAM	04/08/25 11:00		jignesh	OK
4	Q1717-01	EFFLUENT	SAM	04/08/25 11:00		jignesh	OK
5	Q1717-01DUP	EFFLUENTDUP	DUP	04/08/25 11:00		jignesh	OK
6	Q1717-04	AERATION-1	SAM	04/08/25 11:00		jignesh	OK

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Instrument ID: WC SC-3

Daily Analysis Runlog For Sequence/QCBatch ID # LB135335

Review By	jignesh	Review On	4/9/2025 8:47:02 AM
Supervise By	Iwona	Supervise On	4/9/2025 9:33:20 AM
SubDirectory	LB135335	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	LB135335BL	LB135335BL	MB	04/08/25 12:30		jignesh	OK
2	LB135335BS	LB135335BS	LCS	04/08/25 12:30		jignesh	OK
3	Q1505-10	PT-SOL-WP	SAM	04/08/25 12:30		jignesh	OK

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Instrument ID: WC SC-3

Daily Analysis Runlog For Sequence/QCBatch ID # LB135336

Review By	jignesh	Review On	4/9/2025 8:52:53 AM
Supervise By	Iwona	Supervise On	4/9/2025 9:32:26 AM
SubDirectory	LB135336	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	LB135336BL	LB135336BL	MB	04/08/25 11:00		jignesh	OK
2	Q1505-10	PT-SOL-WP	SAM	04/08/25 11:00		jignesh	OK

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Prep Standard - Chemical Standard Summary

Order ID : Q1505

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 : PB167063,PB167144,PB167174,PB167175,PB167190,PB167191,PB167192,PB167195,PB167198,PB167199,

Sequence ID/Qc Batch ID: LB134982,LB134984,LB134985,LB134988,LB134998,LB135002,LB135003,LB135004,LB135005,LB13

Standard ID :

EP2593,WP100827,WP100828,WP109922,WP109953,WP110020,WP110021,WP110103,WP110149,WP110150,WP110259,WP110308,WP110309,WP110335,WP110380,WP110386,WP110390,WP110391,WP110400,WP110401,WP110478,WP110587,WP110588,WP110767,WP110826,WP111004,WP111035,WP111294,WP111295,WP111296,WP111315,WP111316,WP111317,WP111318,WP111319,WP111323,WP111325,WP111385,WP111386,WP111415,WP111436,WP111437,WP111449,WP111450,WP111451,WP111452,WP111514,WP111515,WP111516,WP111517,WP111518,WP111519,WP111520,WP111522,WP111660,WP111691,WP111745,WP111833,WP111834,WP111873,WP111946,WP111947,WP111959,WP111962,WP112016,WP112017,WP112018,WP112019,WP112020,WP112021,WP112022,WP112023,WP112024,WP112025,WP112079,WP112163,WP112233,WP112234,WP112265,WP112266,WP112267,WP112268,WP112269,WP112270,WP112272,WP112273,WP112274,WP112275,WP112276,WP112278,WP112279,WP112280,WP112284,WP112285,WP112286,WP112287,WP112288,WP112289,WP112290,WP112291,WP112292,WP112293,WP112294,WP112295,WP112299,WP112300,WP112301,WP112302,WP112303,WP112304,WP112305,WP112306,WP112307,WP112308

Chemical ID :

AS PER

PB167083,E3551,E3902,M5501,M5673,M5789,M5884,M6041,M6069,M6121,W1992,W1993,W2103,W2211,W2306,W2606,W2647,W2650,W2651,W2652,W2653,W2654,W2663,W2664,W2666,W2668,W2697,W2699,W2700,W2708,W2725,W2783,W2784,W2788,W2797,W2800,W2812,W2845,W2858,W2860,W2882,W2898,W2926,W2979,W2983,W2984,W3001,W3012,W3016,W3017,W3019,W3020,W3022,W3035,W3049,W3054,W3055,W3058,W3059,W3063,W3071,W3072,W3074,W3078,W3079,W3081,W3083,W3093,W3094,W3095,W3101,W3103,W3105,W3107,W3109,W3112,W3113,W3114,W3116,W3119,W3121,W3127,W3130,W3131,W3132,W3133,W3138,W3139,W3140,W3141,W3144,W3147,W3148,W3149,W3150,W3151,W3152,W3154,W3155,W3156,W3161,W3167,W3169,W3174,W3176,W3177,W3180,

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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	EP2593	03/07/2025	07/01/2025	RUPESHKUMAR SHAH	Extraction_SCALE_2 (EX-SC-2)	None	Riteshkumar Patel 03/07/2025

FROM 4000.00000gram of E3551 = Final Quantity: 4000.000 gram

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
114	hexavalent chromium color reagent	WP100827	02/02/2023	02/09/2023	Rubina Mughal	WETCHEM_SCALE_5 (WC SC-5)	None	Iwona Zarych 02/02/2023

FROM 0.25000gram of W2979 + 50.00000ml of W2783 = 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
3456	Cyanide Intermediate Working Std, 5PPM	WP100828	02/02/2023	02/03/2023	Iwona Zarych	None	WETCHEM_PIPETTE_3 (WC)	Sohil Jodhani 02/07/2023

FROM 0.25000ml of W2898 + 49.75000ml of WP99896 = Final Quantity: 50.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1211	11 N sulfuric acid	WP109922	09/26/2024	03/26/2025	Iwona Zarych	None	None	Jignesh Parikh 10/07/2024

FROM 306.00000ml of M5673 + 694.00000ml 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
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
672	ammonia buffer for phenol	WP110020	10/03/2024	04/03/2025	Rubina Mughal	WETCHEM_SCALE_5 (WCSC-5)	None	Iwona Zarych 10/04/2024

FROM 143.00000ml of W3141 + 16.90000gram of W1992 + 90.10000ml of W3112 = Final Quantity: 250.000 ml

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Wet Chemistry STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1935	Potassium ferricyanide solution-phenol	WP110021	10/03/2024	04/03/2025	Rubina Mughal	WETCHEM_SCALE_4 (WCSC-4)	None	Iwona Zarych 10/04/2024

FROM 8.00000gram of W2211 + 92.00000ml of W3112 = Final Quantity: 100.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
539	CN BUFFER	WP110103	10/08/2024	04/08/2025	Rubina Mughal	WETCHEM_SCALE_5 (WCSC-5)	None	Iwona Zarych 10/08/2024

FROM 138.00000gram of W2668 + 862.00000ml 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
153	Ammonia Stock Std. (1000 ppm)	WP110149	10/11/2024	04/08/2025	Rubina Mughal	WETCHEM_SCALE_5 (WCSC-5)	None	Iwona Zarych 10/14/2024

FROM 3.81900gram of W1993 + 996.18100ml of W3112 = Final Quantity: 1000.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1895	Ammonia Stock Std, 1000PPM-SS	WP110150	10/11/2024	04/08/2025	Rubina Mughal	WETCHEM_SCALE_5 (WCSC-5)	None	Iwona Zarych 10/14/2024

FROM 3.81900gram of W1992 + 996.18100ml 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
4035	IC ELUENT CONCENTRATE FOR IC-1	WP110259	10/16/2024	04/16/2025	Iwona Zarych	WETCHEM_SCALE_5 (WCSC-5)	None	Jignesh Parikh 10/17/2024

FROM 2.10000gram of W2647 + 84.75000gram of W3058 + 913.15000ml of W3112 = Final Quantity: 1000.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3837	Sulfate Stock Std, 1000PPM	WP110308	10/21/2024	04/21/2025	Rubina Mughal	WETCHEM_SCALE_5 (WCSC-5)	None	Iwona Zarych 10/22/2024

FROM 1.47900gram of W3054 + 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
3838	Sulfate Stock Std- SS, 1000PPM	WP110309	10/21/2024	04/21/2025	Rubina Mughal	WETCHEM_SCALE_5 (WCSC-5)	None	Iwona Zarych 10/22/2024

FROM 1.47900gram of W3055 + 999.00000ml of W3112 = Final Quantity: 1000.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1597	0.04 N H2SO4	WP110335	10/22/2024	04/22/2025	Rubina Mughal	None	WETCHEM_PIPETTE_3 (WC)	Iwona Zarych 10/22/2024

FROM 1.00000ml of M5673 + 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
126	5N sulfuric acid	WP110380	10/24/2024	04/24/2025	Rubina Mughal	None	None	Iwona Zarych 10/24/2024

FROM 140.00000ml of M5673 + 860.00000ml of W3112 = Final Quantity: 1.000 L

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1841	Sulfuric Acid, 1N	WP110386	10/24/2024	04/24/2025	Rubina Mughal	None	WETCHEM_PIPETTE_3 (WC)	Iwona Zarych 10/24/2024

FROM 2.80000ml of M5673 + 97.20000ml 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
3214	Magnesium Chloride For Cyanide 2.5M(51%W/V)	WP110390	10/24/2024	04/24/2025	Niha Farheen Shaik	WETCHEM_SCALE_5 (WCSC-5)	None	Iwona Zarych 10/24/2024

FROM 500.00000ml of W3112 + 510.00000gram of W3001 = Final Quantity: 1000.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1714	Sulfuric Acid, 50% (v/v)	WP110391	10/24/2024	04/24/2025	Niha Farheen Shaik	None	None	Iwona Zarych 10/24/2024

FROM 1000.00000ml of M5673 + 1000.00000ml of W3112 = 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
115	Phosphate Stock Std. (50 ppm)	WP110400	10/24/2024	04/23/2025	Rubina Mughal	WETCHEM_SCALE_5 (WCSC-5)	None	Iwona Zarych 10/25/2024

FROM 0.11000gram of W2699 + 500.00000ml of W3112 = Final Quantity: 500.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
2790	Phosphate Stock std, 50PPM-SS	WP110401	10/24/2024	04/24/2025	Rubina Mughal	WETCHEM_SCALE_5 (WCSC-5)	None	Iwona Zarych 10/25/2024

FROM 0.11000gram of W2708 + 500.00000ml of W3112 = 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
3890	Chloride Stock Std - 10000ppm	WP110478	10/29/2024	04/29/2025	Niha Farheen Shaik	WETCHEM_SCALE_5 (WCSC-5)	None	Iwona Zarych 10/30/2024

FROM 16.48500gram of M5501 + 985.00000ml of W3112 = Final Quantity: 1000.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
648	Ammonium molybdate solution	WP110587	11/07/2024	05/07/2025	Niha Farheen Shaik	WETCHEM_SCALE_5 (WCSC-5)	None	Jignesh Parikh 11/07/2024

FROM 20.00000gram of W2664 + 480.00000ml of W3112 = 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	WP110588	11/07/2024	05/07/2025	Niha Farheen Shaik	WETCHEM_SCALE_5 (WCSC-5)	None	Jignesh Parikh 11/07/2024

FROM 1.37150gram of W2306 + 500.00000ml of W3112 = Final Quantity: 500.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3886	Inorganic carbon stock solution, 1000ppm	WP110767	11/20/2024	05/20/2025	Niha Farheen Shaik	WETCHEM_SCALE_5 (WCSC-5)	None	Mohan Bera 11/21/2024

FROM 3.49700gram of W2647 + 4.41220gram of W3058 + 993.00000ml 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
229	1:1 HCL	WP110826	11/22/2024	05/13/2025	Jignesh Parikh	None	None	Iwona Zarych 11/22/2024

FROM 500.00000ml of M6121 + 500.00000ml of W3112 = Final Quantity: 1.000 L

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
160	0.5M ZINC ACETATE	WP111004	12/09/2024	05/13/2025	Rubina Mughal	WETCHEM_SCALE_8 (WCSC-7)	WETCHEM_PIPETTE_3 (WC)	Iwona Zarych 12/09/2024

FROM 0.88900L of W3112 + 1.00000ml of M6121 + 110.00000gram of W2926 = 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	WP111035	12/09/2024	04/30/2025	Niha Farheen Shaik	WETCHEM_SCALE_5 (WCSC-5)	Glass Pipette-A	Iwona Zarych 12/10/2024

