

Cover Page

Order ID : Q2344

Project ID : Ansonia Landfill 2025

Client : Lockwood, Kessler & Bartlett, Inc.

Lab Sample Number

Q2344-01
Q2344-02
Q2344-03
Q2344-04
Q2344-05
Q2344-06
Q2344-07
Q2344-08
Q2344-09

Client Sample Number

MW-1
MW-1
MW-3
MW-3
MW-4
MW-4
MW-2
MW-2
TRIP-BLANK

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

Signature : _____

Date: 6/26/2025

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012



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

CASE NARRATIVE

Lockwood, Kessler & Bartlett, Inc.

Project Name: Ansonia Landfill 2025

Project # N/A

Order ID # Q2344

Test Name: Alkalinity,Ammonia,Anions Group1,BOD5,pH,TDS,TKN,Total Nitrogen,TSS,Turbidity

A. Number of Samples and Date of Receipt:

9 Water samples were received on 06/17/2025.

B. Parameters:

According to the Chain of Custody document, the following analyses were requested: Alkalinity, Ammonia, Anions Group1, BOD5, Dissolved Metals Group5, Metals Group4, pH, TDS, TKN, Total Nitrogen, TSS, Turbidity and VOCMS Group1. This data package contains results for Alkalinity,Ammonia,Anions Group1,BOD5,pH,TDS,TKN,Total Nitrogen,TSS,Turbidity.

C. Analytical Techniques:

The analysis of Anions Group1 was based on method 300.0, The analysis of Total Nitrogen was based on method Cal, The analysis of pH was based on method SM 4500-H B, The analysis of Turbidity was based on method SM2130 B, The analysis of Alkalinity was based on method SM2320 B, The analysis of TDS was based on method SM2540 C, The analysis of TSS was based on method SM2540 D, The analysis of TKN was based on method SM4500 N Org B or C, The analysis of Ammonia was based on method SM4500-NH3 and The analysis of BOD5 was based on method SM5210 B.

D. QA/ QC Samples:

The Holding Times were met for all analysis except for MW-1 of pH., for MW-2 of pH. For MW-3 of pH. For MW-4 of pH as samples were receive out of holding time. Sample MW-1 was diluted due to high concentrations for Chloride & Sample MW-3 was diluted due to high concentrations for Chloride, Sulfate & Sample MW-3DL was diluted due to high concentrations for Chloride & Sample MW-4 was diluted due to high concentrations for Chloride, Sulfate & Sample MW-4DL was diluted due to high concentrations for Chloride & Sample MW-2 was diluted due to high concentrations for Ammonia as N, Chloride.

The Blank Spike met requirements for all parameters.

The Duplicate analysis met criteria for all parameters.

The Matrix Spike (MW-1MS) analysis met criteria for all parameters except for Chloride due to sample matrix interference.



The Matrix Spike Duplicate (MW-1MSD) analysis met criteria for all parameters except for Chloride due to sample matrix interference.

The Blank analysis did not indicate the presence of lab contamination.

The Calibration met the requirements.

E. Additional Comments:

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

Signature_____

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

APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: Q2344

Completed

For thorough review, the report must have the following:

GENERAL:

Are all original paperwork present (chain of custody, record of communication,airbill, sample management lab chronicle, login page)

✓

Check chain-of-custody for proper relinquish/return of samples

✓

Is the chain of custody signed and complete

✓

Check internal chain-of-custody for proper relinquish/return of samples /sample extracts

✓

Collect information for each project id from server. Were all requirements followed

✓

COVER PAGE:

Do numbers of samples correspond to the number of samples in the Chain of Custody on login page

✓

Do lab numbers and client Ids on cover page agree with the Chain of Custody

✓

CHAIN OF CUSTODY:

Do requested analyses on Chain of Custody agree with form I results

✓

Do requested analyses on Chain of Custody agree with the log-in page

✓

Were the correct method log-in for analysis according to the Analytical Request and Chain of Castody

✓

Were the samples received within hold time

✓

Were any problems found with the samples at arrival recorded in the Sample Management Laboratory Chronicle

✓

ANALYTICAL:

Was method requirement followed?

✓

Was client requirement followed?

✓

Does the case narrative summarize all QC failure?

✓

All runlogs and manual integration are reviewed for requirements

✓

All manual calculations and /or hand notations verified

✓

QA Review Signature: KETAN PATEL

Date: 06/26/2025

LAB CHRONICLE

OrderID:	Q2344	OrderDate:	6/17/2025 11:52:00 AM
Client:	Lockwood, Kessler & Bartlett, Inc.	Project:	Ansonia Landfill 2025
Contact:	John Gerlach	Location:	D31,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q2344-01	MW-1	WATER			06/16/25 09:30			06/17/25
			Alkalinity	SM2320 B			06/19/25 12:43	
			Ammonia	SM4500-NH3		06/23/25	06/24/25 09:50	
			Anions Group1	300.0			06/17/25 16:42	
			BOD5	SM5210 B			06/18/25 09:25	
			pH	SM 4500-H B			06/18/25 10:47	
			TDS	SM2540 C			06/17/25 17:20	
			TKN	SM4500-N Org C-11 plus NH3 B plus G-11		06/23/25	06/24/25 12:47	
			Total Nitrogen	Cal			06/24/25 12:47	
			TSS	SM2540 D			06/18/25 18:00	
			Turbidity	SM2130 B			06/18/25 09:16	
Q2344-01DL	MW-1DL	WATER			06/16/25 09:30			06/17/25
			Anions Group1	300.0			06/18/25 11:58	
Q2344-03	MW-3	WATER			06/16/25 10:30			06/17/25

LAB CHRONICLE

Alkalinity	SM2320 B		06/19/25 12:49
Ammonia	SM4500-NH3	06/23/25	06/24/25 09:50
Anions Group1	300.0		06/17/25 17:47
BOD5	SM5210 B		06/18/25 09:25
pH	SM 4500-H B		06/18/25 10:55
TDS	SM2540 C		06/17/25 17:20
TKN	SM4500-N Org C-11 plus NH3 B plus G-11	06/23/25	06/24/25 12:47
Total Nitrogen	Cal		06/24/25 12:47
TSS	SM2540 D		06/18/25 18:00
Turbidity	SM2130 B		06/18/25 09:23

Q2344-03DL	MW-3DL	WATER	06/16/25 10:30	06/17/25
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Anions Group1	300.0		06/18/25 12:20
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Q2344-03DL 2	MW-3DL2	WATER	06/16/25 10:30	06/17/25
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Anions Group1	300.0		06/18/25 12:41
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Q2344-05	MW-4	WATER	06/16/25 11:00	06/17/25
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Alkalinity	SM2320 B		06/19/25 12:55
Ammonia	SM4500-NH3	06/23/25	06/24/25 09:51
Anions Group1	300.0		06/17/25 18:08

LAB CHRONICLE

BOD5	SM5210 B	06/18/25 09:25
pH	SM 4500-H B	06/18/25 11:00
TDS	SM2540 C	06/17/25 17:20
TKN	SM4500-N Org C-11 plus NH3 B plus G-11	06/23/25 06/24/25 12:47
Total Nitrogen	Cal	06/24/25 12:47
TSS	SM2540 D	06/18/25 18:00
Turbidity	SM2130 B	06/18/25 09:26

Q2344-05DL	MW-4DL	WATER	06/16/25 11:00	06/17/25
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Anions Group1	300.0	06/18/25 13:03
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Q2344-05DL 2	MW-4DL2	WATER	06/16/25 11:00	06/17/25
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Anions Group1	300.0	06/18/25 13:24
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Q2344-07	MW-2	WATER	06/16/25 12:00	06/17/25
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Alkalinity	SM2320 B	06/19/25 13:02
Ammonia	SM4500-NH3	06/23/25 06/24/25 10:01
Anions Group1	300.0	06/17/25 18:30
BOD5	SM5210 B	06/18/25 09:25
pH	SM 4500-H B	06/18/25 11:10
TDS	SM2540 C	06/17/25 17:20

LAB CHRONICLE

Q2344-07DL	MW-2DL	WATER	TKN	SM4500-N Org C-11 plus NH3 B plus G-11	06/23/25	06/24/25 12:57	06/16/25 12:00	06/17/25
			Total Nitrogen	Cal		06/24/25 12:57		
			TSS	SM2540 D		06/18/25 18:00		
			Turbidity	SM2130 B		06/18/25 09:30		
			Ammonia	SM4500-NH3	06/23/25	06/24/25 10:45		
			Anions Group1	300.0		06/18/25 13:46		



SAMPLE DATA

Report of Analysis

Client:	Lockwood, Kessler & Bartlett, Inc.	Date Collected:	06/16/25 09:30
Project:	Ansonia Landfill 2025	Date Received:	06/17/25
Client Sample ID:	MW-1	SDG No.:	Q2344
Lab Sample ID:	Q2344-01	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Alkalinity	63.6		1	1.00	2.00	mg/L		06/19/25 12:43	SM 2320 B-21
Ammonia as N	0.030	U	1	0.030	0.10	mg/L	06/23/25 08:50	06/24/25 09:50	SM 4500-NH3 B plus G-21
Chloride	112	OR	1	0.19	0.60	mg/L		06/17/25 16:42	300.0
Nitrite	0.074	U	1	0.074	0.60	mg/L		06/17/25 16:42	300.0
Nitrate	1.80		1	0.095	0.50	mg/L		06/17/25 16:42	300.0
Sulfate	31.7		1	0.46	3.00	mg/L		06/17/25 16:42	300.0
Nitrate+Nitrite	1.80		1	0.17	1.10	mg/L		06/17/25 16:42	300.0
BOD5	5.70		1	0.20	2.00	mg/L		06/18/25 09:25	SM 5210 B-16
pH	6.16	H	1	0	0	pH		06/18/25 10:47	SM 4500-H B-21
TDS	136		1	1.00	10.0	mg/L		06/17/25 17:20	SM 2540 C-20
TKN	0.36	J	1	0.11	0.50	mg/L	06/23/25 09:40	06/24/25 12:47	SM4500-N Org C-21 plus NH3 B plus G-21
Nitrogen	2.16		1	0.31	1.30	mg/L		06/24/25 12:47	SM 4500-N Org C-11 plus NH3 B plus G-11
TSS	1.00	U	1	1.00	4.00	mg/L		06/18/25 18:00	SM 2540 D-20
Turbidity	1.15		1	0.15	1.00	NTU		06/18/25 09:16	SM 2130 B-20

Comments: The alkalinity to pH 4.31=63.6 mg CaCO3/L, pH result reported at temperature 20.4 °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

Report of Analysis

Client:	Lockwood, Kessler & Bartlett, Inc.	Date Collected:	06/16/25 09:30
Project:	Ansonia Landfill 2025	Date Received:	06/17/25
Client Sample ID:	MW-1DL	SDG No.:	Q2344
Lab Sample ID:	Q2344-01DL	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Chloride	84.8	D	20	3.80	12.0	mg/L		06/18/25 11:58	300.0

Comments: _____

U = Not Detected

LOQ = Limit of Quantitation

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LOD = Limit of Detection

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J = Estimated Value

B = Analyte Found in Associated Method Blank

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Report of Analysis

Client:	Lockwood, Kessler & Bartlett, Inc.	Date Collected:	06/16/25 10:30
Project:	Ansonia Landfill 2025	Date Received:	06/17/25
Client Sample ID:	MW-3	SDG No.:	Q2344
Lab Sample ID:	Q2344-03	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Alkalinity	307		1	1.00	2.00	mg/L		06/19/25 12:49	SM 2320 B-21
Ammonia as N	0.53		1	0.030	0.10	mg/L	06/23/25 08:50	06/24/25 09:50	SM 4500-NH3 B plus G-21
Chloride	246	OR	1	0.19	0.60	mg/L		06/17/25 17:47	300.0
Nitrite	0.074	U	1	0.074	0.60	mg/L		06/17/25 17:47	300.0
Nitrate	3.80		1	0.095	0.50	mg/L		06/17/25 17:47	300.0
Sulfate	77.8	OR	1	0.46	3.00	mg/L		06/17/25 17:47	300.0
Nitrate+Nitrite	3.80		1	0.17	1.10	mg/L		06/17/25 17:47	300.0
BOD5	14.7		1	0.20	2.00	mg/L		06/18/25 09:25	SM 5210 B-16
pH	6.86	H	1	0	0	pH		06/18/25 10:55	SM 4500-H B-21
TDS	629		1	1.00	10.0	mg/L		06/17/25 17:20	SM 2540 C-20
TKN	0.94		1	0.11	0.50	mg/L	06/23/25 09:40	06/24/25 12:47	SM4500-N Org C-21 plus NH3 B plus G-21
Nitrogen	4.74		1	0.31	1.30	mg/L		06/24/25 12:47	SM 4500-N Org C-11 plus NH3 B plus G-11
TSS	1.00	U	1	1.00	4.00	mg/L		06/18/25 18:00	SM 2540 D-20
Turbidity	1.32		1	0.15	1.00	NTU		06/18/25 09:23	SM 2130 B-20

Comments: The alkalinity to pH 4.40=307 mg CaCO3/L, pH result reported at temperature 20.3 °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

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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

Report of Analysis

Client:	Lockwood, Kessler & Bartlett, Inc.	Date Collected:	06/16/25 10:30
Project:	Ansonia Landfill 2025	Date Received:	06/17/25
Client Sample ID:	MW-3DL	SDG No.:	Q2344
Lab Sample ID:	Q2344-03DL	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Chloride	200	OR	5	0.95	3.00	mg/L		06/18/25 12:20	300.0
Sulfate	71.6	D	5	2.30	15.0	mg/L		06/18/25 12:20	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

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

Report of Analysis

Client:	Lockwood, Kessler & Bartlett, Inc.	Date Collected:	06/16/25 10:30
Project:	Ansonia Landfill 2025	Date Received:	06/17/25
Client Sample ID:	MW-3DL2	SDG No.:	Q2344
Lab Sample ID:	Q2344-03DL2	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Chloride	174	D	50	9.50	30.0	mg/L		06/18/25 12:41	300.0

Comments: _____

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

D = Dilution

Q = indicates LCS control criteria did not meet requirements

H = Sample Analysis Out Of Hold Time

J = Estimated Value

B = Analyte Found in Associated Method Blank

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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