FROM 145.00000ml of W3112 + 15.00000gram of W2882 + 15.00000ml of M6121 + 75.00000ml of W3019 = Final Quantity: 250.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
11	Sodium hydroxide absorbing solution 0.25 N	WP111294	01/07/2025	07/07/2025	Niha Farheen Shaik	WETCHEM_SCALE_5 (WCSC-5)	None	Iwona Zarych 01/07/2025

FROM 21.00000L of W3112 + 210.00000gram of W3113 = Final Quantity: 21.000 L

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Wet Chemistry STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3850	Cyanide MS-MSD spiking solution, 5PPM	WP111295	01/07/2025	07/07/2025	Niha Farheen Shaik	None	WETCHEM_PIPETTE_3 (WC)	Iwona Zarych 01/07/2025

FROM 1.00000ml of W3154 + 199.00000ml of WP111294 = Final Quantity: 200.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3371	Cyanide LCS Spike Solution, 5PPM	WP111296	01/07/2025	07/07/2025	Niha Farheen Shaik	None	WETCHEM_PIPETTE_3 (WC)	Iwona Zarych 01/07/2025

FROM 1.00000ml of W3138 + 199.00000ml of WP111294 = 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
1993	HEXAVALENTCHROMIUM STOCK STD 1, 50PPM	WP111315	01/09/2025	07/09/2025	Rubina Mughal	WETCHEM_SCALE_5 (WCSC-5)	None	Iwona Zarych 01/09/2025

FROM 0.14140gram of W2651 + 1000.00000ml of W3112 = Final Quantity: 1000.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1994	HEXAVALENTCHROMIUM STOCK STD 2, 50PPM	WP111316	01/09/2025	07/09/2025	Rubina Mughal	WETCHEM_SCALE_5 (WCSC-5)	None	Iwona Zarych 01/09/2025

FROM 0.14140gram of W2652 + 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
1796	NaOH, 0.1N	WP111317	01/09/2025	07/09/2025	Rubina Mughal	WETCHEM_SCALE_7 (WCSC-6)	None	Iwona Zarych 01/09/2025

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
1471	NaOH Solution, 6N	WP111318	01/09/2025	07/09/2025	Rubina Mughal	WETCHEM_SCALE_7 (WCSC-6)	None	Iwona Zarych 01/09/2025

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
619	TKN digestion solution	WP111319	01/09/2025	04/23/2025	Rubina Mughal	WETCHEM_SCALE_8 (WCSC-7)	None	Iwona Zarych 01/09/2025

FROM 134.00000gram of W2983 + 134.00000ml of M6041 + 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
1571	Sodium hydroxide, 1N	WP111323	01/09/2025	07/09/2025	Rubina Mughal	WETCHEM_SCALE_8 (WCSC-7)	None	Iwona Zarych 01/09/2025

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
1494	BORATE BUFFER	WP111325	01/09/2025	07/09/2025	Rubina Mughal	None	None	Iwona Zarych 01/09/2025

FROM 100.00000L of W3112 + 9.50000gram of W2700 + 88.00000ml of WP111317 = Final Quantity: 100.000 L

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
290	Phenol reagent for Ammonia	WP111385	01/13/2025	07/13/2025	Rubina Mughal	WETCHEM_SCALE_8 (WCSC-7)	None	Iwona Zarych 01/13/2025

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
1105	conditioning reagent	WP111386	01/13/2025	05/13/2025	Rubina Mughal	WETCHEM_SCALE_8 (WCSC-7)	None	Jignesh Parikh 01/14/2025

FROM 100.00000ml of W2788 + 30.00000ml of M6121 + 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
1213	Phenolphthalein indicator	WP111415	01/15/2025	06/04/2025	Niha Farheen Shaik	WETCHEM_SCALE_5 (WCSC-5)	None	Iwona Zarych 01/16/2025

FROM 0.10000gram of W2650 + 50.00000ml of W2788 + 50.00000ml 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
2050	TOC STOCK STD, 4000PPM	WP111436	01/15/2025	07/15/2025	Niha Farheen Shaik	WETCHEM_SCALE_5 (WCSC-5)	WETCHEM_PIPETTE_3 (WC)	Iwona Zarych 01/16/2025

FROM 5.00000ml of W2860 + 8.51200gram of W3169 + 990.00000ml of W3112 = Final Quantity: 1000.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
2051	TOC STOCK STD-SS, 4000PPM	WP111437	01/15/2025	06/30/2025	Niha Farheen Shaik	WETCHEM_SCALE_5 (WCSC-5)	WETCHEM_PIPETTE_3 (WC)	Iwona Zarych 01/16/2025

FROM 5.00000ml of W2860 + 8.51200gram of W2784 + 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
4003	Solution A	WP111449	01/15/2025	07/15/2025	Niha Farheen Shaik	WETCHEM_SCALE_5 (WCSC-5)	None	Iwona Zarych 01/16/2025

FROM 1000.00000ml of W3112 + 2.56500gram of W3167 = Final Quantity: 1000.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
4004	Solution B	WP111450	01/15/2025	07/15/2025	Niha Farheen Shaik	WETCHEM_SCALE_5 (WCSC-5)	None	Iwona Zarych 01/16/2025

FROM 0.24800gram of W3020 + 0.28100gram of M5501 + 0.28300gram of W2800 + 0.59400gram of W1992 + 1000.00000ml of W3112 + 2.05000gram of W3017 = 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
4005	Solution C	WP111451	01/15/2025	07/15/2025	Niha Farheen Shaik	WETCHEM_SCALE_5 (WCSC-5)	None	Iwona Zarych 01/16/2025

FROM 0.70500gram of W3016 + 1000.00000ml of W3112 + 2.80600gram of W2647 = Final Quantity: 1000.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
4006	Solution D	WP111452	01/15/2025	07/15/2025	Niha Farheen Shaik	WETCHEM_SCALE_5 (WCSC-5)	None	Iwona Zarych 01/16/2025

FROM 1.86200gram of W3022 + 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
2456	COD Stock std, 1000ppm	WP111514	01/22/2025	01/29/2025	Niha Farheen Shaik	WETCHEM_SCALE_5 (WCSC-5)	None	Iwona Zarych 01/22/2025

FROM 0.08500gram of W3169 + 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	WP111515	01/22/2025	01/29/2025	Niha Farheen Shaik	WETCHEM_SCALE_5 (WCSC-5)	None	Iwona Zarych 01/22/2025

FROM 0.08500gram of W2784 + 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	WP111516	01/22/2025	01/29/2025	Niha Farheen Shaik	None	None	Iwona Zarych 01/22/2025

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	WP111517	01/22/2025	01/29/2025	Niha Farheen Shaik	None	WETCHEM_PIPETTE_3 (WC)	Iwona Zarych 01/22/2025

FROM 9.90000ml of W3112 + 0.10000ml of WP111514 = 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	WP111518	01/22/2025	01/29/2025	Niha Farheen Shaik	None	WETCHEM_PIPETTE_3 (WC)	Iwona Zarych 01/22/2025

FROM 9.50000ml of W3112 + 0.50000ml of WP111514 = 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	WP111519	01/22/2025	01/29/2025	Niha Farheen Shaik	None	WETCHEM_PIPETTE_3 (WC)	Iwona Zarych 01/22/2025

FROM 9.00000ml of W3112 + 1.00000ml of WP111514 = 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	WP111520	01/22/2025	01/29/2025	Niha Farheen Shaik	None	WETCHEM_PIPETTE_3 (WC)	Iwona Zarych 01/22/2025

FROM 8.50000ml of W3112 + 1.50000ml of WP111514 = 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	WP111522	01/22/2025	01/29/2025	Niha Farheen Shaik	None	WETCHEM_PIPETTE_3 (WC)	Iwona Zarych 01/22/2025

FROM 9.50000ml of W3112 + 0.50000ml of WP111515 = 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
635	EDTA BUFFER FOR AMMONIA	WP111660	01/28/2025	07/28/2025	Rubina Mughal	WETCHEM_SCALE_8 (WCSC-7)	None	Iwona Zarych 01/28/2025

FROM 5.50000gram of W3113 + 50.00000gram of W3132 + 950.00000ml of W3112 = Final Quantity: 1000.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1647	Sulfate Buffer solution A	WP111691	01/30/2025	04/30/2025	Niha Farheen Shaik	WETCHEM_SCALE_5 (WCSC-5)	None	Iwona Zarych 01/30/2025

FROM 1.00000gram of W3119 + 20.00000ml of W3151 + 30.00000gram of W3152 + 5.00000gram of W2984 + 944.00000ml 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
289	Sodium Hypochlorite for Ammonia	WP111745	02/03/2025	07/31/2025	Rubina Mughal	None	None	Iwona Zarych 02/03/2025

FROM 50.00000ml of W3112 + 50.00000ml of W3174 = Final Quantity: 100.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1903	Phenol stock std, 1000PPM	WP111833	02/07/2025	08/07/2025	Rubina Mughal	WETCHEM_SCALE_5 (WCSC-5)	None	Iwona Zarych 02/07/2025

FROM 1.00000gram of W2663 + 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
1904	Phenol stock std, 1000PPM-SS	WP111834	02/07/2025	08/07/2025	Rubina Mughal	WETCHEM_SCALE_5 (WCSC-5)	None	Iwona Zarych 02/07/2025

FROM 1.00000gram of W2858 + 999.00000ml of W3112 = Final Quantity: 1000.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3806	HNO3 0.1N for Chloride	WP111873	02/11/2025	07/30/2025	Niha Farheen Shaik	None	WETCHEM_PIPETTE_3 (WC)	Iwona Zarych 02/11/2025

FROM 0.64000ml of M5789 + 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
1322	Ammonia Intermediate Std, 50PPM	WP111946	02/17/2025	03/17/2025	Rubina Mughal	None	WETCHEM_PIPETTE_3 (WC)	Iwona Zarych 02/19/2025

FROM 95.00000ml of W3112 + 5.00000ml of WP110149 = Final Quantity: 100.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1639	Ammonia Intermediate Std-Second source, 50PPM	WP111947	02/17/2025	03/17/2025	Rubina Mughal	None	WETCHEM_PIPETTE_3 (WC)	Iwona Zarych 02/19/2025

FROM 95.00000ml of W3112 + 5.00000ml of WP110150 = 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
922	0.2N SULFURIC ACID	WP111959	02/19/2025	08/19/2025	Rubina Mughal	None	WETCHEM_PIPETTE_3 (WC)	Iwona Zarych 02/19/2025

FROM 5.60000ml of M6041 + 994.40000ml of W3112 = Final Quantity: 1000.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
540	conductivity standard	WP111962	02/19/2025	08/19/2025	Iwona Zarych	WETCHEM_SCALE_5 (WCSC-5)	None	Jignesh Parikh 02/19/2025

FROM 0.74560gram of W2800 + 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
2487	Anions 300/9056 calibration standard 1	WP112016	02/21/2025	02/22/2025	Iwona Zarych	None	None	Jignesh Parikh 02/24/2025

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	WP112017	02/21/2025	02/22/2025	Iwona Zarych	None	WETCHEM_PIPETTE_3 (WC)	Jignesh Parikh 02/24/2025

FROM 0.20000ml of W3180 + 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	WP112018	02/21/2025	02/22/2025	Iwona Zarych	None	WETCHEM_PIPETTE_3 (WC)	Jignesh Parikh 02/24/2025

FROM 0.40000ml of W3180 + 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	WP112019	02/21/2025	02/22/2025	Iwona Zarych	None	WETCHEM_PIPETTE_3 (WC)	Jignesh Parikh 02/24/2025

FROM 0.50000ml of W3180 + 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	WP112020	02/21/2025	02/22/2025	Iwona Zarych	None	WETCHEM_PIPETTE_3 (WC)	Jignesh Parikh 02/24/2025

FROM 45.00000ml of W3112 + 5.00000ml of W3180 = 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	WP112021	02/21/2025	02/22/2025	Iwona Zarych	None	WETCHEM_PIPETTE_3 (WC)	Jignesh Parikh 02/24/2025

FROM 2.00000ml of W3180 + 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	WP112022	02/21/2025	02/22/2025	Iwona Zarych	None	WETCHEM_PIPETTE_3 (WC)	Jignesh Parikh 02/24/2025

FROM 2.50000ml of W3180 + 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	WP112023	02/21/2025	02/22/2025	Iwona Zarych	None	WETCHEM_PIPETTE_3 (WC)	Jignesh Parikh 02/24/2025

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
4036	IC ELUENT FOR IC-1	WP112024	02/21/2025	03/21/2025	Iwona Zarych	None	None	Jignesh Parikh 02/24/2025

FROM 1980.00000ml of W3112 + 20.00000ml of WP110259 = 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	WP112025	02/21/2025	03/21/2025	Iwona Zarych	None	Glass Pipette-A	Jignesh Parikh 02/24/2025

FROM 5.60000ml of M6041 + 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
1338	TKN DISTILLING BUFFER	WP112079	02/27/2025	08/27/2025	Rubina Mughal	WETCHEM_SCALE_8 (WCSC-7)	None	Iwona Zarych 02/27/2025

FROM 0.47500L of W3112 + 25.00000gram of W3148 + 500.00000gram of W3113 = Final Quantity: 1.000 L

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
740	sodium nitroferricyanide for ammonia	WP112163	02/27/2025	03/27/2025	Rubina Mughal	WETCHEM_SCALE_5 (WCSC-5)	None	Iwona Zarych 03/04/2025

FROM 0.05000gram of W2666 + 99.95000ml 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
1478	Phenol Intermediate Std - 50PPM	WP112233	03/10/2025	04/10/2025	Rubina Mughal	None	WETCHEM_PIPETTE_3 (WC)	Iwona Zarych 03/11/2025

FROM 47.50000ml of W3112 + 2.50000ml of WP111833 = 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	WP112234	03/10/2025	04/10/2025	Rubina Mughal	None	WETCHEM_PIPETTE_3 (WC)	Iwona Zarych 03/11/2025

FROM 47.50000ml of W3112 + 2.50000ml of WP111834 = 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
3680	Anions 300/9056 calibration standard 5-CCV	WP112265	03/11/2025	03/12/2025	Niha Farheen Shaik	None	Glass Pipette-A	Iwona Zarych 03/13/2025

FROM 45.00000ml of W3112 + 5.00000ml of W3180 = Final Quantity: 50.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3233	Anions 300/9056 ICV-LCS std	WP112266	03/11/2025	03/12/2025	Niha Farheen Shaik	None	Glass Pipette-A	Iwona Zarych 03/13/2025

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
3482	Nitrite Calibration Std-0.6PPM	WP112267	03/11/2025	03/12/2025	Niha Farheen Shaik	None	WETCHEM_PIPETTE_3 (WC)	Iwona Zarych 03/13/2025

FROM 1.00000ml of W3180 + 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	WP112268	03/11/2025	03/12/2025	Niha Farheen Shaik	None	WETCHEM_PIPETTE_3 (WC)	Iwona Zarych 03/13/2025

FROM 0.50000ml of W3180 + 49.50000ml of W3112 = 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
3484	Nitrite ICV-LCSW Std-0.3PPM	WP112269	03/11/2025	03/12/2025	Niha Farheen Shaik	None	WETCHEM_PIPETTE_3 (WC)	Iwona Zarych 03/13/2025

FROM 0.50000ml of W3063 + 49.50000ml of W3112 = Final Quantity: 50.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1849	Buffer Color reagent NO2	WP112270	03/11/2025	04/11/2025	Niha Farheen Shaik	WETCHEM_SCALE_5 (WCSC-5)	Glass Pipette-A	Iwona Zarych 03/13/2025

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
3891	Chloride LCS Std - 500ppm	WP112272	03/12/2025	03/13/2025	Niha Farheen Shaik	None	WETCHEM_PIPETTE_3 (WC)	Iwona Zarych 03/13/2025

FROM 19.00000ml of W3112 + 1.00000ml of WP110478 = Final Quantity: 20.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3898	Mixed indicator reagent for Chloride more than 100ppm	WP112273	03/12/2025	04/12/2025	Niha Farheen Shaik	WETCHEM_SCALE_5 (WCSC-5)	None	Iwona Zarych 03/13/2025

FROM 0.05000gram of W2797 + 0.50000gram of W3049 + 99.00000ml of W2788 = 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
127	BOD Dilution fluid	WP112274	03/12/2025	03/13/2025	Rubina Mughal	None	None	Iwona Zarych 03/13/2025

FROM 18.00000L of W3112 + 3.00000PILLOW of W3144 = Final Quantity: 18.000 L

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
129	Glutamic acid-glucose mix for BOD	WP112275	03/12/2025	03/13/2025	Rubina Mughal	WETCHEM_SCALE_7 (WCSC-6)	None	Iwona Zarych 03/13/2025

FROM 0.15000gram of W2653 + 0.15000gram of W2654 + 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
128	polyseed seed control	WP112276	03/12/2025	03/13/2025	Rubina Mughal	None	None	Iwona Zarych 03/13/2025

FROM 1.00000PILLOW of W3059 + 300.00000ml of WP112274 = Final Quantity: 300.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
275	Ammonia Calibration Std. (2 ppm)	WP112278	03/12/2025	03/13/2025	Rubina Mughal	None	WETCHEM_PIPETTE_3 (WC)	Iwona Zarych 03/13/2025

FROM 48.00000ml of W3112 + 2.00000ml of WP111946 = 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)	WP112279	03/12/2025	03/13/2025	Rubina Mughal	None	WETCHEM_PIPETTE_3 (WC)	Iwona Zarych 03/13/2025

FROM 49.00000ml of W3112 + 1.00000ml of WP111946 = 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)	WP112280	03/12/2025	03/13/2025	Rubina Mughal	None	WETCHEM_PIPETTE_3 (WC)	Iwona Zarych 03/13/2025

FROM 49.00000ml of W3112 + 1.00000ml of WP111947 = 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
3888	TOC Water Intermediate std-200ppm	WP112284	03/11/2025	03/18/2025	Niha Farheen Shaik	None	None	Iwona Zarych 03/13/2025

FROM 95.00000ml of W3112 + 5.00000ml of WP111436 = 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	WP112285	03/11/2025	03/18/2025	Niha Farheen Shaik	None	None	Iwona Zarych 03/13/2025

FROM 95.00000ml of W3112 + 5.00000ml of WP111437 = 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	WP112286	03/11/2025	03/18/2025	Niha Farheen Shaik	None	None	Iwona Zarych 03/13/2025

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	WP112287	03/11/2025	03/18/2025	Niha Farheen Shaik	None	WETCHEM_PIPETTE_3 (WC)	Iwona Zarych 03/13/2025

FROM 99.75000ml of W3112 + 0.25000ml of WP112284 = 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	WP112288	03/11/2025	03/18/2025	Niha Farheen Shaik	None	WETCHEM_PIPETTE_3 (WC)	Iwona Zarych 03/13/2025

FROM 99.50000ml of W3112 + 0.50000ml of WP112284 = Final Quantity: 100.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
307	TOC CAL 2.0PPM	WP112289	03/11/2025	03/18/2025	Niha Farheen Shaik	None	WETCHEM_PIPETTE_3 (WC)	Iwona Zarych 03/13/2025

FROM 99.00000ml of W3112 + 1.00000ml of WP112284 = 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	WP112290	03/11/2025	03/18/2025	Niha Farheen Shaik	None	WETCHEM_PIPETTE_3 (WC)	Iwona Zarych 03/13/2025

FROM 97.50000ml of W3112 + 2.50000ml of WP112284 = Final Quantity: 100.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3331	TOC CAL-CCV std, 10PPM	WP112291	03/11/2025	03/18/2025	Niha Farheen Shaik	None	Glass Pipette-A	Iwona Zarych 03/13/2025

FROM 190.00000ml of W3112 + 10.00000ml of WP112284 = 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
310	TOC CAL 20.0PPM	WP112292	03/11/2025	03/18/2025	Niha Farheen Shaik	None	Glass Pipette-A	Iwona Zarych 03/13/2025

FROM 90.00000ml of W3112 + 10.00000ml of WP112284 = Final Quantity: 100.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1650	TOC ICV/LCS STD. 10PPM	WP112293	03/11/2025	03/18/2025	Niha Farheen Shaik	None	Glass Pipette-A	Iwona Zarych 03/13/2025

FROM 190.00000ml of W3112 + 10.00000ml of WP112285 = 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	WP112294	03/11/2025	03/18/2025	Niha Farheen Shaik	None	WETCHEM_PIPETTE_3 (WC)	Iwona Zarych 03/13/2025

FROM 49.00000ml of W3112 + 1.00000ml of WP110767 = Final Quantity: 50.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
4007	IC-removal check solution	WP112295	03/11/2025	03/18/2025	Niha Farheen Shaik	None	WETCHEM_PIPETTE_3 (WC)	Iwona Zarych 03/13/2025

FROM 0.04000ml of M6041 + 10.00000ml of WP111449 + 10.00000ml of WP111450 + 10.00000ml of WP111451 + 10.00000ml of WP111452 = 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
122	calibration std. 0 ppm	WP112299	03/14/2025	03/21/2025	Niha Farheen Shaik	None	None	Iwona Zarych 03/18/2025

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	WP112300	03/14/2025	03/21/2025	Niha Farheen Shaik	None	WETCHEM_PIPETTE_3 (WC)	Iwona Zarych 03/18/2025

FROM 99.90000ml of W3112 + 0.10000ml of WP110400 = 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
120	calibration std. phosphate 0.1 ppm	WP112301	03/14/2025	03/21/2025	Niha Farheen Shaik	None	WETCHEM_PIPETTE_3 (WC)	Iwona Zarych 03/18/2025

FROM 99.80000ml of W3112 + 0.20000ml of WP110400 = Final Quantity: 100.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
119	calibration std. phosphate 0.3 ppm	WP112302	03/14/2025	03/21/2025	Niha Farheen Shaik	None	WETCHEM_PIPETTE_3 (WC)	Iwona Zarych 03/18/2025

FROM 99.40000ml of W3112 + 0.60000ml of WP110400 = 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	WP112303	03/14/2025	03/21/2025	Niha Farheen Shaik	None	WETCHEM_PIPETTE_3 (WC)	Iwona Zarych 03/18/2025

FROM 99.00000ml of W3112 + 1.00000ml of WP110400 = 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	WP112304	03/14/2025	03/21/2025	Niha Farheen Shaik	None	WETCHEM_PIPETTE_3 (WC)	Iwona Zarych 03/18/2025

FROM 98.00000ml of W3112 + 2.00000ml of WP110400 = 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
124	phosphate CCV std.	WP112305	03/14/2025	03/21/2025	Niha Farheen Shaik	None	WETCHEM_PIPETTE_3 (WC)	Iwona Zarych 03/18/2025

FROM 99.00000ml of W3112 + 1.00000ml of WP110400 = Final Quantity: 100.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3805	Phosphate ICV-LCS Std	WP112306	03/14/2025	03/21/2025	Niha Farheen Shaik	None	WETCHEM_PIPETTE_3 (WC)	Iwona Zarych 03/18/2025

FROM 99.00000ml of W3112 + 1.00000ml of WP110401 = 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	WP112307	03/14/2025	03/21/2025	Niha Farheen Shaik	WETCHEM_SCALE_5 (WCSC-5)	None	Iwona Zarych 03/18/2025

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	WP112308	03/14/2025	03/15/2025	Niha Farheen Shaik	None	Glass Pipette-A	Iwona Zarych 03/18/2025