Report of Analysis

Client:	Lockwood, Kessler & Bartlett, Inc.	Date Collected:	06/16/25 11:00
Project:	Ansonia Landfill 2025	Date Received:	06/17/25
Client Sample ID:	MW-4	SDG No.:	Q2344
Lab Sample ID:	Q2344-05	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Alkalinity	306		1	1.00	2.00	mg/L		06/19/25 12:55	SM 2320 B-21
Ammonia as N	0.55		1	0.030	0.10	mg/L	06/23/25 08:50	06/24/25 09:51	SM 4500-NH3 B plus G-21
Chloride	246	OR	1	0.19	0.60	mg/L		06/17/25 18:08	300.0
Nitrite	0.074	U	1	0.074	0.60	mg/L		06/17/25 18:08	300.0
Nitrate	3.80		1	0.095	0.50	mg/L		06/17/25 18:08	300.0
Sulfate	77.5	OR	1	0.46	3.00	mg/L		06/17/25 18:08	300.0
Nitrate+Nitrite	3.80		1	0.17	1.10	mg/L		06/17/25 18:08	300.0
BOD5	11.2		1	0.20	2.00	mg/L		06/18/25 09:25	SM 5210 B-16
pH	6.80	H	1	0	0	pH		06/18/25 11:00	SM 4500-H B-21
TDS	565		1	1.00	10.0	mg/L		06/17/25 17:20	SM 2540 C-20
TKN	0.98		1	0.11	0.50	mg/L	06/23/25 09:40	06/24/25 12:47	SM4500-N Org C-21 plus NH3 B plus G-21
Nitrogen	4.78		1	0.31	1.30	mg/L		06/24/25 12:47	SM 4500-N Org C-11 plus NH3 B plus G-11
TSS	1.00	U	1	1.00	4.00	mg/L		06/18/25 18:00	SM 2540 D-20
Turbidity	1.32		1	0.15	1.00	NTU		06/18/25 09:26	SM 2130 B-20

Comments: The alkalinity to pH 4.37=306 mg CaCO3/L, pH result reported at temperature 20.4 °C

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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OR = Over Range

N =Spiked sample recovery not within control limits

Report of Analysis

Client:	Lockwood, Kessler & Bartlett, Inc.	Date Collected:	06/16/25 11:00
Project:	Ansonia Landfill 2025	Date Received:	06/17/25
Client Sample ID:	MW-4DL	SDG No.:	Q2344
Lab Sample ID:	Q2344-05DL	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Chloride	200	OR	5	0.95	3.00	mg/L		06/18/25 13:03	300.0
Sulfate	71.5	D	5	2.30	15.0	mg/L		06/18/25 13:03	300.0

Comments: _____

U = Not Detected

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Report of Analysis

Client:	Lockwood, Kessler & Bartlett, Inc.	Date Collected:	06/16/25 11:00
Project:	Ansonia Landfill 2025	Date Received:	06/17/25
Client Sample ID:	MW-4DL2	SDG No.:	Q2344
Lab Sample ID:	Q2344-05DL2	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Chloride	173	D	50	9.50	30.0	mg/L		06/18/25 13:24	300.0

Comments: _____

U = Not Detected

LOQ = Limit of Quantitation

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Report of Analysis

Client:	Lockwood, Kessler & Bartlett, Inc.	Date Collected:	06/16/25 12:00
Project:	Ansonia Landfill 2025	Date Received:	06/17/25
Client Sample ID:	MW-2	SDG No.:	Q2344
Lab Sample ID:	Q2344-07	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Alkalinity	454		1	1.00	2.00	mg/L		06/19/25 13:02	SM 2320 B-21
Ammonia as N	7.20	OR	1	0.030	0.10	mg/L	06/23/25 08:50	06/24/25 10:01	SM 4500-NH3 B plus G-21
Chloride	387	OR	1	0.19	0.60	mg/L		06/17/25 18:30	300.0
Nitrite	0.074	U	1	0.074	0.60	mg/L		06/17/25 18:30	300.0
Nitrate	0.79		1	0.095	0.50	mg/L		06/17/25 18:30	300.0
Sulfate	29.2		1	0.46	3.00	mg/L		06/17/25 18:30	300.0
Nitrate+Nitrite	0.79	J	1	0.17	1.10	mg/L		06/17/25 18:30	300.0
BOD5	8.43		1	0.20	2.00	mg/L		06/18/25 09:25	SM 5210 B-16
pH	6.83	H	1	0	0	pH		06/18/25 11:10	SM 4500-H B-21
TDS	798		1	1.00	10.0	mg/L		06/17/25 17:20	SM 2540 C-20
TKN	7.70		1	0.11	0.50	mg/L	06/23/25 09:40	06/24/25 12:57	SM4500-N Org C-21 plus NH3 B plus G-21
Nitrogen	8.49		1	0.31	1.30	mg/L		06/24/25 12:57	SM 4500-N Org C-11 plus NH3 B plus G-11
TSS	11.6		1	1.00	4.00	mg/L		06/18/25 18:00	SM 2540 D-20
Turbidity	52.0		1	0.15	1.00	NTU		06/18/25 09:30	SM 2130 B-20

Comments: The alkalinity to pH 4.32=454 mg CaCO3/L, pH result reported at temperature 20.3 °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

Report of Analysis

Client:	Lockwood, Kessler & Bartlett, Inc.	Date Collected:	06/16/25 12:00
Project:	Ansonia Landfill 2025	Date Received:	06/17/25
Client Sample ID:	MW-2DL	SDG No.:	Q2344
Lab Sample ID:	Q2344-07DL	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Ammonia as N	7.00	D	5	0.15	0.50	mg/L	06/23/25 08:50	06/24/25 10:45	SM 4500-NH3 B plus G-21
Chloride	249	D	100	19.0	60.0	mg/L		06/18/25 13:46	300.0

Comments: _____

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

D = Dilution

Q = indicates LCS control criteria did not meet requirements

H = Sample Analysis Out Of Hold Time

J = Estimated Value

B = Analyte Found in Associated Method Blank

* = indicates the duplicate analysis is not within control limits.

E = Indicates the reported value is estimated because of the presence of interference.

OR = Over Range

N =Spiked sample recovery not within control limits



QC RESULT SUMMARY

Initial and Continuing Calibration Verification

Client: Lockwood, Kessler & Bartlett, Inc.

SDG No.: Q2344

Project: Ansonia Landfill 2025

RunNo.: LB136185

Analyte	Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID: ICV pH	pH	6.98	7	100	90-110	06/18/2025
Sample ID: CCV1 pH	pH	2.01	2.00	101	90-110	06/18/2025
Sample ID: CCV2 pH	pH	12.02	12.00	100	90-110	06/18/2025

Initial and Continuing Calibration Verification

Client: Lockwood, Kessler & Bartlett, Inc.

SDG No.: Q2344

Project: Ansonia Landfill 2025

RunNo.: LB136188

Analyte		Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID: Turbidity	ICV	NTU	9.068	10	91	90-110	06/18/2025
Sample ID: Turbidity	CCV1	NTU	10.100	10	101	90-110	06/18/2025
Sample ID: Turbidity	CCV2	NTU	9.232	10	92	90-110	06/18/2025

Initial and Continuing Calibration Verification

Client: Lockwood, Kessler & Bartlett, Inc.

SDG No.: Q2344

Project: Ansonia Landfill 2025

RunNo.: LB136191

Analyte	Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID: ICV1						
Bromide	mg/L	10.2	10	102	90-110	05/22/2025
Chloride	mg/L	3.1	3	103	90-110	05/22/2025
Fluoride	mg/L	2.1	2	105	90-110	05/22/2025
Nitrite	mg/L	3.1	3	103	90-110	05/22/2025
Nitrate	mg/L	2.6	2.5	104	90-110	05/22/2025
Sulfate	mg/L	15.1	15	101	90-110	05/22/2025
Orthophosphate as P	mg/L	5.3	5	106	90-110	05/22/2025
Sample ID: CCV1						
Bromide	mg/L	10.3	10	103	90-110	06/17/2025
Chloride	mg/L	3.1	3	103	90-110	06/17/2025
Fluoride	mg/L	2.1	2	105	90-110	06/17/2025
Nitrite	mg/L	3.1	3	103	90-110	06/17/2025
Nitrate	mg/L	2.6	2.5	104	90-110	06/17/2025
Sulfate	mg/L	15.3	15	102	90-110	06/17/2025
Orthophosphate as P	mg/L	5.3	5	106	90-110	06/17/2025
Sample ID: CCV2						
Bromide	mg/L	10.3	10	103	90-110	06/17/2025
Chloride	mg/L	3.1	3	103	90-110	06/17/2025
Fluoride	mg/L	2.1	2	105	90-110	06/17/2025
Nitrite	mg/L	3.1	3	103	90-110	06/17/2025
Nitrate	mg/L	2.6	2.5	104	90-110	06/17/2025
Sulfate	mg/L	15.2	15	101	90-110	06/17/2025
Orthophosphate as P	mg/L	5.3	5	106	90-110	06/17/2025
Sample ID: CCV3						
Bromide	mg/L	10.3	10	103	90-110	06/18/2025
Chloride	mg/L	3.1	3	103	90-110	06/18/2025
Fluoride	mg/L	2.1	2	105	90-110	06/18/2025
Nitrite	mg/L	3.1	3	103	90-110	06/18/2025
Nitrate	mg/L	2.6	2.5	104	90-110	06/18/2025
Sulfate	mg/L	15.3	15	102	90-110	06/18/2025
Orthophosphate as P	mg/L	5.1	5	102	90-110	06/18/2025
Sample ID: CCV4						
Bromide	mg/L	10.3	10	103	90-110	06/18/2025
Chloride	mg/L	3.1	3	103	90-110	06/18/2025
Fluoride	mg/L	2.1	2	105	90-110	06/18/2025
Nitrite	mg/L	3.1	3	103	90-110	06/18/2025
Nitrate	mg/L	2.6	2.5	104	90-110	06/18/2025
Sulfate	mg/L	15.3	15	102	90-110	06/18/2025
Orthophosphate as P	mg/L	5.3	5	106	90-110	06/18/2025

Initial and Continuing Calibration Verification

Client: Lockwood, Kessler & Bartlett, Inc.

SDG No.: Q2344

Project: Ansonia Landfill 2025

RunNo.: LB136242

Analyte	Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID: ICV1 Ammonia as N	mg/L	0.97	1	97	90-110	06/24/2025
Sample ID: CCV1 Ammonia as N	mg/L	0.97	1	97	90-110	06/24/2025
Sample ID: CCV2 Ammonia as N	mg/L	1	1	100	90-110	06/24/2025
Sample ID: CCV3 Ammonia as N	mg/L	0.91	1	91	90-110	06/24/2025
Sample ID: CCV4 Ammonia as N	mg/L	0.99	1	99	90-110	06/24/2025

Initial and Continuing Calibration Verification

Client: Lockwood, Kessler & Bartlett, Inc.

SDG No.: Q2344

Project: Ansonia Landfill 2025

RunNo.: LB136244

Analyte	Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID: ICV1 TKN	mg/L	4.9	5	98	90-110	06/24/2025
Sample ID: CCV1 TKN	mg/L	4.7	5	94	90-110	06/24/2025
Sample ID: CCV2 TKN	mg/L	4.8	5	96	90-110	06/24/2025
Sample ID: CCV3 TKN	mg/L	4.9	5	98	90-110	06/24/2025



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Initial and Continuing Calibration Blank Summary

Client: Lockwood, Kessler & Bartlett, Inc.

SDG No.: Q2344

Project: Ansonia Landfill 2025

RunNo.: LB136188

Analyte		Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID: Turbidity	ICB	NTU	0.447	0.5000	J	0.15	1.0	06/18/2025
Sample ID: Turbidity	CCB1	NTU	0.449	0.5000	J	0.15	1	06/18/2025
Sample ID: Turbidity	CCB2	NTU	0.455	0.5000	J	0.15	1	06/18/2025

Initial and Continuing Calibration Blank Summary

Client: Lockwood, Kessler & Bartlett, Inc.

SDG No.: Q2344

Project: Ansonia Landfill 2025

RunNo.: LB136191

Analyte	Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID: ICB1							
Bromide	mg/L	< 1.0000	1.0000	U	0.37	2	05/22/2025
Chloride	mg/L	< 0.3000	0.3000	U	0.19	0.6	05/22/2025
Fluoride	mg/L	< 0.2000	0.2000	U	0.11	0.4	05/22/2025
Nitrite	mg/L	< 0.3000	0.3000	U	0.074	0.6	05/22/2025
Nitrate	mg/L	< 0.2500	0.2500	U	0.095	0.5	05/22/2025
Sulfate	mg/L	< 1.5000	1.5000	U	0.46	3	05/22/2025
Orthophosphate as P	mg/L	< 0.5000	0.5000	U	0.34	1	05/22/2025
Sample ID: CCB1							
Bromide	mg/L	< 1.0000	1.0000	U	0.37	2	06/17/2025
Chloride	mg/L	< 0.3000	0.3000	U	0.19	0.6	06/17/2025
Fluoride	mg/L	< 0.2000	0.2000	U	0.11	0.4	06/17/2025
Nitrite	mg/L	< 0.3000	0.3000	U	0.074	0.6	06/17/2025
Nitrate	mg/L	< 0.2500	0.2500	U	0.095	0.5	06/17/2025
Sulfate	mg/L	< 1.5000	1.5000	U	0.46	3	06/17/2025
Orthophosphate as P	mg/L	< 0.5000	0.5000	U	0.34	1	06/17/2025
Sample ID: CCB2							
Bromide	mg/L	< 1.0000	1.0000	U	0.37	2	06/17/2025
Chloride	mg/L	< 0.3000	0.3000	U	0.19	0.6	06/17/2025
Fluoride	mg/L	< 0.2000	0.2000	U	0.11	0.4	06/17/2025
Nitrite	mg/L	< 0.3000	0.3000	U	0.074	0.6	06/17/2025
Nitrate	mg/L	< 0.2500	0.2500	U	0.095	0.5	06/17/2025
Sulfate	mg/L	< 1.5000	1.5000	U	0.46	3	06/17/2025
Orthophosphate as P	mg/L	< 0.5000	0.5000	U	0.34	1	06/17/2025
Sample ID: CCB3							
Bromide	mg/L	< 1.0000	1.0000	U	0.37	2	06/18/2025
Chloride	mg/L	< 0.3000	0.3000	U	0.19	0.6	06/18/2025
Fluoride	mg/L	< 0.2000	0.2000	U	0.11	0.4	06/18/2025
Nitrite	mg/L	< 0.3000	0.3000	U	0.074	0.6	06/18/2025
Nitrate	mg/L	< 0.2500	0.2500	U	0.095	0.5	06/18/2025
Sulfate	mg/L	< 1.5000	1.5000	U	0.46	3	06/18/2025
Orthophosphate as P	mg/L	< 0.5000	0.5000	U	0.34	1	06/18/2025
Sample ID: CCB4							
Bromide	mg/L	< 1.0000	1.0000	U	0.37	2	06/18/2025
Chloride	mg/L	< 0.3000	0.3000	U	0.19	0.6	06/18/2025
Fluoride	mg/L	< 0.2000	0.2000	U	0.11	0.4	06/18/2025
Nitrite	mg/L	< 0.3000	0.3000	U	0.074	0.6	06/18/2025
Nitrate	mg/L	< 0.2500	0.2500	U	0.095	0.5	06/18/2025
Sulfate	mg/L	< 1.5000	1.5000	U	0.46	3	06/18/2025
Orthophosphate as P	mg/L	< 0.5000	0.5000	U	0.34	1	06/18/2025

Initial and Continuing Calibration Blank Summary

Client: Lockwood, Kessler & Bartlett, Inc.