FROM 15.00000ml of WP110587 + 30.00000ml of WP112307 + 5.00000ml of WP110588 + 50.00000ml of WP110380 = 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
1633	Phenol Calibration Std, 2PPM	WP112320	03/17/2025	03/18/2025	Rubina Mughal	None	WETCHEM_PIPETTE_3 (WC)	Iwona Zarych 03/18/2025

FROM 48.00000ml of W3112 + 2.00000ml of WP112233 = Final Quantity: 50.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1634	Phenol CCV Std, 1PPM	WP112321	03/17/2025	03/18/2025	Rubina Mughal	None	WETCHEM_PIPETTE_3 (WC)	Iwona Zarych 03/18/2025

FROM 49.00000ml of W3112 + 1.00000ml of WP112233 = 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
1636	Phenol ICV Std, 1PPM	WP112322	03/17/2025	03/18/2025	Rubina Mughal	None	WETCHEM_PIPETTE_3 (WC)	Iwona Zarych 03/18/2025

FROM 49.00000ml of W3112 + 1.00000ml of WP112234 = Final Quantity: 50.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
506	4-AMINOANTIPYRINE	WP112323	03/17/2025	03/18/2025	Rubina Mughal	WETCHEM_SCALE_5 (WCSC-5)	Glass Pipette-A	Iwona Zarych 03/18/2025

FROM 0.40000gram of W3176 + 20.00000ml of W3112 = Final Quantity: 20.000 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	WP112324	03/18/2025	03/19/2025	Niha Farheen Shaik	None	WETCHEM_PIPETTE_3 (WC)	Iwona Zarych 03/18/2025

FROM 0.25000ml of W3154 + 49.75000ml of WP111294 = Final Quantity: 50.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
4	Calibation standard 500 ppb	WP112325	03/18/2025	03/19/2025	Niha Farheen Shaik	None	Glass Pipette-A	Iwona Zarych 03/18/2025

FROM 45.00000ml of WP111294 + 5.00000ml of WP112324 = 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	WP112326	03/18/2025	03/19/2025	Niha Farheen Shaik	None	Glass Pipette-A	Iwona Zarych 03/18/2025

FROM 2.50000ml of WP112324 + 47.50000ml of WP111294 = Final Quantity: 50.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
6	Calibration Standard 100 ppb	WP112327	03/18/2025	03/19/2025	Niha Farheen Shaik	None	WETCHEM_PIPETTE_3 (WC)	Iwona Zarych 03/18/2025

FROM 1.00000ml of WP112324 + 49.00000ml of WP111294 = 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	WP112328	03/18/2025	03/19/2025	Niha Farheen Shaik	None	WETCHEM_PIPETTE_3 (WC)	Iwona Zarych 03/18/2025

FROM 0.50000ml of WP112324 + 49.50000ml of WP111294 = Final Quantity: 50.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
8	Calibration Standard 10 ppb	WP112329	03/18/2025	03/19/2025	Niha Farheen Shaik	None	WETCHEM_PIPETTE_3 (WC)	Iwona Zarych 03/18/2025

FROM 1.00000ml of WP112325 + 49.00000ml of WP111294 = 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	WP112330	03/18/2025	03/19/2025	Niha Farheen Shaik	None	WETCHEM_PIPETTE_3 (WC)	Iwona Zarych 03/18/2025

FROM 0.50000ml of WP112325 + 49.50000ml of WP111294 = 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	WP112331	03/18/2025	03/19/2025	Niha Farheen Shaik	None	None	Iwona Zarych 03/18/2025

FROM 50.00000ml of WP111294 = 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	WP112332	03/18/2025	03/19/2025	Niha Farheen Shaik	WETCHEM_SCALE_5 (WCSC-5)	None	Iwona Zarych 03/18/2025

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
3407	Acidity-Alkalinity Stock Std(-+2500PPM)	WP112336	03/18/2025	03/25/2025	Niha Farheen Shaik	WETCHEM_SCALE_5 (WCSC-5)	None	Iwona Zarych 03/20/2025

FROM 0.62500gram of W3058 + 249.40000ml of W3112 = Final Quantity: 250.000 ml

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Wet Chemistry STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
293	alkalinity LCSW 50 ppm	WP112337	03/18/2025	03/25/2025	Niha Farheen Shaik	None	None	Iwona Zarych 03/20/2025

FROM 196.00000ml of W3112 + 4.00000ml of WP112336 = Final Quantity: 200.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
295	TKN Calibration Std (10 ppm)	WP112338	03/19/2025	03/26/2025	Rubina Mughal	None	WETCHEM_PIPETTE_3 (WC)	Iwona Zarych 03/20/2025

FROM 49.50000ml of W3112 + 0.50000ml of WP110149 = 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
297	TKN CCV STD 5 ppm	WP112339	03/19/2025	03/26/2025	Rubina Mughal	None	WETCHEM_PIPETTE_3 (WC)	Iwona Zarych 03/20/2025

FROM 49.75000ml of W3112 + 0.25000ml of WP110149 = Final Quantity: 50.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
296	TKN ICV STD 5 ppm	WP112340	03/19/2025	03/26/2025	Rubina Mughal	None	WETCHEM_PIPETTE_3 (WC)	Iwona Zarych 03/20/2025

FROM 49.75000ml of W3112 + 0.25000ml of WP110150 = 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
298	TKN LCS STD 5 ppm	WP112341	03/19/2025	03/26/2025	Rubina Mughal	None	WETCHEM_PIPETTE_3 (WC)	Iwona Zarych 03/20/2025

FROM 49.75000ml of W3112 + 0.25000ml of WP110150 = Final Quantity: 50.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3443	Residual chlorine std, Intermediate 10PPM	WP112344	03/19/2025	03/20/2025	Niha Farheen Shaik	None	Glass Pipette-A	Iwona Zarych 03/20/2025

FROM 42.75000ml of W3112 + 7.25000ml of W3130 = 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
3444	Residual chlorine std, Intermediate-SS 10PPM	WP112345	03/19/2025	03/20/2025	Niha Farheen Shaik	None	Glass Pipette-A	Iwona Zarych 03/20/2025

FROM 42.50000ml of W3112 + 7.50000ml of W3131 = Final Quantity: 50.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3710	Chlorine Calibration std, 0.0ppm	WP112346	03/19/2025	03/20/2025	Niha Farheen Shaik	None	None	Iwona Zarych 03/20/2025

FROM 50.00000ml of W3112 = 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
3707	Chlorine Calibration std, 0.1ppm	WP112347	03/19/2025	03/20/2025	Niha Farheen Shaik	None	None	Iwona Zarych 03/20/2025

FROM 49.50000ml of W3112 + 0.50000ml of WP112344 = Final Quantity: 50.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3708	Chlorine Calibration std, 0.2ppm	WP112348	03/19/2025	03/20/2025	Niha Farheen Shaik	None	WETCHEM_PIPETTE_3 (WC)	Iwona Zarych 03/20/2025

FROM 49.00000ml of W3112 + 1.00000ml of WP112344 = 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
3709	Chlorine Calibration std, 0.8ppm	WP112349	03/19/2025	03/20/2025	Niha Farheen Shaik	None	Glass Pipette-A	Iwona Zarych 03/20/2025

FROM 46.00000ml of W3112 + 4.00000ml of WP112344 = Final Quantity: 50.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3711	Chlorine Calibration std, 1.6ppm	WP112350	03/19/2025	03/20/2025	Niha Farheen Shaik	None	Glass Pipette-A	Iwona Zarych 03/20/2025

FROM 42.00000ml of W3112 + 8.00000ml of WP112344 = 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
3799	Residual Chlorine Calibration and CCV std, 0.4PPM	WP112351	03/19/2025	03/20/2025	Niha Farheen Shaik	None	Glass Pipette-A	Iwona Zarych 03/20/2025

FROM 96.00000ml of W3112 + 4.00000ml of WP112344 = Final Quantity: 100.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3452	Residual chlorine ICV-LCS, 0.4PPM	WP112352	03/19/2025	03/20/2025	Niha Farheen Shaik	None	WETCHEM_PIPETTE_3 (WC)	Iwona Zarych 03/20/2025

FROM 48.00000ml of W3112 + 2.00000ml of WP112345 = Final Quantity: 50.000 ml

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Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1103	HEX CHROME INTERMEDIATE STD SOURCE 1 (5PPM)	WP112362	03/19/2025	03/20/2025	Rubina Mughal	None	WETCHEM_PIPETTE_3 (WC)	Iwona Zarych 03/20/2025

FROM 9.00000ml of W3112 + 1.00000ml of WP111315 = Final Quantity: 10.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
110	calibration std. hexchrome 0 ppm	WP112363	03/19/2025	03/20/2025	Rubina Mughal	None	None	Iwona Zarych 03/20/2025

FROM 100.00000ml of W3112 = Final Quantity: 100.000 ml

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Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
109	calibration std. hexchrome 0.01 ppm	WP112364	03/19/2025	03/20/2025	Rubina Mughal	None	WETCHEM_PIPETTE_3 (WC)	Iwona Zarych 03/20/2025

FROM 99.80000ml of W3112 + 0.20000ml of WP112362 = Final Quantity: 100.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3800	Calibration Std Hexachrome 0.025 ppm	WP112365	03/19/2025	03/20/2025	Rubina Mughal	None	WETCHEM_PIPETTE_3 (WC)	Iwona Zarych 03/20/2025

FROM 99.50000ml of W3112 + 0.50000ml of WP112362 = Final Quantity: 100.000 ml

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Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
108	Calibration Std. hexchrome 0.05 ppm	WP112366	03/19/2025	03/20/2025	Rubina Mughal	None	WETCHEM_PIPETTE_3 (WC)	Iwona Zarych 03/20/2025

FROM 99.00000ml of W3112 + 1.00000ml of WP112362 = Final Quantity: 100.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
107	Calibration Std. hexchrome 0.1 ppm	WP112367	03/19/2025	03/20/2025	Rubina Mughal	None	WETCHEM_PIPETTE_3 (WC)	Iwona Zarych 03/20/2025

FROM 99.80000ml of W3112 + 0.20000ml of WP111315 = 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
3808	Calibration and CCV std HexChrome 0.5PPM	WP112368	03/19/2025	03/20/2025	Rubina Mughal	None	WETCHEM_PIPETTE_3 (WC)	Iwona Zarych 03/20/2025

FROM 99.00000ml of W3112 + 1.00000ml of WP111315 = Final Quantity: 100.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3809	Calibration std HexChrome 1.0PPM	WP112369	03/19/2025	03/20/2025	Rubina Mughal	None	WETCHEM_PIPETTE_3 (WC)	Iwona Zarych 03/20/2025

FROM 98.00000ml of W3112 + 2.00000ml of WP111315 = 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
3804	Hexavalent Chromium ICV-LCS Std	WP112370	03/19/2025	03/20/2025	Rubina Mughal	None	WETCHEM_PIPETTE_3 (WC)	Iwona Zarych 03/20/2025

FROM 99.00000ml of W3112 + 1.00000ml of WP111316 = Final Quantity: 100.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
114	hexavalent chromium color reagent	WP112371	03/19/2025	03/26/2025	Rubina Mughal	WETCHEM_SCALE_5 (WCSC-5)	None	Iwona Zarych 03/20/2025

FROM 0.25000gram of W2979 + 50.00000ml of E3902 = 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
3311	Sulfide Int std, 1000PPM	WP112372	03/20/2025	03/21/2025	Rubina Mughal	WETCHEM_SCALE_5 (WCSC-5)	None	Iwona Zarych 03/20/2025

FROM 0.75000gram of W3156 + 99.00000ml of W3112 = Final Quantity: 100.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3312	Sulfide std, 25PPM	WP112373	03/20/2025	03/21/2025	Rubina Mughal	None	WETCHEM_PIPETTE_3 (WC)	Iwona Zarych 03/20/2025

FROM 48.75000ml of W3112 + 1.25000ml of WP112372 = 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
1103	HEX CHROME INTERMEDIATE STD SOURCE 1 (5PPM)	WP112374	03/20/2025	03/21/2025	Rubina Mughal	None	WETCHEM_PIPETTE_3 (WC)	Iwona Zarych 03/20/2025

FROM 9.00000ml of W3112 + 1.00000ml of WP111315 = Final Quantity: 10.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
110	calibration std. hexchrome 0 ppm	WP112375	03/20/2025	03/21/2025	Rubina Mughal	None	None	Iwona Zarych 03/20/2025

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
109	calibration std. hexchrome 0.01 ppm	WP112376	03/20/2025	03/21/2025	Rubina Mughal	None	WETCHEM_PIPETTE_3 (WC)	Iwona Zarych 03/20/2025

FROM 99.80000ml of W3112 + 0.20000ml of WP112374 = Final Quantity: 100.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3800	Calibration Std Hexachrome 0.025 ppm	WP112377	03/20/2025	03/21/2025	Rubina Mughal	None	WETCHEM_PIPETTE_3 (WC)	Iwona Zarych 03/20/2025

FROM 99.50000ml of W3112 + 0.50000ml of WP112374 = 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
108	Calibration Std. hexchrome 0.05 ppm	WP112378	03/20/2025	03/21/2025	Rubina Mughal	None	WETCHEM_PIPETTE_3 (WC)	Iwona Zarych 03/20/2025

FROM 99.00000ml of W3112 + 1.00000ml of WP112374 = Final Quantity: 100.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
107	Calibration Std. hexchrome 0.1 ppm	WP112379	03/20/2025	03/21/2025	Rubina Mughal	None	WETCHEM_PIPETTE_3 (WC)	Iwona Zarych 03/20/2025

FROM 99.80000ml of W3112 + 0.20000ml of WP111315 = 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
3808	Calibration and CCV std HexChrome 0.5PPM	WP112380	03/20/2025	03/21/2025	Rubina Mughal	None	WETCHEM_PIPETTE_3 (WC)	Iwona Zarych 03/20/2025

FROM 99.00000ml of W3112 + 1.00000ml of WP111315 = Final Quantity: 100.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3809	Calibration std HexChrome 1.0PPM	WP112381	03/20/2025	03/21/2025	Rubina Mughal	None	WETCHEM_PIPETTE_3 (WC)	Iwona Zarych 03/20/2025

FROM 98.00000ml of W3112 + 2.00000ml of WP111315 = 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
3804	Hexavalent Chromium ICV-LCS Std	WP112382	03/20/2025	03/21/2025	Rubina Mughal	None	WETCHEM_PIPETTE_3 (WC)	Iwona Zarych 03/20/2025

FROM 99.00000ml of W3112 + 1.00000ml of WP111316 = Final Quantity: 100.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
2456	COD Stock std, 1000ppm	WP112409	03/21/2025	03/28/2025	Niha Farheen Shaik	WETCHEM_SCALE_5 (WCSC-5)	None	Iwona Zarych 03/21/2025

FROM 0.08500gram of W3169 + 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
2457	COD Stock std-SS, 1000ppm	WP112410	03/21/2025	03/28/2025	Niha Farheen Shaik	WETCHEM_SCALE_5 (WCSC-5)	None	Iwona Zarych 03/21/2025

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
2458	COD CCV std, 50ppm	WP112411	03/21/2025	03/28/2025	Niha Farheen Shaik	None	WETCHEM_PIPETTE_3 (WC)	Iwona Zarych 03/21/2025

FROM 9.50000ml of W3112 + 0.50000ml of WP112409 = 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
2459	COD ICV-LCS std, 50ppm	WP112412	03/21/2025	03/28/2025	Niha Farheen Shaik	None	WETCHEM_PIPETTE_3 (WC)	Iwona Zarych 03/21/2025

FROM 9.50000ml of W3112 + 0.50000ml of WP112410 = Final Quantity: 10.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3700	Sulfate Calibration std, 0ppm	WP112473	03/26/2025	04/02/2025	Niha Farheen Shaik	None	None	Iwona Zarych 03/26/2025

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
3705	Sulfate Calibration std, 5ppm	WP112474	03/26/2025	04/02/2025	Niha Farheen Shaik	None	WETCHEM_PIPETTE_3 (WC)	Iwona Zarych 03/26/2025

FROM 99.50000ml of W3112 + 0.50000ml of WP110308 = Final Quantity: 100.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3701	Sulfate Calibration std, 10ppm	WP112475	03/26/2025	04/02/2025	Niha Farheen Shaik	None	WETCHEM_PIPETTE_3 (WC)	Iwona Zarych 03/26/2025

FROM 99.00000ml of W3112 + 1.00000ml of WP110308 = 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
3698	Sulfate Calibration std, 15ppm	WP112476	03/26/2025	04/02/2025	Niha Farheen Shaik	None	WETCHEM_PIPETTE_3 (WC)	Iwona Zarych 03/26/2025

FROM 98.50000ml of W3112 + 1.50000ml of WP110308 = Final Quantity: 100.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3702	Sulfate Calibration std, 20ppm	WP112477	03/26/2025	04/02/2025	Niha Farheen Shaik	None	WETCHEM_PIPETTE_3 (WC)	Iwona Zarych 03/26/2025

FROM 98.00000ml of W3112 + 2.00000ml of WP110308 = 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
3699	Sulfate Calibration std, 25ppm	WP112478	03/26/2025	04/02/2025	Niha Farheen Shaik	None	WETCHEM_PIPETTE_3 (WC)	Iwona Zarych 03/26/2025

FROM 97.50000ml of W3112 + 2.50000ml of WP110308 = Final Quantity: 100.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3703	Sulfate Calibration std, 30ppm	WP112479	03/26/2025	04/02/2025	Niha Farheen Shaik	None	Glass Pipette-A	Iwona Zarych 03/26/2025

FROM 97.00000ml of W3112 + 3.00000ml of WP110308 = 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
3706	Sulfate Calibration std, 35ppm	WP112480	03/26/2025	04/02/2025	Niha Farheen Shaik	None	Glass Pipette-A	Iwona Zarych 03/26/2025

FROM 96.50000ml of W3112 + 3.50000ml of WP110308 = Final Quantity: 100.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3704	Sulfate Calibration std, 40ppm	WP112481	03/26/2025	04/02/2025	Niha Farheen Shaik	None	Glass Pipette-A	Iwona Zarych 03/26/2025

FROM 96.00000ml of W3112 + 4.00000ml of WP110308 = 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
359	sulfate CCV 20ppm	WP112482	03/26/2025	04/02/2025	Niha Farheen Shaik	None	Glass Pipette-A	Iwona Zarych 03/26/2025

FROM 98.00000ml of W3112 + 2.00000ml of WP110308 = Final Quantity: 100.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
360	sulfate ICV 20ppm	WP112483	03/26/2025	04/02/2025	Niha Farheen Shaik	None	Glass Pipette-A	Iwona Zarych 03/26/2025

FROM 98.00000ml of W3112 + 2.00000ml of WP110309 = 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
3415	Sulfate LCS std, 20ppm	WP112484	03/26/2025	04/02/2025	Niha Farheen Shaik	None	Glass Pipette-A	Iwona Zarych 03/26/2025

FROM 98.00000ml of W3112 + 2.00000ml of WP110309 = Final Quantity: 100.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1843	HEXAMETHYLENETETRAMINE SOLUTION 1	WP112513	03/26/2025	04/26/2025	Niha Farheen Shaik	WETCHEM_SCALE_5 (WCSC-5)	None	Iwona Zarych 03/28/2025

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	WP112516	03/26/2025	04/26/2025	Niha Farheen Shaik	WETCHEM_SCALE_5 (WCSC-5)	None	Iwona Zarych 03/28/2025

FROM 1.00000gram of W3078 + 90.00000ml 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	WP112517	03/26/2025	04/26/2025	Niha Farheen Shaik	None	None	Iwona Zarych 03/28/2025

FROM 90.00000ml of W3112 + 5.00000ml of WP112513 + 5.00000ml of WP112516 = 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
3718	Turbidity Calibration std, 40NTU	WP112518	03/27/2025	03/28/2025	Niha Farheen Shaik	None	None	Iwona Zarych 03/28/2025

FROM 90.00000ml of W3112 + 10.00000ml of WP112517 = Final Quantity: 100.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3714	Turbidity Calibration std, 20NTU	WP112519	03/27/2025	03/28/2025	Niha Farheen Shaik	None	None	Iwona Zarych 03/28/2025

FROM 95.00000ml of W3112 + 5.00000ml of WP112517 = 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
3722	Turbidity Calibration std, 5NTU	WP112520	03/27/2025	03/28/2025	Niha Farheen Shaik	None	None	Iwona Zarych 03/28/2025

FROM 87.50000ml of W3112 + 12.50000ml of WP112518 = Final Quantity: 100.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3720	Turbidity Calibration std, 1NTU	WP112521	03/27/2025	03/28/2025	Niha Farheen Shaik	None	None	Iwona Zarych 03/28/2025

FROM 97.50000ml of W3112 + 2.50000ml of WP112518 = 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	WP112522	03/27/2025	03/28/2025	Niha Farheen Shaik	None	None	Iwona Zarych 03/28/2025

FROM 100.00000ml of W3112 = Final Quantity: 100.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
11	Sodium hydroxide absorbing solution 0.25 N	WP99896	11/15/2022	05/15/2023	Jignesh Parikh	WETCHEM_SCALE_4 (WCSC-4)	None	Iwona Zarych 11/15/2022

FROM 21.00000L of W2606 + 210.00000gram of W2845 = Final Quantity: 21.000 L

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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.	PC19631-100 / SODIUM SULFATE, ANHYDROUS, PEST GRADE, 1	313201	07/01/2025	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 #
Seidler Chemical	BA-9254-03 / Acetone, Ultra Resi (cs/4x4L)	24H2762008	09/18/2025	03/18/2025 / RUPESH	02/12/2025 / RUPESH	E3902

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-9598-34 / Nitric Acid, Instra-Analyzed (cs/4x2.5L)	23G1262003	07/30/2025	02/08/2024 / Al-Terek	06/26/2023 / Al-Terek	M5789

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

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CHEMICAL RECEIPT LOG BOOK

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 #
Seidler Chemical	BA-9530-33 / Hydrochloric Acid, Instra-Analyzed (cs/6x2.5L)	0000275677	05/13/2025	11/13/2024 / Eman	10/13/2024 / Eman	M6121

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

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

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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.	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

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

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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.	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

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

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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.	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

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

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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)	0000263246	06/17/2023	12/23/2020 / ketankumar	12/23/2020 / ketankumar	W2783

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

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

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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	21C2456604	01/31/2024	03/30/2022 / JIGNESH	06/24/2021 / apatel	W2845

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

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 /	11/30/2021 / apatel	W2882

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Supelco	90157 / Cyanide Standard, 1000ppm from Supelco	HC03107133	06/30/2023	01/24/2022 / apatel	01/24/2022 / apatel	W2898

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

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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.	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 #
EPA	/ ICV-CN	ICV6-400	12/31/2025	01/08/2025 / Iwona	02/20/2020 / Iwona	W3012

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

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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 #
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.	LC136757 / S-DIPHENYLCARBAZONE 10G	43031219	08/09/2028	08/09/2023 / Iwona	08/09/2023 / Iwona	W3049

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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-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 #
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	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 #
PCI Scientific Supply, Inc.	AL14455-3 / buffer solution pH 7 yellow	4308H30	07/31/2025	01/02/2024 / JIGNESH	12/06/2023 / Iwona	W3071

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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

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.	123260-100G / Sulfanilamide, 100 gms	50091180	06/30/2028	02/26/2024 / Iwona	02/26/2024 / Iwona	W3083

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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