SDG No.: Q2344

Project: Ansonia Landfill 2025

RunNo.: LB136242

Analyte	Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID: ICB1 Ammonia as N	mg/L	< 0.0500	0.0500	U	0.030	0.1	06/24/2025
Sample ID: CCB1 Ammonia as N	mg/L	< 0.0500	0.0500	U	0.030	0.1	06/24/2025
Sample ID: CCB2 Ammonia as N	mg/L	< 0.0500	0.0500	U	0.030	0.1	06/24/2025
Sample ID: CCB3 Ammonia as N	mg/L	< 0.0500	0.0500	U	0.030	0.1	06/24/2025
Sample ID: CCB4 Ammonia as N	mg/L	< 0.0500	0.0500	U	0.030	0.1	06/24/2025

Initial and Continuing Calibration Blank Summary

Client: Lockwood, Kessler & Bartlett, Inc.

SDG No.: Q2344

Project: Ansonia Landfill 2025

RunNo.: LB136244

Analyte	Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID: ICB1 TKN	mg/L	< 0.2500	0.2500	U	0.11	0.5	06/24/2025
Sample ID: CCB1 TKN	mg/L	< 0.2500	0.2500	U	0.11	0.5	06/24/2025
Sample ID: CCB2 TKN	mg/L	< 0.2500	0.2500	U	0.11	0.5	06/24/2025
Sample ID: CCB3 TKN	mg/L	< 0.2500	0.2500	U	0.11	0.5	06/24/2025

Preparation Blank Summary

Client: Lockwood, Kessler & Bartlett, Inc.

SDG No.: Q2344

Project: Ansonia Landfill 2025

Analyte	Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID: LB136184BL							
BOD5	mg/L	< 0.2000	0.2000	U	0.20	2.0	06/18/2025
Sample ID: LB136186BL							
TDS	mg/L	< 5.0000	5.0000	U	1.0	10	06/17/2025
Sample ID: LB136188BL							
Turbidity	NTU	0.446	0.5000	J	0.15	1.0	06/18/2025
Sample ID: LB136191BLW							
Bromide	mg/L	< 1.0000	1.0000	U	0.37	2	06/17/2025
Chloride	mg/L	< 0.3000	0.3000	U	0.19	0.6	06/17/2025
Fluoride	mg/L	< 0.2000	0.2000	U	0.11	0.4	06/17/2025
Nitrite	mg/L	< 0.3000	0.3000	U	0.074	0.6	06/17/2025
Nitrate	mg/L	< 0.2500	0.2500	U	0.095	0.5	06/17/2025
Sulfate	mg/L	< 1.5000	1.5000	U	0.46	3	06/17/2025
Orthophosphate as P	mg/L	< 0.5000	0.5000	U	0.34	1	06/17/2025
Sample ID: LB136191BLW2							
Bromide	mg/L	< 1.0000	1.0000	U	0.37	2	06/18/2025
Chloride	mg/L	< 0.3000	0.3000	U	0.19	0.6	06/18/2025
Fluoride	mg/L	< 0.2000	0.2000	U	0.11	0.4	06/18/2025
Nitrite	mg/L	< 0.3000	0.3000	U	0.074	0.6	06/18/2025
Nitrate	mg/L	< 0.2500	0.2500	U	0.095	0.5	06/18/2025
Sulfate	mg/L	< 1.5000	1.5000	U	0.46	3	06/18/2025
Orthophosphate as P	mg/L	< 0.5000	0.5000	U	0.34	1	06/18/2025
Sample ID: LB136202BL							
TSS	mg/L	1	2.0000	J	1	4	06/18/2025
Sample ID: LB136205BLW							
Alkalinity	mg/L	< 1.0000	1.0000	U	1	2	06/19/2025
Sample ID: PB168578BL							
Ammonia as N	mg/L	< 0.0500	0.0500	U	0.03	0.1	06/24/2025
Sample ID: PB168588BL							
TKN	mg/L	< 0.2500	0.2500	U	0.11	0.5	06/24/2025

Matrix Spike Summary

Client:	Lockwood, Kessler & Bartlett, Inc.	SDG No.:	Q2344
Project:	Ansonia Landfill 2025	Sample ID:	Q2344-01
Client ID:	MW-1MS	Percent Solids for Spike Sample:	0

Analyte	Units	Acceptance Limit %R	Spiked Result	Conc. Qualifier	Sample Result	Conc. Qualifier	Spike Added	Dilution Factor	% Rec	Qual	Analysis Date
Bromide	mg/L	80-120	10.3		0.37	U	10	1	103		06/17/2025
Chloride	mg/L	80-120	111	OR	112	OR	3	1	-33	*	06/17/2025
Fluoride	mg/L	80-120	2.20		0.12	J	2	1	104		06/17/2025
TKN	mg/L	75-125	5.00		0.36	J	5	1	93		06/24/2025
Nitrite	mg/L	80-120	3.10		0.074	U	3	1	103		06/17/2025
Nitrate	mg/L	80-120	4.30		1.80		2.5	1	100		06/17/2025
Sulfate	mg/L	80-120	46.4	OR	31.7		15	1	98		06/17/2025
Orthophosphate as P	mg/L	80-120	5.00		0.34	U	5	1	100		06/17/2025

Matrix Spike Summary

Client:	Lockwood, Kessler & Bartlett, Inc.	SDG No.:	Q2344
Project:	Ansonia Landfill 2025	Sample ID:	Q2344-01
Client ID:	MW-1MSD	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	10.1		0.37	U	10	1	101		06/17/2025
Chloride	mg/L	80-120	110	OR	112	OR	3	1	-67	*	06/17/2025
TKN	mg/L	75-125	4.80		0.36	J	5	1	89		06/24/2025
Fluoride	mg/L	80-120	2.20		0.12	J	2	1	104		06/17/2025
Nitrite	mg/L	80-120	3.00		0.074	U	3	1	100		06/17/2025
Nitrate	mg/L	80-120	4.30		1.80		2.5	1	100		06/17/2025
Sulfate	mg/L	80-120	46.1	OR	31.7		15	1	96		06/17/2025
Orthophosphate as P	mg/L	80-120	5.20		0.34	U	5	1	104		06/17/2025

Matrix Spike Summary

Client:	Lockwood, Kessler & Bartlett, Inc.	SDG No.:	Q2344
Project:	Ansonia Landfill 2025	Sample ID:	Q2385-01
Client ID:	A5311MS	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	0.95		0.030	U	1	1	95		06/24/2025

Matrix Spike Summary

Client:	Lockwood, Kessler & Bartlett, Inc.	SDG No.:	Q2344
Project:	Ansonia Landfill 2025	Sample ID:	Q2385-01
Client ID:	A5311MSD	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	0.96		0.030	U	1	1	96		06/24/2025

Duplicate Sample Summary

Client: Lockwood, Kessler & Bartlett, Inc.	SDG No.: Q2344
Project: Ansonia Landfill 2025	Sample ID: Q2316-02
Client ID: RW8-SP303-20250612DUP	Percent Solids for Spike Sample: 0

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/ AD	Qual	Analysis Date
TDS	mg/L	+/-5	1.00	J	1.00	J	1	0		06/17/2025

Duplicate Sample Summary

Client: Lockwood, Kessler & Bartlett, Inc.	SDG No.: Q2344
Project: Ansonia Landfill 2025	Sample ID: Q2334-01
Client ID: MW3DUP	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	122		121		1	1		06/19/2025

Duplicate Sample Summary

Client: Lockwood, Kessler & Bartlett, Inc.	SDG No.: Q2344
Project: Ansonia Landfill 2025	Sample ID: Q2344-01
Client ID: MW-1DUP	Percent Solids for Spike Sample: 0

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/AD	Qual	Analysis Date
BOD5	mg/L	+/-20	5.70		5.88		1	3.11		06/18/2025
Turbidity	NTU	+/-20	1.15		1.15		1	0		06/18/2025
TKN	mg/L	+/-20	0.36	J	0.36	J	1	0		06/24/2025

Duplicate Sample Summary

Client:	Lockwood, Kessler & Bartlett, Inc.	SDG No.:	Q2344
Project:	Ansonia Landfill 2025	Sample ID:	Q2344-01
Client ID:	MW-1MSD	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
Fluoride	mg/L	+/-20	2.20		2.20		1	0		06/17/2025
Nitrate	mg/L	+/-20	4.30		4.30		1	0		06/17/2025
Chloride	mg/L	+/-20	111	OR	110	OR	1	1		06/17/2025
Sulfate	mg/L	+/-20	46.4	OR	46.1	OR	1	1		06/17/2025
Bromide	mg/L	+/-20	10.3		10.1		1	2		06/17/2025
Nitrite	mg/L	+/-20	3.10		3.00		1	3		06/17/2025
Orthophosphate as P	mg/L	+/-20	5.00		5.20		1	4		06/17/2025
TKN	mg/L	+/-20	5.00		4.80		1	4		06/24/2025

Duplicate Sample Summary

Client: Lockwood, Kessler & Bartlett, Inc. Project: Ansonia Landfill 2025 Client ID: MW-2DUP	SDG No.: Q2344 Sample ID: Q2344-07 Percent Solids for Spike Sample: 0
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Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/ AD	Qual	Analysis Date
pH	pH	+/-20	6.83		6.84		1	0.15		06/18/2025
TSS	mg/L	+/-5	11.6		12.1		1	4.22		06/18/2025

Duplicate Sample Summary

Client: Lockwood, Kessler & Bartlett, Inc.	SDG No.: Q2344
Project: Ansonia Landfill 2025	Sample ID: Q2385-01
Client ID: A5311DUP	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	0.030	U	0.030	U	1	0		06/24/2025

Duplicate Sample Summary

Client: Lockwood, Kessler & Bartlett, Inc.	SDG No.: Q2344
Project: Ansonia Landfill 2025	Sample ID: Q2385-01
Client ID: A5311MSD	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	0.95		0.96		1	1		06/24/2025

Laboratory Control Sample Summary

Client: Lockwood, Kessler & Bartlett, Inc.

SDG No.: Q2344

Project: Ansonia Landfill 2025

Run No.: LB136184

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID	LB136184BS							
BOD5	mg/L	198	198		100	1	84.6-115.4	06/18/2025

Laboratory Control Sample Summary

Client: Lockwood, Kessler & Bartlett, Inc.

SDG No.: Q2344

Project: Ansonia Landfill 2025

Run No.: LB136186

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID	LB136186BS							
TDS	mg/L	100	95.0		95	1	90-110	06/17/2025

Laboratory Control Sample Summary

Client: Lockwood, Kessler & Bartlett, Inc.

SDG No.: Q2344

Project: Ansonia Landfill 2025

Run No.: LB136191

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID	LB136191BSW							
Bromide	mg/L	10	10.3		103	1	90-110	06/17/2025
Chloride	mg/L	3	3.10		103	1	90-110	06/17/2025
Fluoride	mg/L	2	2.10		105	1	90-110	06/17/2025
Nitrite	mg/L	3	3.10		103	1	90-110	06/17/2025
Nitrate	mg/L	2.5	2.60		104	1	90-110	06/17/2025
Sulfate	mg/L	15	15.3		102	1	90-110	06/17/2025
Orthophosphate as P	mg/L	5	5.40		108	1	90-110	06/17/2025

Laboratory Control Sample Summary

Client: Lockwood, Kessler & Bartlett, Inc.

SDG No.: Q2344

Project: Ansonia Landfill 2025

Run No.: LB136191

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID	LB136191BSW2							
Bromide	mg/L	10	10.3		103	1	90-110	06/18/2025
Chloride	mg/L	3	3.10		103	1	90-110	06/18/2025
Fluoride	mg/L	2	2.10		105	1	90-110	06/18/2025
Nitrite	mg/L	3	3.10		103	1	90-110	06/18/2025
Nitrate	mg/L	2.5	2.60		104	1	90-110	06/18/2025
Sulfate	mg/L	15	15.3		102	1	90-110	06/18/2025
Orthophosphate as P	mg/L	5	5.10		102	1	90-110	06/18/2025

Laboratory Control Sample Summary

Client: Lockwood, Kessler & Bartlett, Inc.

SDG No.: Q2344

Project: Ansonia Landfill 2025

Run No.: LB136202

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID	LB136202BS							
TSS	mg/L	550	533		97	1	90-110	06/18/2025

Laboratory Control Sample Summary

Client: Lockwood, Kessler & Bartlett, Inc.

SDG No.: Q2344

Project: Ansonia Landfill 2025

Run No.: LB136205

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID	LB136205BSW							
Alkalinity	mg/L	50	47.5		95	1	80-120	06/19/2025

Laboratory Control Sample Summary

Client: Lockwood, Kessler & Bartlett, Inc.

SDG No.: Q2344

Project: Ansonia Landfill 2025

Run No.: LB136242

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID	PB168578BS							
Ammonia as N	mg/L	1	0.95		95	1	90-110	06/24/2025

Laboratory Control Sample Summary

Client: Lockwood, Kessler & Bartlett, Inc.