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	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.	AL69870-8 / SODIUM THIOSULFATE,0.025N,4LITRE	4403S13	09/30/2025	04/22/2024 / Iwona	04/22/2024 / Iwona	W3105

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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

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	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

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

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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.	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 #
Environmental Express LTD	B1010 / COD Digestion Vials Low Level 0-150Mg/L	13821	10/31/2027	03/21/2025 / Niha	07/25/2024 / Iwona	W3127

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

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

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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.	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

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

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	431110	11/30/2025	09/18/2024 / Iwona	09/18/2024 / Iwona	W3141

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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	A4169	06/30/2029	11/20/2024 / rubina	10/01/2024 / Iwona	W3144

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
HACH	14064-99 / Total Chlorine Powder Pillows	A4230	08/31/2029	10/01/2024 / Iwona	10/01/2024 / Iwona	W3147

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	MKCW3077	07/31/2029	10/07/2024 / Iwona	10/07/2024 / Iwona	W3148

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	4408P62	08/31/2026	10/16/2024 / Iwona	10/16/2024 / Iwona	W3149

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	235420	03/31/2029	11/04/2024 / Iwona	11/04/2024 / Iwona	W3150

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	530413	04/30/2025	11/25/2024 / jignesh	11/21/2024 / jignesh	W3151

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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.	01237-10KG / Megnasium Chloride Hexahydrate ACS 10KG	002126-2019-201	11/25/2029	11/25/2024 / Iwona	11/25/2024 / Iwona	W3152

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	1411J58	05/31/2025	12/02/2024 / Iwona	12/02/2024 / Iwona	W3154

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,P K100,CS12	14-860	12/02/2029	12/02/2024 / Iwona	12/02/2024 / Iwona	W3155

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	241836	11/30/2025	12/03/2024 / Iwona	12/03/2024 / Iwona	W3156

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)	2411E26	10/31/2026	12/09/2024 / Iwona	12/09/2024 / Iwona	W3161

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	24J2856877	05/29/2027	01/03/2025 / Iwona	01/03/2025 / Iwona	W3167

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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.	P243-500 / Potassium Hydrogen Phthalate, 500 gms	24H0956262	04/28/2026	01/03/2025 / Iwona	01/03/2025 / Iwona	W3169

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	2501J28	07/31/2025	01/24/2025 / Iwona	01/24/2025 / Iwona	W3174

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	50107308	07/31/2028	01/24/2025 / Iwona	01/24/2025 / Iwona	W3176

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)	24G1962003	08/22/2025	02/03/2025 / jignesh	01/31/2025 / jignesh	W3177

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	V2-MEB742616	02/19/2026	02/19/2025 / Iwona	01/27/2025 / Iwona	W3180

Chem-Impex International, Inc.

Tel: (630) 766-2112
Fax: (630) 766-2218
E-mail: sales@chemimpex.com
Web site: www.chemimpex.com
Shipping and Correspondence:
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
AP

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.

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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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ISO 13485 CERTIFIED

AMRESCO LLC
28600 Fountain Parkway
Solon, Ohio USA 44139
440/349-1199 FAX: 440/349-1182
www.amresco-inc.com
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

	Requirement			
Characteristic	**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

W2699 Received on 3/11/2020 by AP

Subject to Vadodara Jurisdiction

CPC Industries

CHAMPA PURIE-CHEM INDUSTRIES

ISO 9001 : 2015 CERTIFIED COMPANY

Importers Exporters Manufacturers & Marketing of Fine Chemicals & Pharmaceuticals

262-263, G.I.D.C. Estate,
Makarpura,
Vadodara - 390 010.
Gujarat - INDIA.

Phone : (F) +91-265-2633314 / 2643723
Fax : (F) +91-265-2638036
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

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)	99.35%	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

W2898 Received by AP on 01/24/2022

Certificate of Analysis

1.19533.0500 Cyanide standard solution traceable to SRM from NIST $K_2[Zn(CN)_4]$ in H_2O 1000 mg/l CN Certipur®

Batch HC03107133

		Batch Values	
Concentration	β (CN^-)	1002	mg/l

Determination method: Argentometric titration.
The content of this solution was determined with silver nitrate standard solution (article number 1.09081) standardized against volumetric standard sodium chloride (article number 1.02406). The expanded measurement uncertainty is ± 0.7 % (k=2 coverage factor for 95% coverage probability). The certified value is traceable to primary standard NIST SRM 999c (NIST: National Institute of Standards and Technology, USA) by means of volumetric standard sodium chloride, measured in the accredited calibration laboratory of Merck KGaA, Darmstadt, Germany in accordance to DIN EN ISO/IEC 17025.

Date of release (DD.MM.YYYY) 02.07.2020
Minimum shelf life (DD.MM.YYYY) 30.06.2023

Ayfer Yildirim
Responsible laboratory manager quality control

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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

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

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.

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W2783 Receiveived by AP on 12/23/2020

Acetone
ULTRA RESI-ANALYZED
For Organic Residue Analysis

Material No.: 9254-03
Batch No.: 0000263246
Manufactured Date: 2020/06/17
Expiration Date: 2023/06/17
Revision No: 1

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	<= 1.0000 ppm	0.1000
Substances Reducing Permanganate	Passes Test	PT
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	5

For Laboratory, Research or Manufacturing Use
MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

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
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

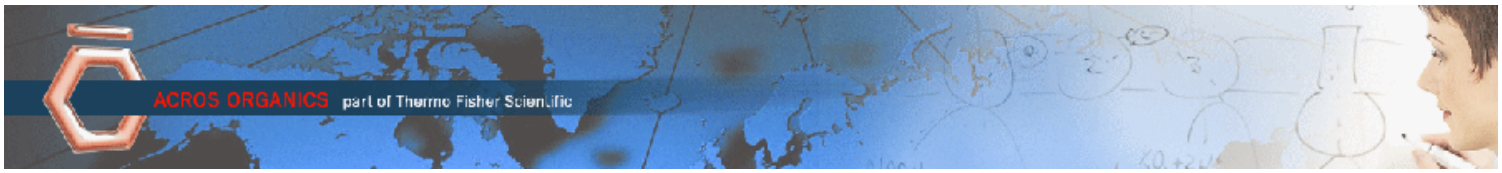
Test	Limits	Results
Assay	99.0 - 102.0 %	99.67 %
Insoluble	0.01 % max	0.0079 %
Chloride	0.02 % max	Not detected
Sulfate	To pass test	Passes test
Aqueous solubility	To pass test	Passes test
Limit on Ferricyanide	To pass test	Passes test
Limit on Ferrocyanide	To pass test	Passes test

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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

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 12

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.

~~H2278~~ W2983

Rec. 11/21/22 ,2

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Website: www.sigmaaldrich.com
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Outside USA: eurtechserv@sial.com

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

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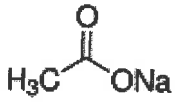
W2984
W2985

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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

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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

Sigma-Aldrich.

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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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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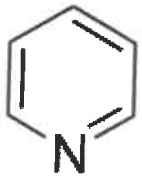
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Certificate of Analysis

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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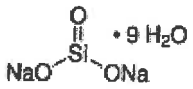
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Certificate of Analysis

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)	Colorless	Colorless
Solubility (Turbidity) 50 mg/ml, H2O	Clear	Clear
Titration with HCl	≥ 98 %	100 %

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.

W 3035
Lec. 6/6/23 12

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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

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.

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
Website: www.sigmaaldrich.com
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.

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: **SLCN4535**

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.

N 3055

Sigma-Aldrich.

rec. 09/14/23

12

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 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.

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.

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

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EMD Millipore is a division of Merck KGaA, Darmstadt, Germany

EMD Millipore Corporation
400 Summit Drive
Burlington, MA 01803
U.S.A.

W 3059
rec. 10/18/23 12

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

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REGISTERED FIRM

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Christiansburg, VA 24073 USA
inorganicventures.com

W3063
rec. 11/16/23 12

P: 800-669-6799/540-585-3030
F: 540-585-3012
info@inorganicventures.com

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

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

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

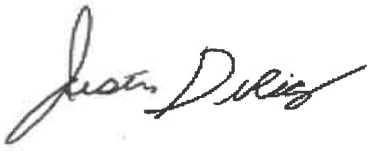
- Sealed TCT Bag Open Date: _____

- 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



RICCA CHEMICAL COMPANY®

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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
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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

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EMD Millipore is a division of Merck KGaA, Darmstadt, Germany

EMD Millipore Corporation
400 Summit Drive
Burlington, MA 01803
U.S.A.

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

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 - 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

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	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

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	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.

Recd. by RB on 7/24/23 E3551

PO: PO2-798 PRODUCT CODE: SHIP DATE: 12/9/2024

Acetone
BAKER RESI-ANALYZED® Reagent
For Organic Residue Analysis

avantor | J.T.Baker

Material No.: 9254-03
Batch No.: 24H2762008
Manufactured Date: 2024-04-18
Expiration Date:2027-04-18
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay ($(CH_3)_2CO$) (by GC, corrected forwater)	>= 99.4 %	100.0 %
Color (APHA)	<= 10	5
Residue after Evaporation	<= 1.0 ppm	0.0 ppm
Substances Reducing Permanganate	Passes Test	Passes Test
Titrable Acid (µeq/g)	<= 0.3	0.2
Titrable Base (µeq/g)	<= 0.6	<0.1
Water (H_2O)	<= 0.5 %	<0.1 %
FID-Sensitive Impurities (as 2-Octanol)Single Impurity Peak (ng/mL)	<= 5	1
ECD Sensitive Impurities (as HeptachlorEpoxide) Single Peak (pg/mL)	<= 10	1

For Laboratory,Research,or Manufacturing Use
MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: United States
Packaging Site: Phillipsburg Mfg Ctr & DC

E 3902

JCroak
Jamie Croak
Director Quality Operations, Bioscience Production

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

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

Sodium Chloride, Crystal
BAKER ANALYZED® A.C.S. Reagent

M5493 - M5708
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

9673- 33

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

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
Valencienner Str. 11
52355 Düren · Germany
www.mn-net.com

DE Tel.: +49 24 21 969-0 info@mn-net.com
CH Tel.: +41 62 388 55 00 sales-ch@mn-net.com
FR Tel.: +33 388 68 22 68 sales-fr@mn-net.com
US Tel.: +1 888 321 62 24 sales-us@mn-net.com

Hydrochloric Acid, 36.5-38.0%
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis

avantor™ | J.T.Baker®

R → 10/13/24
Met dig

M 6121

Material No.: 9530-33
Batch No.: 0000275677
Manufactured Date: 2020/12/16
Retest Date: 2025/12/15
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	1.190
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	< 0.2
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	29.7
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

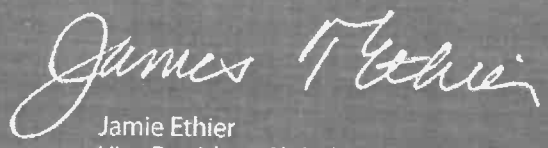
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Avantor Performance Materials, LLC
100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone: 610.386.1700

Material No.: 9530-33
Batch No.: 0000275677

Test	Specification	Result
Trace Impurities - Germanium (Ge)	<= 3.0 ppb	< 2.0
Trace Impurities - Gold (Au)	<= 4.0 ppb	< 0.2
Heavy Metals (as Pb)	<= 100 ppb	< 50
Trace Impurities - Iron (Fe)	<= 15.0 ppb	<1
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	0.1
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	< 10.0
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	0.3
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



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

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

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E-mail : info@cpcindia.com
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

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

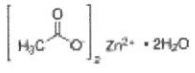
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3050 Spruce Street, Saint Louis, MO 63103, USA
Website: www.sigmaaldrich.com
Email USA: techserv@sial.com
Outside USA: eurtechserv@sial.com

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.

Sigma-Aldrich.

W 2979

Rec: 12/08/22

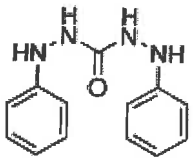
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Website: www.sigmaaldrich.com
Email USA: techserv@sial.com
Outside USA: eurtechserv@sial.com

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

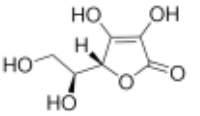
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Website: www.sigmaaldrich.com
Email USA: techserv@sial.com
Outside USA: eurtechserv@sial.com

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.

BEANTOWN CHEMICAL

W3083 Received on 2/26/2024 by IZ

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	

This certificate of analysis has been electronically generated and is valid without a signature.

BEANTOWN CHEMICAL CORPORATION, 9 SAGAMORE PARK ROAD, HUDSON NH 03051

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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
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

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W3094 78 opuc: 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

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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
This document is designed to comply with ISO Guide 31 "Reference Materials -- Contents of Certificates and Labels."

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RICCA CHEMICAL COMPANY®
W3103 Received on 4/22/24 by IZ

1841 Broad Street
Pocomoke City, MD 21851
http://www.riccachemical.com
1-888-GO-RICCA
customerservice@riccachemical.com

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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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
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

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Arlington, TX 76012
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customerservice@riccachemical.com

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

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.

RICCA CHEMICAL COMPANY®

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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

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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

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BEANTOWN CHEMICAL CORPORATION, 9 SAGAMORE PARK ROAD, HUDSON NH 03051

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W3127 rec. 7/25/24 12
W3128 exp. 10/31/27
W3129

ENVIRONMENTAL EXPRESS
Charleston, SC USA
www.envexp.com
(800) 343-5319

October 27, 2022

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	13821	COD Reagent Vials, 0 - 150 ppm

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

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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.

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

2024080113:32:16bsturges-0-0

ThermoFisher SCIENTIFIC

Certificate of Analysis

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

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.

CORCO CHEMICAL CORPORATION

Manufacturers of ACS Reagents and Semiconductor Grade Chemicals

W3141 Rec on 9/18/24 by IZ

CERTIFICATE OF ANAYLYSIS

Date: 11/10/2023 **Lot No. 431110**

Ammonium Hydroxide, ACS
Reagent Grade

TEST	MAXIMUM LIMITS	RESULT
Appearance	Colorless and free from Suspended matter or sediment	Pass
Assay	28-30%	29.85%
Residue after ignition	0.002%	.0005%
Carbon Dioxide (CO_2)	0.002%	.0001%
Chloride	0.5 ppm	<.2 ppm
Phosphate (PO_4)	2 ppm	< 1 ppm
Total Sulfur (as SO_4)	2 ppm	< 1 ppm
Heavy Metals (as Pb)	0.5 ppm	< .05 ppm
Iron (Fe)	0.2 ppm	< .02 ppm
Sub. Red. Permanganate	Passes Test	Pass
Nitrate (NO_3)	2 ppm	< 1 ppm
Specific Gravity @ 60 Degrees	0.896- 0.902	Pass

Date of MFG: 11/2023
Retest Date: 11/2025

CORCO CHEMICAL CORPORATION. 299 CEDAR LANE. FAIRLESS HILLS PA 19030. 215-295-5006. FAX 215-295-0781

Loveland, CO 80539
(970) 669-3050

An ISO 9001 Certified Company

Certificate of Analysis

This is a Component of 1486266 / LOT A4169

PRODUCT: BOD Nutrient Buffer Pillows

PRODUCT NUMBER: 1486227

LOT NUMBER: A4169

MANUFACTURE DATE: 06/24/2024

DATE OF ANALYSIS: 07/03/2024

TEST	SPECIFICATIONS	RESULTS
Calcium Concentration of a diluted pillow	0.93 to 1.29 ppm	0.960 ppm
Magnesium Concentration of a diluted pillow	0.35 to 0.48 ppm	0.390 ppm
pH in a 6 L of DI water	7.1 to 7.6	7.37
Ammonia Concentration of a diluted pillow	0.57 to 0.79 ppm	0.593 ppm
Iron Concentration of a diluted pillow	0.27 to 0.36 ppm	0.311 ppm
Sterility	To Pass	Passed
Phosphorus Concentration of a diluted pillow	7.6 to 10.3 ppm	8.32 ppm
Five Day Change in Dissolved Oxygen Concentration	-0.2 to 0.2 ppm	0.03 ppm

The expiration date is Jun 2029

Certified by: Scott Als

Analytical Services Chemist

Loveland, CO 80539
(970) 669-3050

An ISO 9001 Certified Company

Certificate of Analysis

PRODUCT: DPD Total Chlorine Reagent

PRODUCT NUMBER: 1406499

LOT NUMBER: A4230

MANUFACTURE DATE: 08/27/2024

DATE OF ANALYSIS: 08/28/2024

TEST	SPECIFICATIONS	RESULTS
Percent Recovery for a 2.5 ppm Standard. Chlorine concentration determined using DPD compared to the actual concentration.	93 to 107 %	95.7 %
pH of reagent in 50 mL of DI water.	6.2 to 6.5	6.40
Percent Recovery for a 5.0 ppm Standard. Chlorine concentration determined using DPD compared to the actual concentration.	93 to 107 %	96.2 %
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 Aug 2029

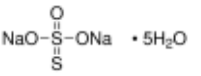
Certified by: Scott Als

Analytical Services Chemist

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:	**MKCW3077**
Brand:	SIGALD
CAS Number:	10102-17-7
MDL Number:	MFCD00149186
Formula:	Na2O3S2 · 5H2O
Formula Weight:	248.18 g/mol
Quality Release Date:	12 JUL 2024
Recommended Retest Date:	JUL 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 %	100.2 %
pH c = 5%; Water; At 25 Deg C	6.0 - 8.4	6.1
Insoluble Matter c = 10%; Water	≤ 0.005 %	< 0.001 %
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.

RICCA CHEMICAL COMPANY®

W3149 Received on 10/16/24 by IZ

1490 Lammers Pike
Batesville, IN 47006
http://www.riccachemical.com
1-888-GO-RICCA
customerservice@riccachemical.com

Certificate of Analysis

Starch Indicator, 0.5% (w/v), Mercury Free, for Iodometric Titrations

Lot Number: 4408P62 **Product Number:** 8000

Manufacture Date: AUG 28, 2024
Expiration Date: AUG 2026

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
8000-16	500 mL natural poly	24 months
8000-32	1 L natural poly	24 months

Recommended Storage: 15°C - 30°C (59°F - 86°F)



Paul Brandon (08/28/2024)
Production Manager

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W3150 Received on 11/4/24 by IZ

Certificate of Analysis

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 – 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	SA226	Quality Test / Release Date	03/18/2024
Lot Number	235420		
Description	SULFURIC ACID, 0.02N, CERTIFIED		
Country of Origin	United States	Suggested Retest Date	Mar/2029

N/A			
Result Name	Units	Specifications	Test Value
APPEARANCE		REPORT	Clear, colorless liquid
COLOR	APHA	<= 5	<5
IDENTIFICATION	PASS/FAIL	= PASS TEST	PASS TEST
NORMALITY		Inclusive Between 0.0198 - 0.0202	0.0200
TRACEABLE TO NIST KHP STD	POT. ACID PHTHALATE	= LOT 84L	SRM 84l

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.

CORCO CHEMICAL CORPORATION

Manufacturers of ACS Reagents and Semiconductor Grade Chemicals

W3151
opened
11/25/2024

CERTIFICATE OF ANALYSIS

Date: 4/13/23

Lot No. 530413

Acetic Acid, Glacial (ACS)
Reagent Grade

TEST	MAXIMUM LIMITS	RESULT
Appearance	Colorless and free from suspended matter or sediment	Pass
Assay	99.7 min.	99.97%
Color (APHA)	10	5
Dilution Test	Passes Test	Pass
Residue after evaporation	0.001%	0.0003%
Acetic Anhydride	0.01%	0.00%
Chloride (cl)	1 ppm	<1 ppm
Sulfate (SO_4)	1 ppm	<1 ppm
Heavy Metals (as Pb)	0.5ppm	<0.02 ppm
Iron (Fe)	0.2ppm	<0.1 ppm
Sub. Red. Dichromate	Passes Test	Pass
Sub. Red. Permanganate	Passes Test	Pass
Titratable Base	0.0004meq/g	<0.0002 meq/g

DATE OF MFG: 4/2023
RETEST DATE: 4/2025

CORCO CHEMICAL CORPORATION. 299 CEDAR LANE. FAIRLESS HILLS, PA 19030. 215-295-5006. FAX 215-295-0781

W3152 Received on 11/25/24 by IZ

Chem-Impex International, Inc.

Tel: (630) 766-2112
Fax: (630) 766-2218
E-mail: sales@chemimpex.com
Web site: www.chemimpex.com
Shipping and Correspondence:
935 Dillon Drive
Wood Dale, IL 60191
Manufacturing site:
825 Dillon Drive
Wood Dale, IL 60191

Certificate of Analysis

Catalogue Number	01237
Lot Number	002126-2019-201
Product	**Magnesium chloride hexahydrate**
	Magnesium chloride•$6H_2O$
CAS Number	7791-18-6
Molecular Formula	$MgCl_2$•$6H_2O$
Molecular Weight	203.3

Appearance	White crystals
Solubility	167 g in 100 mL water
Melting Point	~ 115 °C
Heavy Metals	4.393 ppm
Anion	Nitrate (NO_3) : < 0.001% Phosphate (PO_4) : < 5 ppm Sulfate (SO_4) : < 0.002%
Cation	Ammonium (NH_4) : < 0.002% Barium (Ba) : 0.005% Calcium (Ca) : 0.01% Iron (Fe) : 4.5 ppm Manganese (Mn) : 0.624 ppm Potassium (K) : 0.004% Sodium (Na) : 0.000003% Strontium (Sr) : 0.005%
Insoluble material	0.0021%
Assay by titration	100.83%
Grade	ACS reagent
Storage	Store at RT

Certificate of Analysis

Catalog Number: 01237 **Lot Number: 002126-2019-201**

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

RICCA CHEMICAL COMPANY®
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448 West Fork Dr
Arlington, TX 76012
http://www.riccachemical.com
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Certificate of Analysis

Cyanide Standard, 1000 ppm CN^-

Lot Number: 1411J58 **Product Number:** 2543

Manufacture Date: NOV 22, 2024
Expiration Date: MAY 2025

This standard is prepared using accurate volumetric techniques from material that has been assayed against Silver Nitrate solution certifiec 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)
2543-16	500 mL amber poly	6 months
2543-32	1 L amber poly	6 months
2543-4	120 mL amber poly	6 months

Recommended Storage: 2°C - 8°C (36°F - 46°F)



Luis Briceno (11/22/2024)
Operations Supervisor

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Certificate of Analysis

Item Number	Product Description	Lot Number
SX0770-1	Sodium Sulfide Nonahydrate, ACS Grade, 500GM	241836
Formula	**Molecular Weight**	**CAS Number**
$Na_2S \bullet 9H_2O$	240.18 g/mol	1313-84-4

QC TEST/RELEASE DATE: 10/09/2024 **SUGGESTED RETEST DATE:** 11/30/2025

S.No	Test	Unit	Specifications	Test Value
1	Appearance (Color)		Colorless to Very Faint Yellow and White to Faint Yellow	White
2	Appearance (Form)		Crystals or Chunks	Crystals
3	Titration by $Na_2S_2O_3$	%	≥ 98.0	98.1
4	Ammonium (NH_4)	%	≤ 0.005	< 0.005
5	Assay (Sulfite and Thiosulfate)	%	≤ 0.1	0.08
6	Iron (Fe)		Pass	passed
7	BSE/TSE Free		BSE/TSE Free	passed
8	Grade		Meets ACS Specifications	passed
9	Country of Origin		Ukraine	Ukraine

Intended for laboratory and manufacturing use only. Not for drug, food, or household use.
This is an electronically generated document and does not require signatures.