SDG No.: Q2344

Project: Ansonia Landfill 2025

Run No.: LB136244

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID	PB168588BS							
TKN	mg/L	5	4.90		98	1	90-110	06/24/2025



RAW DATA

BOD5 LOG

ANALYST: rubin
 On:6/23/2025 2:06:26 PM

SUPERVISOR: Iwona

QC BATCH ID: LB136184

Analysis Date: 06/18/2025

BOD Water: WP113565

MANGANOUS SULFATE SOLUTION: W3103

Starch: W3149

Alkaline Iodide Azide: W3109

Sulfuric acid, 1N: WP112832

Sodium Thiosulfate, 0.025N: W3105

POLYSEED: WP113566

NaOH, 1N: WP111323

GGA: WP113567

IncubatorID: INCUBATOR #3

Chlorine Strips: W3155

GuageID: 0511064

pH Strips: W3215

Zero DO: WP113147

Lab SampleID	Client ID	Bottle No.	VOL. ML	Initial Reading (ML)	Final Reading (ML)	Difference	Average
WINKLER 1	WINKLER 1	1	300	0	9.8	9.8	9.8
WINKLER 2	WINKLER 2	2	300	9.9	19.7	9.8	9.8

Meter Calibration1: 9.86

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

Barometric Pressure1: 760 mmHg

DO Meter BOD fluid reading for winkler comparison: 9.92

After Incubation

Meter Calibration2: 8.36

Zero DO Reading2: 0.15 mg/L (<=0.2 Criteria)

Barometric Pressure2: 765 mmHg

QC BATCH ID: LB136184

INCUBATOR TEMP IN(C): 19.8

INCUBATOR TEMP OUT(C): 20.2

TIME IN: 09:25

TIME OUT: 09:45

DATE IN: 06/18/2025

DATE OUT: 06/23/2025

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
LB136184BL	1	No	6.61	N/A	20.90	300	9.92	9.90	0.02	0.02	0.02	
POLYSEED	1					10	9.72	7.29	2.43	0.49	0.59	
POLYSEED	2					15	9.69	5.10	4.59	0.61		
POLYSEED	3					20	9.68	3.01	6.67	0.67		
GGA	1					6	9.72	5.33	4.39	190	197.67	
GGA	2					6	9.69	5.10	4.59	200		
GGA	3					6	9.67	5.02	4.65	203		
Q2344-01	1	No	6.16	6.67	20.10	5	9.74	8.90	-	0	5.7	pH Adjusted
Q2344-01	2					20	9.68	8.68	-	0		
Q2344-01	3					50	9.66	8.02	-	0		
Q2344-01	4					150	9.64	6.20	3.44	5.7		
Q2344-01DUP	1	No	6.15	6.67	20.10	5	9.73	8.88	-	0	5.88	pH Adjusted
Q2344-01DUP	2					20	9.72	8.70	-	0		
Q2344-01DUP	3					50	9.68	8.22	-	0		
Q2344-01DUP	4					150	9.65	6.12	3.53	5.88		
Q2344-03	1	No	6.86	6.86	20.30	5	9.71	8.70	-	0	14.73	pH Adjusted
Q2344-03	2					20	9.70	8.49	-	0		
Q2344-03	3					50	9.67	6.49	3.18	15.54		
Q2344-03	4					150	9.64	2.09	7.55	13.92		
Q2344-05	1	No	6.81	6.81	20.40	5	9.68	8.80	-	0	11.22	pH Adjusted
Q2344-05	2					20	9.59	8.19	-	0		
Q2344-05	3					50	9.58	7.12	2.46	11.22		
Q2344-05	4					150	9.09	0.35	-	0		
Q2344-07	1	No	6.83	6.83	20.50	5	9.72	8.71	-	0	8.43	pH Adjusted
Q2344-07	2					20	9.69	7.92	-	0		
Q2344-07	3					50	9.57	7.57	2	8.46		
Q2344-07	4					150	9.07	4.28	4.79	8.4		

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

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

WORKLIST(Hardcopy Internal Chain)

LB 136184

WorkList Name : BOD-061725

WorkList ID : 190262

Department : Wet-Chemistry

Date : 06-18-2025 12:06:51

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q2344-01	MW-1	Water	BOD5	Cool 4 deg C	LOCK01	D31	06/16/2025	SM5210 B
Q2344-03	MW-3	Water	BOD5	Cool 4 deg C	LOCK01	D31	06/16/2025	SM5210 B
Q2344-05	MW-4	Water	BOD5	Cool 4 deg C	LOCK01	D31	06/16/2025	SM5210 B
Q2344-07	MW-2	Water	BOD5	Cool 4 deg C	LOCK01	D31	06/16/2025	SM5210 B

Date/Time 06/18/25 09:00
Raw Sample Received by: 12 (X)
Raw Sample Relinquished by: 12 (X)

Date/Time 06/18/25 11:11
Raw Sample Received by: 12 (X)
Raw Sample Relinquished by: 12 (X)

Analytical Summary Report

Analysis Method: SM 4500-H B

Analyst By : jignesh

Parameter: pH

Supervisor Review By : Iwona

Run Number: LB136185

Slope : 98.5

pH Meter ID : WC PH METER-1

Calibration Standards	Chemtech Log#
PH 4 BUFFER SOLUTION	W3178
BUFFER PH 7.00 GREEN 1PINT PK6	W3093
PH 10.01 BUFFER, COLOR CD 475ML	W3191
buffer solution pH 7 yellow	W3071
Buffer Solution, PH2 (500ml)	W3161
pH 12.00 Buffer	W3200

True Value of ICV = 7.00 Control Limits[+/- 0.1].

True Value of CCV1 = 2.00 Control Limits[+/- 0.05].

True Value of CCV2 = 12.00 Control Limits[+/- 0.05].

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	06/18/2025	10:30
2	CAL2	1	Water	NA	NA	20.2	7.00	06/18/2025	10:31
3	CAL3	1	Water	NA	NA	20.3	10.02	06/18/2025	10:33
4	ICV	1	Water	NA	NA	20.3	6.98	06/18/2025	10:37
5	CCV1	1	Water	NA	NA	20.2	2.01	06/18/2025	10:40
6	Q2344-01	1	Water	NA	NA	20.4	6.16	06/18/2025	10:47
7	Q2344-03	1	Water	NA	NA	20.3	6.86	06/18/2025	10:55
8	Q2344-05	1	Water	NA	NA	20.4	6.80	06/18/2025	11:00
9	Q2344-07	1	Water	NA	NA	20.3	6.83	06/18/2025	11:10
10	Q2344-07DUP	1	Water	NA	NA	20.4	6.84	06/18/2025	11:15
11	CCV2	1	Water	NA	NA	20.2	12.02	06/18/2025	11:20

WORKLIST(Hardcopy Internal Chain)

17196185

WorkList Name : PH Q2344 W WorkList ID : 190259 Department : Wet-Chemistry Date : 06-18-2025 10:17:36

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q2344-01	D MW-1	Water	pH	Cool 4 deg C	LOCK01	D31	06/16/2025	SM 4500-H B
Q2344-03	D MW-3	Water	pH	Cool 4 deg C	LOCK01	D31	06/16/2025	SM 4500-H B
Q2344-05	D MW-4	Water	pH	Cool 4 deg C	LOCK01	D31	06/16/2025	SM 4500-H B
Q2344-07	P MW-2	Water	pH	Cool 4 deg C	LOCK01	D31	06/16/2025	SM 4500-H B

Date/Time 06/18/25 10:25
Raw Sample Received by: [Signature]
Raw Sample Relinquished by: [Signature]

Date/Time 06/18/25 13:00
Raw Sample Received by: [Signature]
Raw Sample Relinquished by: [Signature]

TOTAL Dissolved Solids - SM2540C

Run Number: LB136186

SUPERVISOR: Iwona

ANALYST: jignesh

Date: 06/18/2025

BalanceID: WC SC-6

Filter ID: 17416528

EMPTY DISH				EMPTY DISH				OvenID:	WC OVEN-1	Thermo ID:	WET IVEN-1
TEMP IN:	103 °C	06/17/2025	11:00	TEMP OUT:	104 °C	06/17/2025	12:00				
TEMP1 IN:	103 °C	06/17/2025	12:30	TEMP1 OUT:	103 °C	06/17/2025	13:30	OvenID1:	WC OVEN-1	Thermo ID1:	WET OVEN#1
TEMP2 IN:	104 °C	06/17/2025	17:20	TEMP2 OUT:	103 °C	06/18/2025	08:00	OvenID2:	WC OVEN-2	Thermo ID2:	WET OVEN#2
TEMP3 IN:	180 °C	06/18/2025	08:05	TEMP3 OUT:	182 °C	06/18/2025	10:00	OvenID3:	WC OVEN-2	Thermo ID3:	WET OVEN#2

Dish #	Lab ID	Client ID	Empty Dish Weight (g)	Final Empty Dish Weight (g)	Sample Volume (ml)	1st Empty Dish+Sample weight after 1.5hr drying @180(±2) °C (g)	2nd Empty Dish+Sample weight after 1.5hr drying @180(±2) °C (g)	Final Empty Dish+Sample weight after 1.5hr drying @180(±2) °C (g)	Weight (g)	Result mg/L
1	LB136186BL	LB136186BL	74.0122	74.0122	100	74.0122	74.0122	74.0122	0.0000	0
2	LB136186BS	LB136186BS	98.6371	98.6371	100	98.6466	98.6466	98.6466	0.0095	95
3	Q2316-02	RW8-SP303-20250612	143.6303	143.6303	100	143.6304	143.6304	143.6304	0.0001	1
4	Q2316-02DUP	RW8-SP303-20250612DUP	153.0007	153.0007	100	153.0008	153.0008	153.0008	0.0001	1
5	Q2344-01	MW-1	106.1516	106.1516	100	106.1652	106.1652	106.1652	0.0136	136
6	Q2344-03	MW-3	110.2271	110.2271	100	110.2900	110.2900	110.2900	0.0629	629
7	Q2344-05	MW-4	156.5915	156.5915	100	156.6480	156.6480	156.6480	0.0565	565
8	Q2344-07	MW-2	152.1969	152.1969	100	152.2767	152.2767	152.2767	0.0798	798

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)

$$\text{Weight (g)} = C - B$$

$$\text{Result mg/L} = \frac{D}{A} * 1000 * 1000$$

Q2136186

WORKLIST(Hardcopy Internal Chain)

WorkList Name : tds q2316 WorkList ID : 190222 Department : Wet-Chemistry Date : 06-17-2025 07:52:15

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q2344-01	D MW-1	Water	TDS	Cool 4 deg C	LOCK01	D31	06/16/2025	SM2540 C
Q2344-03	D MW-3	Water	TDS	Cool 4 deg C	LOCK01	D31	06/16/2025	SM2540 C
Q2344-05	D MW-4	Water	TDS	Cool 4 deg C	LOCK01	D31	06/16/2025	SM2540 C
Q2344-07	D MW-2	Water	TDS	Cool 4 deg C	LOCK01	D31	06/16/2025	SM2540 C
Q2316-02	B RW8-SP303-20250612	Water	TDS	Cool 4 deg C	TETR06	D41	06/12/2025	SM2540 C

Date/Time 06/17/25 16:25
Raw Sample Received by: [Signature]
Raw Sample Relinquished by: [Signature]

Date/Time 06/17/25 18:00
Raw Sample Received by: [Signature]
Raw Sample Relinquished by: [Signature]

Analytical Summary Report

Analysis Method: SM2130 B

ANALYST: Eman

Parameter: Turbidity

SUPERVISOR REVIEW BY: Iwona

Run Number: LB136188

Reagent/Standard	Lot/Log #
TURBIDITY LOD STD, 0.5NTU	WP113569
Turbidity Calibration std, 0NTU	WP113563
Turbidity Calibration std, 20NTU	WP113558
Turbidity Calibration std, 80NTU	WP113564
Turbidity Calibration std, 40NTU	WP113557
Turbidity Calibration std, 1NTU	WP113561
Turbidity Calibration std, 5NTU	WP113560
Turbidity LOQ std, 1.0NTU	WP113568
Turbidity Calibration - CCV std, 10 NTU	WP113559
10 NTU Standard 500 ml	W3116

Intercept: -0.3653

Slope: 0.9787

Regression: 0.9998

Seq	Lab ID	True Value (NTU)	Dilution	Reading	Result (mg/l)	%D	Anal Date	Anal Time
1	CAL1	0	1	0.095	0.47		06/18/2025	08:30
2	CAL2	1	1	0.855	1.25	24.7	06/18/2025	08:33
3	CAL3	5	1	4.830	5.31	6.2	06/18/2025	08:36
4	CAL4	10	1	9.240	9.81	-1.9	06/18/2025	08:40
5	CAL5	20	1	18.700	19.48	-2.6	06/18/2025	08:43
6	CAL6	40	1	37.900	39.10	-2.3	06/18/2025	08:46
7	CAL7	80	1	78.500	80.58	0.7	06/18/2025	08:50

Analysis Method: SM2130 B

ANALYST: Eman

Parameter: Turbidity

SUPERVISOR REVIEW BY: Iwona

Run Number: LB136188

Seq	Lab ID	True Value (NTU)	Dilution	Reading	Result (NTU)	AnalDate	Anal Time
1	ICV	10	1	8.510	9.068	06/18/2025	08:53
2	ICB		1	0.072	0.447	06/18/2025	08:56
3	CCV1	10	1	9.520	10.100	06/18/2025	09:00
4	CCB1		1	0.074	0.449	06/18/2025	09:03
5	LB136188BL		1	0.071	0.446	06/18/2025	09:06
6	Q2126-10		1	0.320	0.700	06/18/2025	09:10
7	Q2126-11		1	0.916	1.309	06/18/2025	09:13
8	Q2344-01		1	0.759	1.149	06/18/2025	09:16
9	Q2344-01DUP		1	0.762	1.152	06/18/2025	09:20
10	Q2344-03		1	0.924	1.317	06/18/2025	09:23
11	Q2344-05		1	0.928	1.321	06/18/2025	09:26
12	Q2344-07		1	50.500	51.972	06/18/2025	09:30
13	CCV2	10	1	8.670	9.232	06/18/2025	09:33
14	CCB2		1	0.080	0.455	06/18/2025	09:36

WORKLIST(Hardcopy Internal Chain)

LB136188

WorkList Name : TURBIDITY-061725

WorkList ID : 190246

Department : Wet-Chemistry

Date : 06-17-2025 16:56:35

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q2344-01	MW-1	Water	Turbidity	Cool 4 deg C	LOCK01	D31	06/16/2025	SM2130 B
Q2344-03	MW-3	Water	Turbidity	Cool 4 deg C	LOCK01	D31	06/16/2025	SM2130 B
Q2344-05	MW-4	Water	Turbidity	Cool 4 deg C	LOCK01	D31	06/16/2025	SM2130 B
Q2344-07	MW-2	Water	Turbidity	Cool 4 deg C	LOCK01	D31	06/16/2025	SM2130 B

Date/Time 06/18/25 8:15
 Raw Sample Received by: EM (WC)
 Raw Sample Relinquished by: (signature)

Date/Time 06/18/25 09:45
 Raw Sample Received by: (signature)
 Raw Sample Relinquished by: EM (WC)

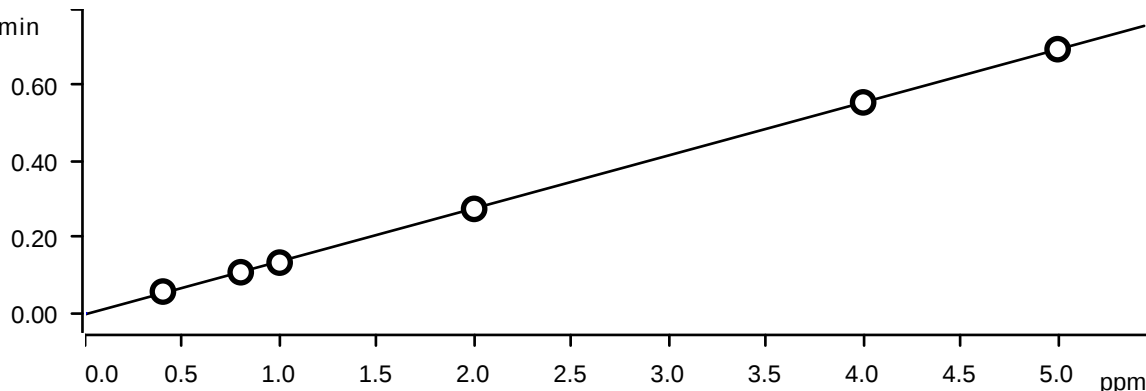
Instrument IC-1										Method: 300.0 / 9056A		Analyst: NF		Initial wt/Fi Analyst	
Ident	Con F-	Con CL-	Con NO2	Con BR-	Con NO3	Con HPO4	Con SO4	Method name	date time						
STD1	0.000	0.000	0.000	0.000	0.000	0.000	0.000	IC1-052225	5/22/2025 11:09					10 NF/IZ	
STD2	0.430	0.640	0.649	2.129	0.543	1.098	3.287	IC1-052225	5/22/2025 11:30					10 NF/IZ	
STD3	0.795	1.207	1.205	4.018	1.004	1.867	6.069	IC1-052225	5/22/2025 11:52					10 NF/IZ	
STD4	0.977	1.480	1.479	4.929	1.229	2.477	7.415	IC1-052225	5/22/2025 12:13					10 NF/IZ	
STD5	1.991	2.968	2.960	9.916	2.467	5.110	14.621	IC1-052225	5/22/2025 12:35					10 NF/IZ	
STD6	4.001	5.967	5.959	19.868	4.966	9.870	29.848	IC1-052225	5/22/2025 12:56					10 NF/IZ	
STD7	5.006	7.539	7.548	25.140	6.290	12.578	37.260	IC1-052225	5/22/2025 13:17					10 NF/IZ	
ICV	2.054	3.101	3.056	10.229	2.610	5.286	15.128	IC1-052225	5/22/2025 13:39					10 NF/IZ	
ICB	0.000	0.000	0.000	0.000	0.000	0.000	0.000	IC1-052225	5/22/2025 14:22					10 NF/IZ	
CCV	2.084	3.081	3.082	10.323	2.555	5.312	15.259	IC1-052225	6/17/2025 11:12					10 NF/IZ	
CCB	0.000	0.000	0.000	0.000	0.000	0.000	0.000	IC1-052225	6/17/2025 11:33					10 NF/IZ	
LB136191BLW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	IC1-052225	6/17/2025 11:55					10 NF/IZ	
LB136191BSW	2.097	3.079	3.088	10.316	2.557	5.363	15.300	IC1-052225	6/17/2025 12:16					10 NF/IZ	
Q2344-01	0.123	112.230	0.000	0.212	1.843	0.000	31.685	IC1-052225	6/17/2025 16:42					10 NF/IZ	
Q2344-01MS	2.191	110.543	3.059	10.302	4.338	5.007	46.445	IC1-052225	6/17/2025 17:04					10 NF/IZ	
Q2344-01MSD	2.158	110.445	2.990	10.084	4.280	5.227	46.082	IC1-052225	6/17/2025 17:25					10 NF/IZ	
Q2344-03	0.194	246.000	0.000	0.227	3.770	0.000	77.789	IC1-052225	6/17/2025 17:47					10 NF/IZ	
Q2344-05	0.204	245.807	0.000	0.219	3.773	0.000	77.547	IC1-052225	6/17/2025 18:08					10 NF/IZ	
Q2344-07	0.234	386.759	0.000	0.462	0.789	0.000	29.190	IC1-052225	6/17/2025 18:30					10 NF/IZ	
CCV	2.083	3.083	3.086	10.281	2.554	5.326	15.210	IC1-052225	6/17/2025 18:52					10 NF/IZ	
CCB	0.000	0.000	0.000	0.000	0.000	0.000	0.000	IC1-052225	6/17/2025 19:13					10 NF/IZ	
CCV	2.090	3.089	3.086	10.347	2.567	5.059	15.284	IC1-052225	6/18/2025 10:32					10 NF/IZ	
CCB	0.000	0.000	0.000	0.000	0.000	0.000	0.000	IC1-052225	6/18/2025 10:53					10 NF/IZ	
LB136191BLW2	0.000	0.000	0.000	0.000	0.000	0.000	0.000	IC1-052225	6/18/2025 11:15					10 NF/IZ	
LB136191BSW2	2.090	3.084	3.090	10.328	2.572	5.143	15.257	IC1-052225	6/18/2025 11:36					10 NF/IZ	
Q2344-01DLX20	0.000	4.241	0.000	0.000	0.132	0.000	1.896	IC1-052225	6/18/2025 11:58					10 NF/IZ	
Q2344-03DLX5	0.058	40.076	0.000	0.000	0.767	0.000	14.323	IC1-052225	6/18/2025 12:20					10 NF/IZ	
Q2344-03DLX50	0.000	3.479	0.000	0.000	0.119	0.000	1.795	IC1-052225	6/18/2025 12:41					10 NF/IZ	
Q2344-05DLX5	0.051	39.964	0.000	0.000	0.765	0.000	14.303	IC1-052225	6/18/2025 13:03					10 NF/IZ	
Q2344-05DLX50	0.000	3.451	0.000	0.000	0.120	0.000	1.790	IC1-052225	6/18/2025 13:24					10 NF/IZ	
Q2344-07DLX100	0.000	2.494	0.000	0.000	0.000	0.000	0.681	IC1-052225	6/18/2025 13:46					10 NF/IZ	
CCV	2.087	3.083	3.087	10.303	2.563	5.328	15.289	IC1-052225	6/18/2025 14:07					10 NF/IZ	
CCB	0.000	0.000	0.000	0.000	0.000	0.000	0.000	IC1-052225	6/18/2025 14:29					10 NF/IZ	

Clear table

Instrument ID: IC-2 Analyst : IZ Method: 300.0 / 9056A									
ident	concentra tion F-	concentratio n CL-	concentrati on NO2	concentrati on BR-	concentrati on NO3	concentrati on HPO4	concentrati on SO4	file name	Initial wt/ Final
STD1	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	IC1-052225	10 NF/IZ
STD2	0.4300	0.6400	0.6490	2.1290	0.5430	1.0980	3.2870	IC1-052225	10 NF/IZ
STD3	0.7950	1.2070	1.2050	4.0180	1.0040	1.8670	6.0690	IC1-052225	10 NF/IZ
STD4	0.9770	1.4800	1.4790	4.9290	1.2290	2.4770	7.4150	IC1-052225	10 NF/IZ
STD5	1.9910	2.9680	2.9600	9.9160	2.4670	5.1100	14.6210	IC1-052225	10 NF/IZ
STD6	4.0010	5.9670	5.9590	19.8680	4.9660	9.8700	29.8480	IC1-052225	10 NF/IZ
STD7	5.0060	7.5390	7.5480	25.1400	6.2900	12.5780	37.2600	IC1-052225	10 NF/IZ
date time	5/22/2025 11:09	5/22/2025 11:30	5/22/2025 11:52	5/22/2025 12:13	5/22/2025 12:35	5/22/2025 12:56	5/22/2025 13:17		
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	7.5000	6.6667	8.1667	6.4500	8.6000	9.8000	9.5667		
STD2	-0.6250	0.5833	0.4167	0.4500	0.4000	-6.6500	1.1500		
STD3	-2.3000	-1.3333	-1.4000	-1.4200	-1.6800	-0.9200	-1.1333		
STD4	-0.4500	-1.0667	-1.3333	-0.8400	-1.3200	2.2000	-2.5267		
STD5	0.0250	-0.5500	-0.6833	-0.6600	-0.6800	-1.3000	-0.5067		
STD6	0.1200	0.5200	0.6400	0.5600	0.6400	0.6240	0.7027		

Fluoride (Anions)

($\mu\text{S}/\text{cm}$) x min



Function: $A = -2.82659E-3 + 0.0139492 \times Q$

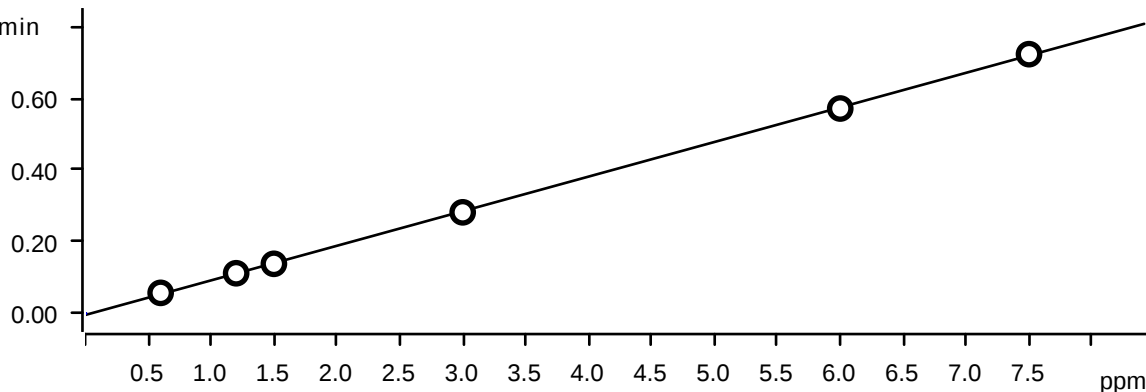
Relative standard deviation 0.920519 %

Correlation coefficient 0.999955

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	2025-05-22 11:09:38 UTC-4	used
Standard 2	1	0.400	10.0	1.0	1.0	0.057	STD2	2025-05-22 11:30:53 UTC-4	used
Standard 3	1	0.800	10.0	1.0	1.0	0.108	STD3	2025-05-22 11:52:16 UTC-4	used
Standard 4	1	1.000	10.0	1.0	1.0	0.133	STD4	2025-05-22 12:13:41 UTC-4	used
Standard 5	1	2.000	10.0	1.0	1.0	0.275	STD5	2025-05-22 12:35:06 UTC-4	used
Standard 6	1	4.000	10.0	1.0	1.0	0.555	STD6	2025-05-22 12:56:31 UTC-4	used
Standard 7	1	5.000	10.0	1.0	1.0	0.695	STD7	2025-05-22 13:17:57 UTC-4	used

Chloride (Anions)

($\mu\text{S}/\text{cm}$) x min



Function: $A = -4.33057E-3 + 9.64673E-3 \times Q$

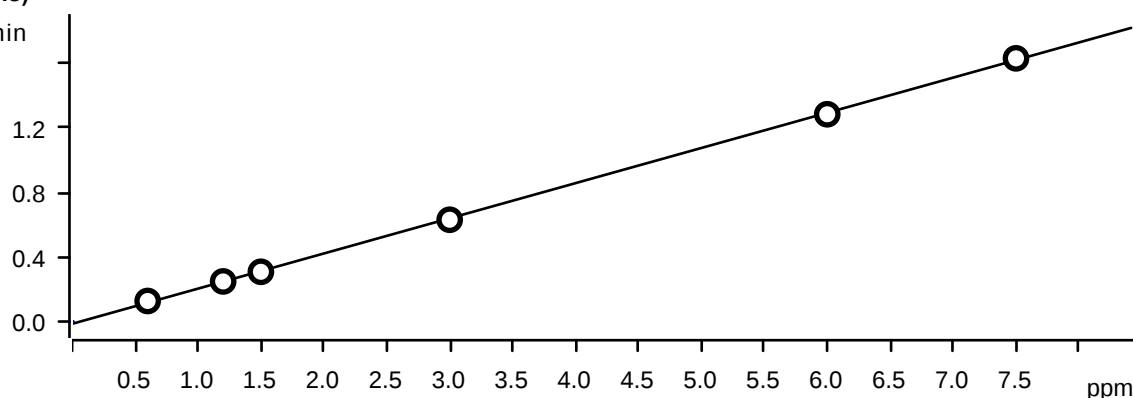
Relative standard deviation 1.154335 %

Correlation coefficient 0.999929

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	2025-05-22 11:09:38 UTC-4	used
Standard 2	1	0.600	10.0	1.0	1.0	0.057	STD2	2025-05-22 11:30:53 UTC-4	used
Standard 3	1	1.200	10.0	1.0	1.0	0.112	STD3	2025-05-22 11:52:16 UTC-4	used
Standard 4	1	1.500	10.0	1.0	1.0	0.138	STD4	2025-05-22 12:13:41 UTC-4	used
Standard 5	1	3.000	10.0	1.0	1.0	0.282	STD5	2025-05-22 12:35:06 UTC-4	used
Standard 6	1	6.000	10.0	1.0	1.0	0.571	STD6	2025-05-22 12:56:31 UTC-4	used
Standard 7	1	7.500	10.0	1.0	1.0	0.723	STD7	2025-05-22 13:17:57 UTC-4	used

Nitrite (Anions)