Certified By : Joe Schoellkopff,
Quality Control Manager

EMD Millipore is a division of Merck KGaA, Darmstadt, Germany

EMD Millipore Corporation
400 Summit Drive
Burlington, MA 01803
U.S.A

RICCA CHEMICAL COMPANY®

W3161 Rec. on 12/09/24 by IZ

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Pocomoke City, MD 21851
http://www.riccachemical.com
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Certificate of Analysis

Buffer, Reference Standard, pH 2.00 ± 0.01 at 25°C

Lot Number: 2411E26 **Product Number:** 1493

Manufacture Date: NOV 11, 2024
Expiration Date: OCT 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	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)	1.994	0.02	185i, 186-I-g, 186-II-g

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)
1493-1	4 L natural poly	24 months
1493-16	500 mL natural poly	24 months
1493-1CT	4 L Cubitainer®	24 months
1493-2.5	10 L Cubitainer®	24 months
1493-32	1 L natural poly	24 months

Recommended Storage: 15°C - 30°C (59°F - 86°F)



Jose Pena (11/11/2024)
Operations Manager

This product was tested in an ISO 17025 Accredited Laboratory

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Certificate of Analysis

Magnesium Sulfate Heptahydrate

Material: 0662

Grade: ACS GRADE

Batch Number: 24J2856877

Chemical Formula: MgSO4.7H2O
Molecular Weight: 246.48
CAS #: 10034-99-8
Appearance:

White powder

Manufacture Date: 05/29/2023
Reassay Date: 05/29/2027

Storage: Room Temperature

TEST	SPECIFICATION	ANALYSIS	DISPOSITION
Ammonium	<= 0.002 %	<0.001 %	PASS
Calcium	<= 0.02 %	<0.0005 %	PASS
Chloride	<= 0.0005 %	0.0001 %	PASS
Heavy Metals (as Pb)	<= 0.0005 %	<0.0001 %	PASS
Insolubles	<= 0.005 %	<0.0002 %	PASS
Iron	<= 0.0005 %	<0.00001 %	PASS
Manganese	<= 0.0005 %	<0.0001 %	PASS
Nitrate	<= 0.002 %	<0.001 %	PASS
pH (5%, Water) @25C	5.0 - 8.2	6.3	PASS
Potassium	<= 0.005 %	<0.001 %	PASS
Purity	98.0 - 102.0 %	100.1 %	PASS
Sodium	<= 0.005 %	<0.001 %	PASS
Strontium	<= 0.005 %	<0.00001 %	PASS

Internal ID #: 793

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

Magnesium Sulfate Heptahydrate

Material: **0662**

Grade: **ACS GRADE**

Batch Number: **24J2856877**

Chemical Formula:	MgSO4.7H2O	Manufacture Date:	05/29/2023
Molecular Weight:	246.48	Reassay Date:	05/29/2027
CAS #:	10034-99-8		
Appearance:		Storage:	Room Temperature

White powder

Spec Set: 0662ACS

Internal ID #: 793

Signature

We certify that this batch conforms to the specifications listed.

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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

Material	BDH9260-500G
Material Description	BDH POTASS HYDRGN PHTHLTE 500G
Grade	ACS GRADE
Batch	24H0956262
Reassay Date	04/28/2026
CAS Number	877-24-7
Molecular Formula	HOOCC6H4COOK
Molecular Mass	204.22
Date of Manufacture	04/29/2023
Storage	Room Temperature

Characteristics	Specifications	Measured Values
Appearance	White crystals.	White crystals.
Assay (dried basis)	99.95 - 100.05 %	99.98 %
Chlorine Compounds	<= 0.003 %	<0.003 %
Heavy Metals (as Pb)	<= 5 ppm	<5 ppm
Insoluble Matter	<= 0.005 %	0.003 %
Iron	<= 5 ppm	<5 ppm
pH (0.05M, Water) @25C	4.00 - 4.02	4.00
Sodium	<= 0.005 %	<0.005 %
Sulfur Compounds	<= 0.002 %	<0.002 %

Internal ID #: 322

Signature

We certify that this batch conforms to the specifications listed above.

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

Sodium Hypochlorite Solution, 5% available Chlorine

Lot Number: 2501J28 **Product Number:** 7495.5

Manufacture Date: JAN 17, 2025
Expiration Date: JUL 2025

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	5.17 % (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
7495.5-32	1 L amber poly	6 months
7495.5-8	250 mL amber poly	6 months

Recommended Storage: 15°C - 30°C (59°F - 86°F)

Jose Pena (01/17/2025)
Operations Manager

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BEANTOWN CHEMICAL

Certificate of Analysis

Catalog Number	212760
Product Description	4-Aminoantipyrine, 97%
CAS Number	83-07-8
Lot Number	50107308

Test Results

	Specifications	**Results**
Assay	≥97.0% min	99.61%
Appearance	Light yellow to tan fine crystals	Conforms
Identification	To pass test	Passes test
Melting Point	107-109°C	107.5-108.6°C
Sensitivity to phenol	To pass test	Passes test
Residue after Ignition	≤0.10%	0.09%
Loss on drying	≤0.5%	0.08%
Clarity of solution (1g/20ml water)	Clear solution	Clear solution
Clarity of solution (1g/20ml EtOH)	Clear solution	Clear solution
Suggested retest date	July 2028	

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BEANTOWN CHEMICAL CORPORATION, 9 SAGAMORE PARK ROAD, HUDSON NH 03051

WWW.BEANTOWNCHEM.COM TOLL FREE: 1-844-891-6306 EMAIL: TECHNICAL@BEANTOWNCHEM.COM

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W3147

W3147 update. 02/03/2025 JP

Material No.: 9262-03
Batch No.: 24G1962003
Manufactured Date: 2024-05-23
Expiration Date: 2025-08-22
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	≤ 5	3
ECD Sensitive Impurities (as Heptachlor Epoxide) Single Peak (pg/mL)	≤ 10	1
ECD-Sensitive Impurities (as Ethylene Dibromide) - Single Impurity Peak (ng/mL)	≤ 5	1
Assay (Total Saturated C_6 Isomers) (by GC, corrected for water)	≥ 99.5 %	99.7 %
Assay (as n-Hexane) (by GC, corrected for water)	≥ 95 %	98 %
Color (APHA)	≤ 10	5
Residue after Evaporation	≤ 1.0 ppm	0.1 ppm
Substances Darkened by H_2SO_4	Passes Test	Passes Test
Water (by KF, coulometric)	≤ 0.05 %	< 0.01 %

For Laboratory,Research,or Manufacturing Use
MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

JCroak

Jamie Croak
Director Quality Operations, Bioscience Production

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Certificate of Analysis

300 Technology Drive
Christiansburg, VA 24073 USA
inorganicventures.com

P: 800-669-6799/540-585-3030
F: 540-585-3012
info@inorganicventures.com

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:	V2-MEB742616
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**	**30.01 ± 0.13 µg/mL**
Fluoride, F-	**20.00 ± 0.07 µg/mL**	**Nitrate as N, NNO3-**	**25.00 ± 0.10 µg/mL**
Nitrite as N, NNO2-	**30.00 ± 0.10 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 ºC)

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	08228TH-H2
NNO2-	Calculated	40h	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

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

April 02, 2024

- 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

- **April 02, 2029**

- 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

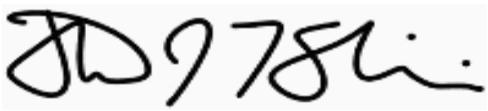
Certificate Prepared By:

Uyen Truong
Custom Processing Supervisor



Certificate Approved By:

Thomas Kozikowski
Stock VS Manager



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director



SHIPPING DOCUMENTS

phenova® Certified Reference Materials | A Phenomenex® Company

Packing List

Date	Order #
03/03/2025	333289

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

Alliance Tech Group - Newark
ATTN: Sohil Jodhani
284 Sheffield St., #1
Mountainside, NJ 07092
USA

Received by: SJ
3/5/2025 14:30

Customer PO #	Terms	PT Acct #	Customer #	Ship Via	F.O.B.
PO2-1517	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	WP0325	8264-04
1	1	0	PT-HG-WP	WP Mercury	WP0325	8264-05
1	1	0	PT-SNTI-WP	WP Tin & Titanium	WP0325	8264-38
1	1	0	PT-CR6-WP	WP Hexavalent Chromium	WP0325	8264-06
1	1	0	PT-DEM-WP	WP Demand	WP0325	8264-07
			PT-MINSET-WP	WP Minerals Set : (MIN1, MIN2 and COND)		
1	1	0	PT-MIN1-WP	WP Minerals 1 Only	WP0325	8264-08
1	1	0	PT-MIN2-WP	WP Minerals 2 Only	WP0325	8264-102
1	1	0	PT-COND-WP	WP Conductivity Only	WP0325	8264-72
1	1	0	PT-SOL-WP	WP Solids	WP0325	8264-09
			PT-NUTSET-WP	WP Nutrients Set : (NUT1, NUT2 and NUT3)		
1	1	0	PT-NUT1-WP	WP NUT1 Simple Nutrients Only	WP0325	8264-10
1	1	0	PT-NUT2-WP	WP NUT2 - Complex Nutrients	WP0325	8264-11
1	1	0	PT-NUT3-WP	WP NUT3 - Nitrite Only	WP0325	8264-69
1	1	0	PT-OGR1L-WP	WP Oil and Grease 1L	WP0325	8264-103
1	1	0	PT-CL-WP	WP Residual Chlorine	WP0325	8264-13
1	1	0	PT-PH-WP	WP pH	WP0325	8264-15
1	1	0	PT-CN-WP	WP Cyanide	WP0325	8264-14
1	1	0	PT-PHEN-WP	WP Phenolics	WP0325	8264-16

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PO2-1517	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	WP0325	8264-22
1	1	0	PT-SSOL-WP	WP Settleable Solids	WP0325	8264-17
1	1	0	PT-TURB-WP	WP Turbidity	WP0325	8264-20
1	1	0	PT-VOA-WP	WP Volatiles	WP0325	8264-26
1	1	0	PT-BN-WP	WP Base Neutrals	WP0325	8264-27
1	1	0	PT-ACIDS-WP	WP Acids	WP0325	8264-28
1	1	0	PT-PEST-WP	WP Pesticides	WP0325	8264-29
1	1	0	PT-CHLR-WP	WP Chlordane	WP0325	8264-30
1	1	0	PT-TXP-WP	WP Toxaphene	WP0325	8264-31
1	1	0	PT-PCBW-WP	WP PCBs in Water	WP0325	8264-32
1	1	0	PT-HERB-WP	WP Herbicides	WP0325	8264-36
1	1	0	RR-TPH1L-WP	WP TPH 1L	R40367	R40367-104
1	1	0	RR-VSOL-WP	WP Volatile Solids	R40367	R40367-18
1	1	0	RR-SIO2-WP	WP Silica	R40367	R40367-21
1	1	0	RR-COL-WP	WP Color	R40367	R40367-51
1	1	0	RR-GAS-WP	WP Gasoline Range Organics	R40367	R40367-62
1	1	0	RR-DIES-WP	WP Diesel Range Organics	R40367	R40367-63
1	1	0	RR-8011-WP	WP EDB/DBCP/TCP	R40367	R40367-98
1	1	0	RR-PAH-WP	WP PAH-Low Level	R40433	R40433-37

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Packing List

Date	Order #
03/07/2025	335989

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

Alliance Tech Group - Newark
ATTN: Sohil Jodhani
284 Sheffield St., #1
Mountainside, NJ 07092
USA

Received by: SJ
3/11/2025 9:55

Customer PO #	Terms	PT Acct #	Customer #	Ship Via	F.O.B.
Email: Sohil Jodhani	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	RR-TRIAZINE-WP	WP Triazine Pesticides	R40480	R40480-108

284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

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

QA Control Code: A2070148