(μS/cm) x min

Function: $A = -0.0150155 + 0.0217890 \times Q$

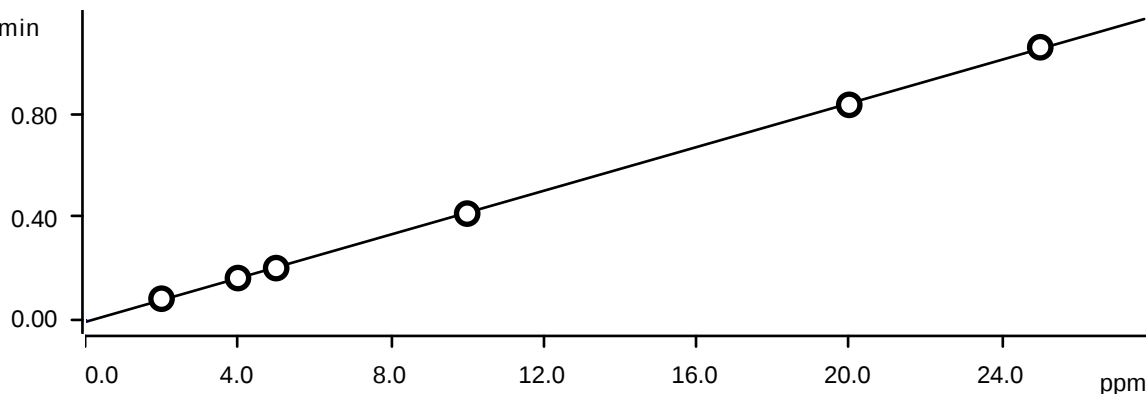
Relative standard deviation 1.428639 %

Correlation coefficient 0.999893

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	2025-05-22 11:09:38 UTC-4	used
Standard 2	1	0.600	10.0	1.0	1.0	0.126	STD2	2025-05-22 11:30:53 UTC-4	used
Standard 3	1	1.200	10.0	1.0	1.0	0.248	STD3	2025-05-22 11:52:16 UTC-4	used
Standard 4	1	1.500	10.0	1.0	1.0	0.307	STD4	2025-05-22 12:13:41 UTC-4	used
Standard 5	1	3.000	10.0	1.0	1.0	0.630	STD5	2025-05-22 12:35:06 UTC-4	used
Standard 6	1	6.000	10.0	1.0	1.0	1.283	STD6	2025-05-22 12:56:31 UTC-4	used
Standard 7	1	7.500	10.0	1.0	1.0	1.630	STD7	2025-05-22 13:17:57 UTC-4	used

Bromide (Anions)

($\mu\text{S}/\text{cm}$) $\times$ min



Function: $A = -6.27114E-3 + 4.23162E-3 \times Q$

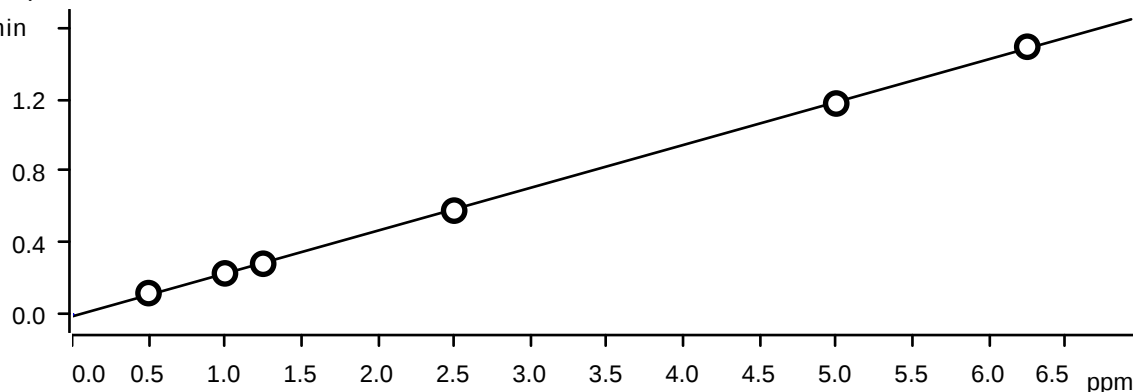
Relative standard deviation: 1.185575 %

Correlation coefficient: 0.999925

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	2025-05-22 11:09:38 UTC-4	used
Standard 2	1	2.000	10.0	1.0	1.0	0.084	STD2	2025-05-22 11:30:53 UTC-4	used
Standard 3	1	4.000	10.0	1.0	1.0	0.164	STD3	2025-05-22 11:52:16 UTC-4	used
Standard 4	1	5.000	10.0	1.0	1.0	0.202	STD4	2025-05-22 12:13:41 UTC-4	used
Standard 5	1	10.000	10.0	1.0	1.0	0.413	STD5	2025-05-22 12:35:06 UTC-4	used
Standard 6	1	20.000	10.0	1.0	1.0	0.834	STD6	2025-05-22 12:56:31 UTC-4	used
Standard 7	1	25.000	10.0	1.0	1.0	1.058	STD7	2025-05-22 13:17:57 UTC-4	used

Nitrate (Anions)

($\mu\text{S}/\text{cm}$) $\times$ min

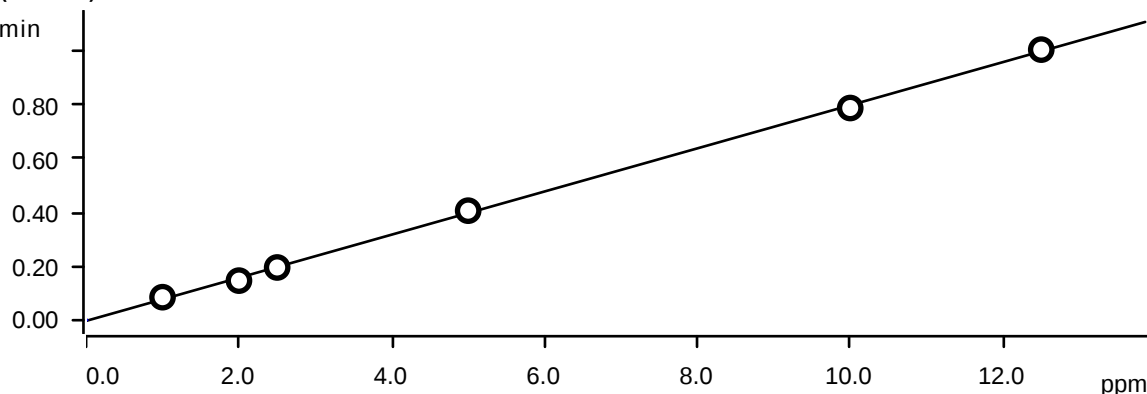


Function: $A = -0.0109593 + 0.0239055 \times Q$

Relative standard deviation: 1.451672 %

Correlation coefficient 0.999889

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	2025-05-22 11:09:38 UTC-4	used
Standard 2	1	0.500	10.0	1.0	1.0	0.119	STD2	2025-05-22 11:30:53 UTC-4	used
Standard 3	1	1.000	10.0	1.0	1.0	0.229	STD3	2025-05-22 11:52:16 UTC-4	used
Standard 4	1	1.250	10.0	1.0	1.0	0.283	STD4	2025-05-22 12:13:41 UTC-4	used
Standard 5	1	2.500	10.0	1.0	1.0	0.579	STD5	2025-05-22 12:35:06 UTC-4	used
Standard 6	1	5.000	10.0	1.0	1.0	1.176	STD6	2025-05-22 12:56:31 UTC-4	used
Standard 7	1	6.250	10.0	1.0	1.0	1.493	STD7	2025-05-22 13:17:57 UTC-4	used

Phosphate (Anions) $(\mu\text{S}/\text{cm}) \times \text{min}$ Function: $A = -3.02035E-3 + 8.01761E-3 \times Q$

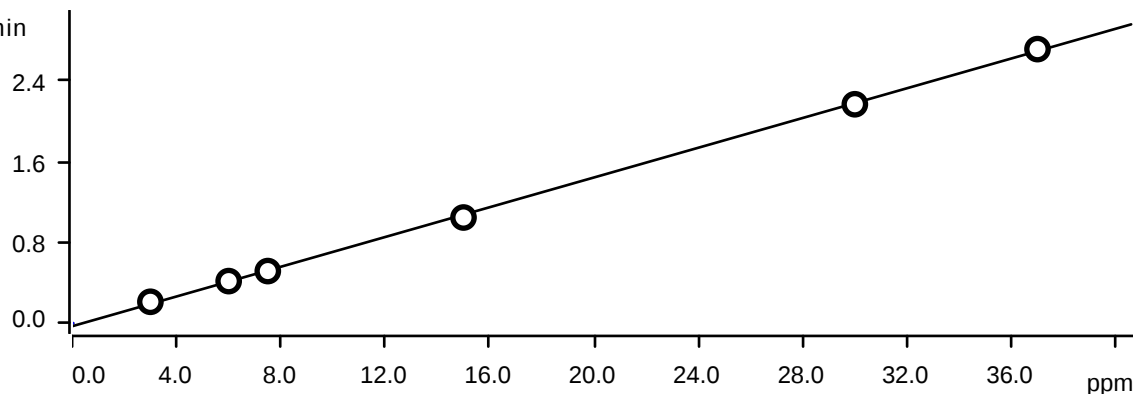
Relative standard deviation 2.297726 %

Correlation coefficient 0.999716

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	2025-05-22 11:09:38 UTC-4	used
Standard 2	1	1.000	10.0	1.0	1.0	0.085	STD2	2025-05-22 11:30:53 UTC-4	used
Standard 3	1	2.000	10.0	1.0	1.0	0.147	STD3	2025-05-22 11:52:16 UTC-4	used
Standard 4	1	2.500	10.0	1.0	1.0	0.196	STD4	2025-05-22 12:13:41 UTC-4	used
Standard 5	1	5.000	10.0	1.0	1.0	0.407	STD5	2025-05-22 12:35:06 UTC-4	used
Standard 6	1	10.000	10.0	1.0	1.0	0.788	STD6	2025-05-22 12:56:31 UTC-4	used
Standard 7	1	12.500	10.0	1.0	1.0	1.005	STD7	2025-05-22 13:17:57 UTC-4	used

Sulfate (Anions)

($\mu\text{S}/\text{cm}$) x min



Function: $A = -0.0303663 + 7.37295E-3 \times Q$

Relative standard deviation 1.792871 %

Correlation coefficient 0.999832

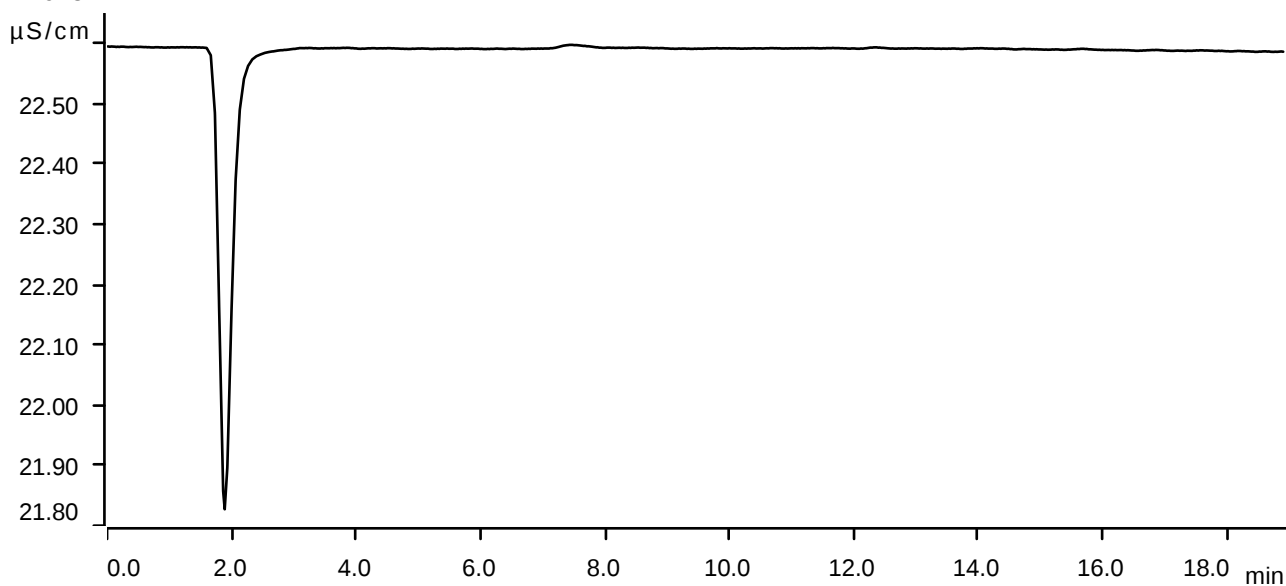
Sample type	Index	Conc.	Volume	Dilution	Sample amount	Area	Ident	Date	Used
Standard 1	1	0.000	10.0	1.0	1.0	n. d.	STD1	2025-05-22 11:09:38 UTC-4	used
Standard 2	1	3.000	10.0	1.0	1.0	0.212	STD2	2025-05-22 11:30:53 UTC-4	used
Standard 3	1	6.000	10.0	1.0	1.0	0.417	STD3	2025-05-22 11:52:16 UTC-4	used
Standard 4	1	7.500	10.0	1.0	1.0	0.516	STD4	2025-05-22 12:13:41 UTC-4	used
Standard 5	1	15.000	10.0	1.0	1.0	1.048	STD5	2025-05-22 12:35:06 UTC-4	used
Standard 6	1	30.000	10.0	1.0	1.0	2.170	STD6	2025-05-22 12:56:31 UTC-4	used
Standard 7	1	37.000	10.0	1.0	1.0	2.717	STD7	2025-05-22 13:17:57 UTC-4	used

Sample data

Ident STD1
Sample type Standard 1
Determination start 2025-05-22 11:09:38 UTC-4
Method IC1-052225
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 11.82 MPa
Maximum pressure monitored yes
Temperature ---- °C

Anions

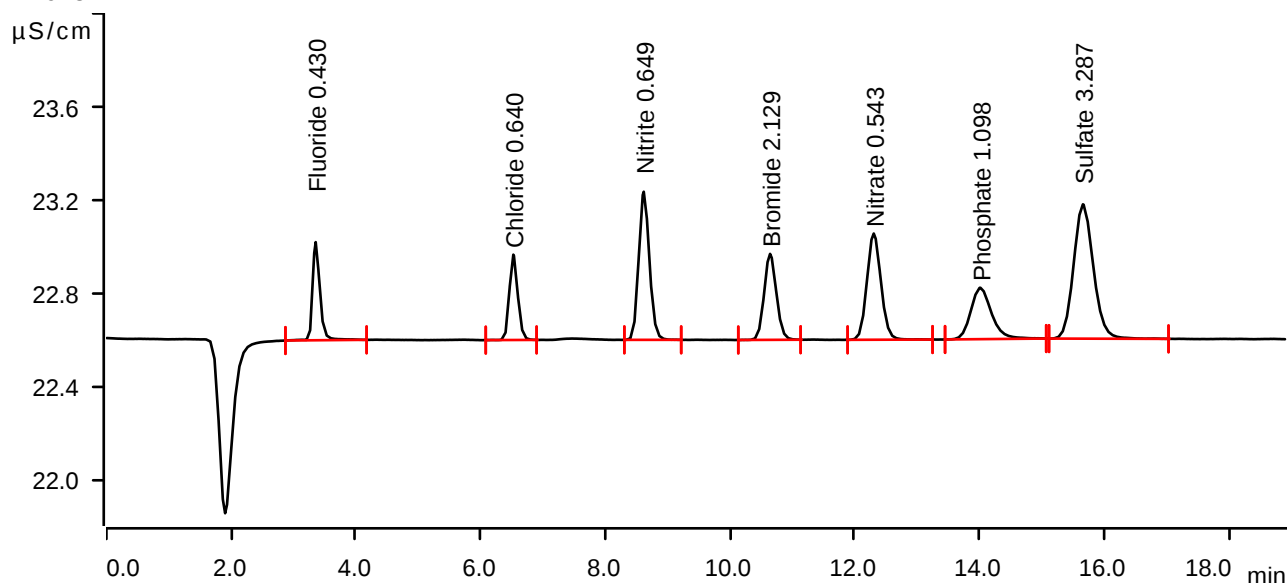
Sample data

Ident STD2
Sample type Standard 2
Determination start 2025-05-22 11:30:53 UTC-4
Method IC1-052225
Operator

Anions

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

Anions



Peak number	Retention time min	Area (µS/cm) x min	Height µS/cm	Concentration ppm	Component name
1	3.357	0.0572	0.421	0.430	Fluoride
2	6.525	0.0574	0.366	0.640	Chloride
3	8.617	0.1264	0.636	0.649	Nitrite
4	10.642	0.0838	0.369	2.129	Bromide
5	12.303	0.1190	0.456	0.543	Nitrate
6	14.013	0.0850	0.221	1.098	Phosphate
7	15.657	0.2120	0.577	3.287	Sulfate

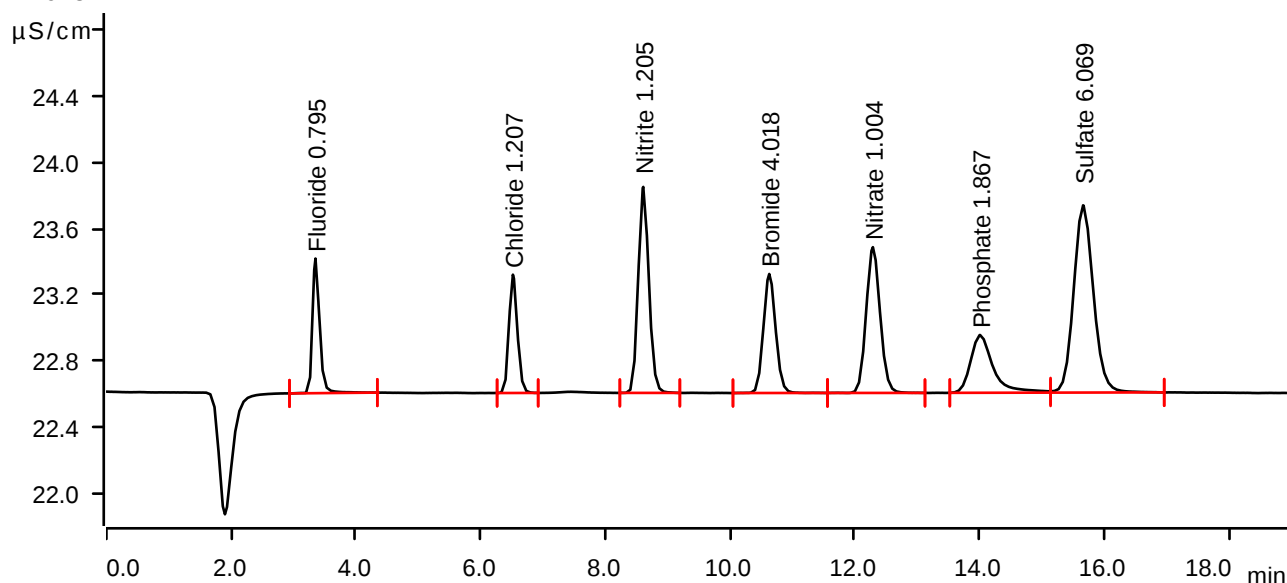
Sample data

Ident STD3
Sample type Standard 3
Determination start 2025-05-22 11:52:16 UTC-4
Method IC1-052225
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



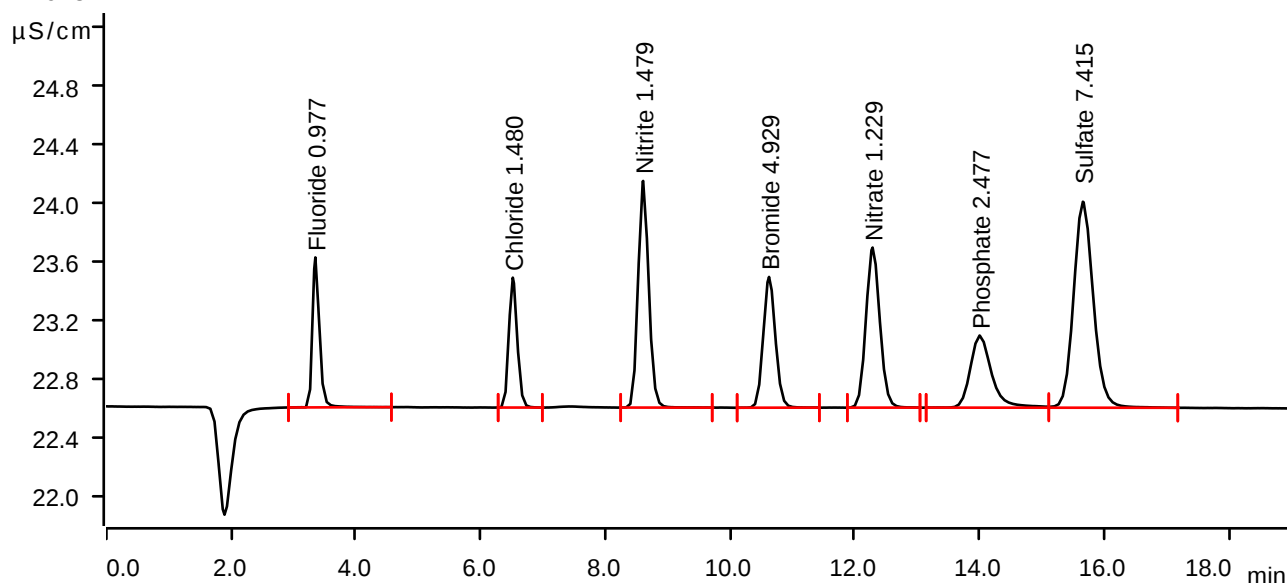
Peak number	Retention time min	Area (µS/cm) x min	Height µS/cm	Concentration ppm	Component name
1	3.353	0.1081	0.814	0.795	Fluoride
2	6.518	0.1121	0.716	1.207	Chloride
3	8.608	0.2475	1.247	1.205	Nitrite
4	10.628	0.1637	0.720	4.018	Bromide
5	12.290	0.2290	0.882	1.004	Nitrate
6	14.008	0.1467	0.350	1.867	Phosphate
7	15.660	0.4171	1.133	6.069	Sulfate

Sample data

Ident STD4
 Sample type Standard 4
 Determination start 2025-05-22 12:13:41 UTC-4
 Method IC1-052225
 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

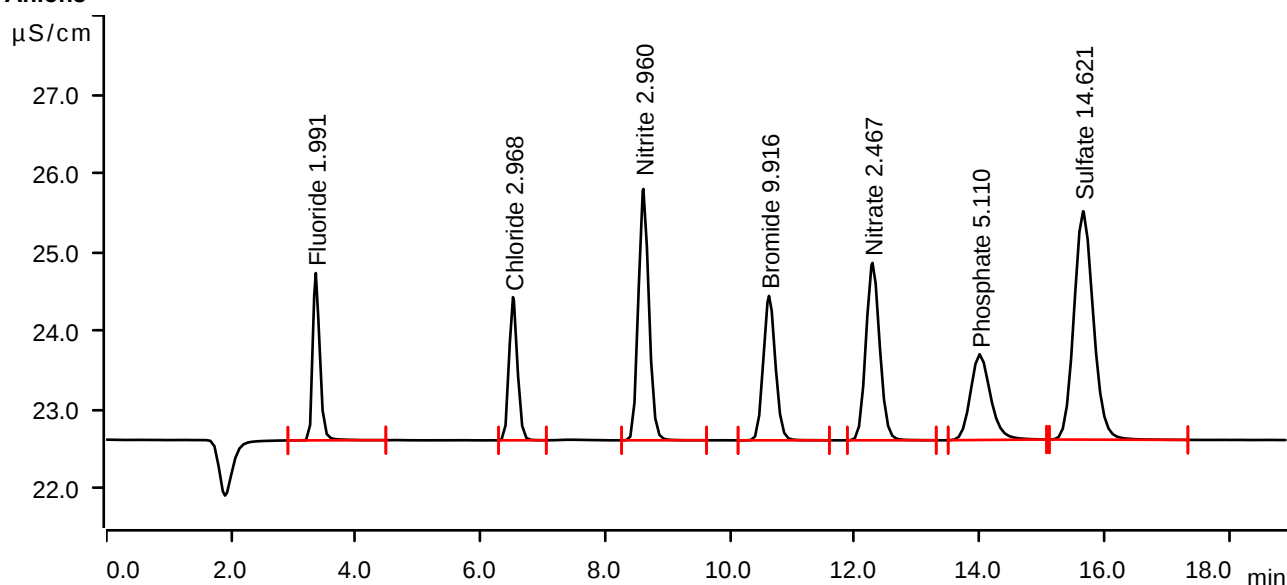
Peak number	Retention time min	Area (µS/cm) x min	Height µS/cm	Concentration ppm	Component name
1	3.352	0.1334	1.024	0.977	Fluoride
2	6.517	0.1384	0.888	1.480	Chloride
3	8.607	0.3073	1.549	1.479	Nitrite
4	10.625	0.2023	0.894	4.929	Bromide
5	12.285	0.2828	1.094	1.229	Nitrate
6	14.003	0.1955	0.493	2.477	Phosphate
7	15.657	0.5164	1.408	7.415	Sulfate

Sample data

Ident STD5
 Sample type Standard 5
 Determination start 2025-05-22 12:35:06 UTC-4
 Method IC1-052225
 Operator

Anions

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

Anions

Peak number	Retention time min	Area (µS/cm) x min	Height µS/cm	Concentration ppm	Component name
1	3.358	0.2749	2.123	1.991	Fluoride
2	6.520	0.2820	1.816	2.968	Chloride
3	8.610	0.6298	3.190	2.960	Nitrite
4	10.625	0.4133	1.833	9.916	Bromide
5	12.283	0.5789	2.251	2.467	Nitrate
6	14.002	0.4067	1.087	5.110	Phosphate
7	15.660	1.0476	2.898	14.621	Sulfate

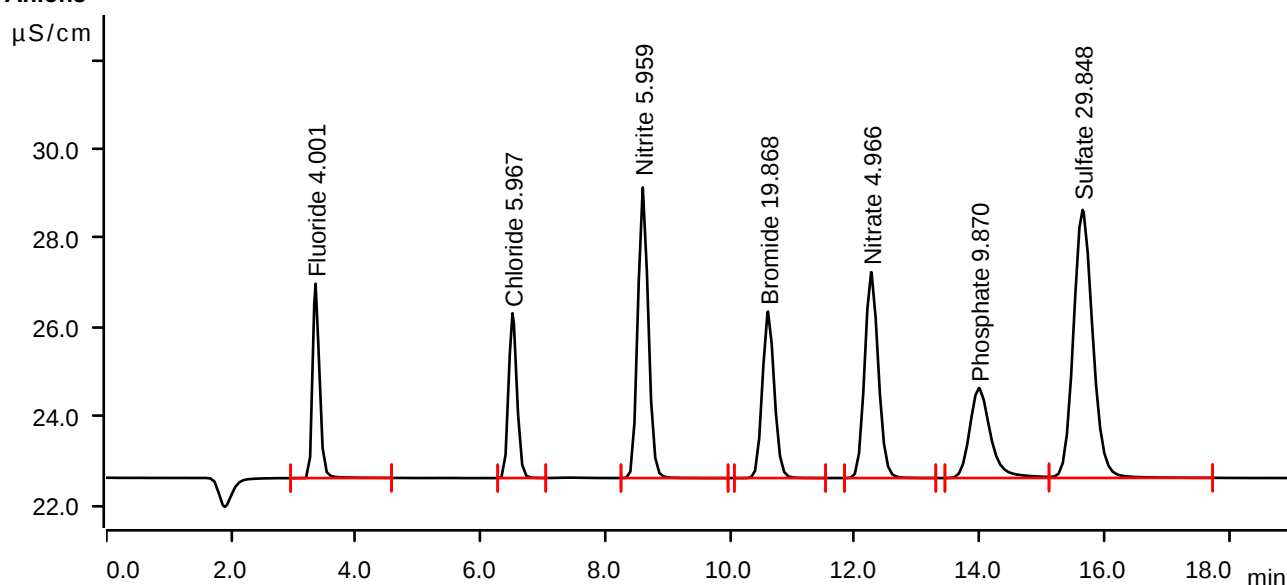
Sample data

Ident STD6
Sample type Standard 6
Determination start 2025-05-22 12:56:31 UTC-4
Method IC1-052225
Operator

Anions

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

Anions



Peak number	Retention time min	Area (µS/cm) x min	Height µS/cm	Concentration ppm	Component name
1	3.355	0.5553	4.361	4.001	Fluoride
2	6.512	0.5713	3.701	5.967	Chloride
3	8.602	1.2834	6.525	5.959	Nitrite
4	10.608	0.8345	3.739	19.868	Bromide
5	12.262	1.1762	4.624	4.966	Nitrate
6	13.990	0.7883	2.019	9.870	Phosphate
7	15.652	2.1703	6.019	29.848	Sulfate

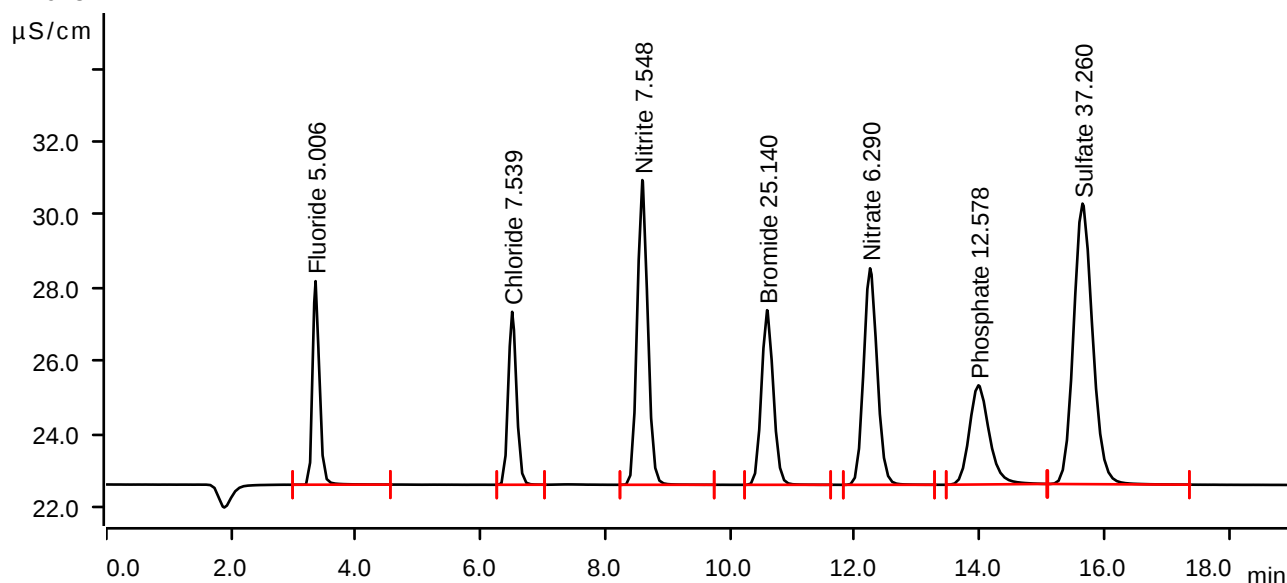
Sample data

Ident STD7
Sample type Standard 7
Determination start 2025-05-22 13:17:57 UTC-4
Method IC1-052225
Operator

Anions

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

Anions



Peak number	Retention time min	Area (µS/cm) x min	Height µS/cm	Concentration ppm	Component name
1	3.355	0.6954	5.562	5.006	Fluoride
2	6.507	0.7229	4.726	7.539	Chloride
3	8.593	1.6297	8.328	7.548	Nitrite
4	10.593	1.0576	4.774	25.140	Bromide
5	12.245	1.4927	5.918	6.290	Nitrate
6	13.982	1.0054	2.711	12.578	Phosphate
7	15.650	2.7168	7.668	37.260	Sulfate

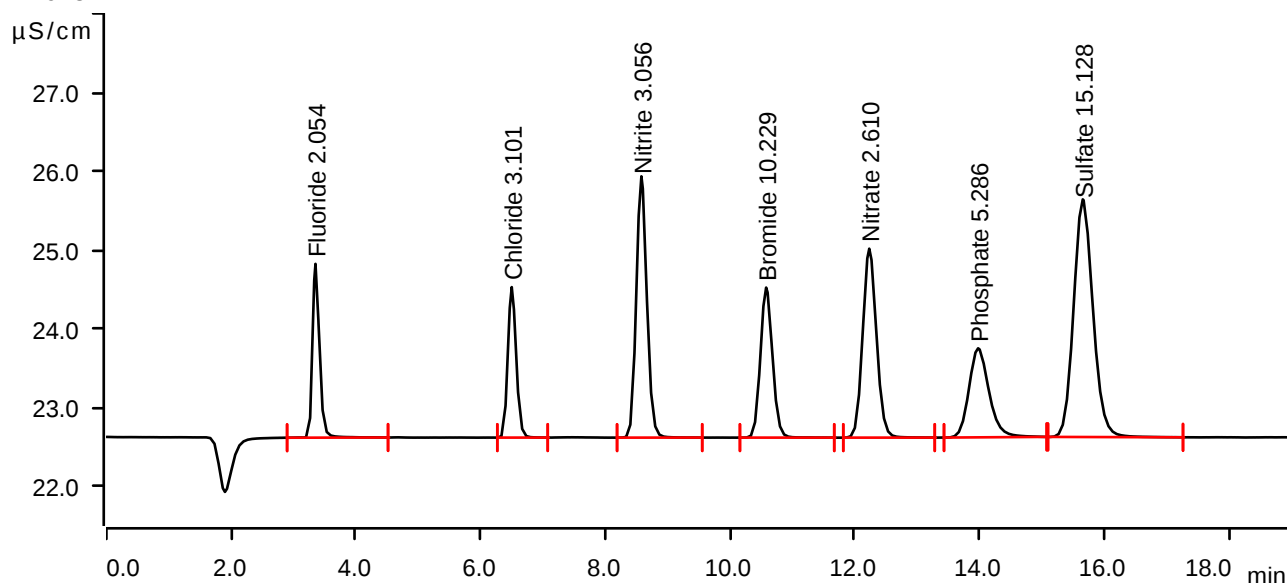
Sample data

Ident ICV
Sample type Check standard 1
Determination start 2025-05-22 13:39:25 UTC-4
Method IC1-052225
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 11.60 MPa
Maximum pressure monitored yes
Temperature ---- °C

Anions



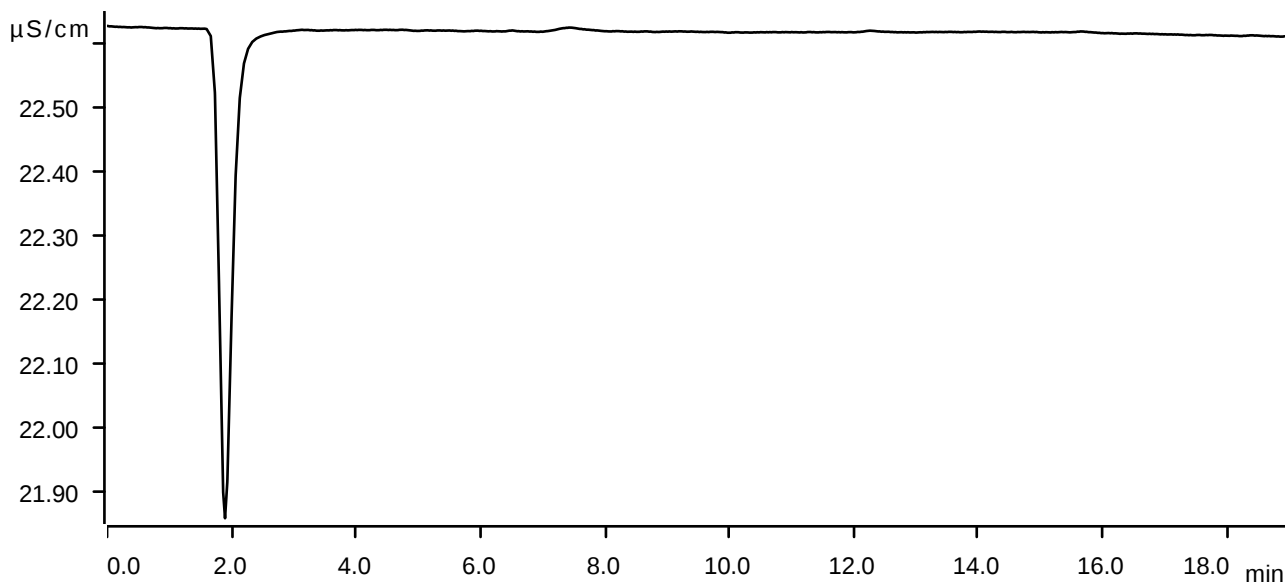
Peak number	Retention time min	Area (µS/cm) x min	Height µS/cm	Concentration ppm	Component name
1	3.353	0.2837	2.205	2.054	Fluoride
2	6.500	0.2948	1.910	3.101	Chloride
3	8.578	0.6509	3.316	3.056	Nitrite
4	10.578	0.4266	1.904	10.229	Bromide
5	12.232	0.6129	2.398	2.610	Nitrate
6	13.977	0.4208	1.130	5.286	Phosphate
7	15.655	1.0850	3.016	15.128	Sulfate

Sample data

Ident ICB
Sample type Sample
Determination start 2025-05-22 14:22:21 UTC-4
Method IC1-052225
Operator

Anions

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

Anions

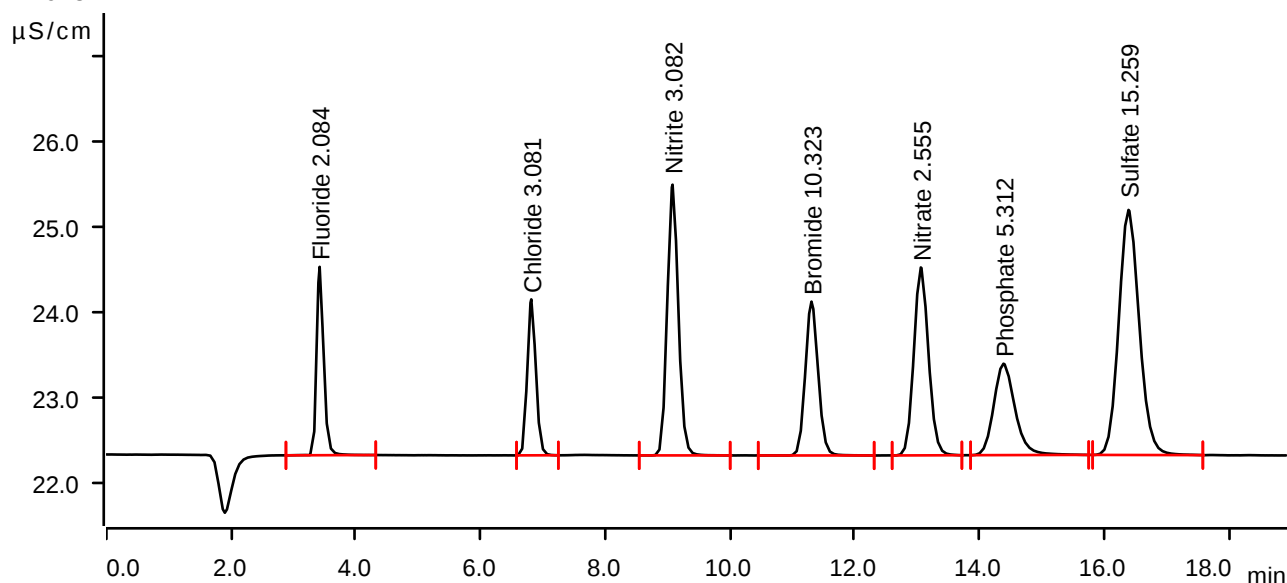
Sample data

Ident CCV
Sample type Check standard 1
Determination start 2025-06-17 11:12:21 UTC-4
Method IC1-052225
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 13.18 MPa
Maximum pressure monitored yes
Temperature ---- °C

Anions



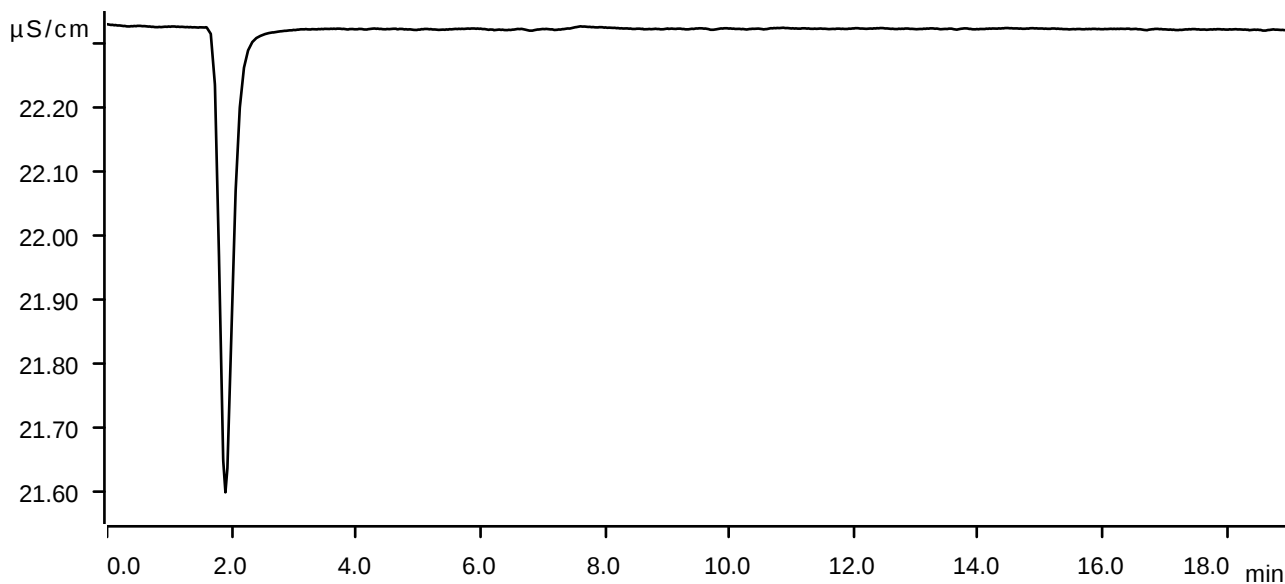
Peak number	Retention time min	Area (µS/cm) x min	Height µS/cm	Concentration ppm	Component name
1	3.420	0.2879	2.206	2.084	Fluoride
2	6.813	0.2929	1.827	3.081	Chloride
3	9.078	0.6566	3.171	3.082	Nitrite
4	11.305	0.4305	1.803	10.323	Bromide
5	13.058	0.5998	2.201	2.555	Nitrate
6	14.383	0.4229	1.071	5.312	Phosphate
7	16.388	1.0947	2.871	15.259	Sulfate

Sample data

Ident CCB
Sample type Sample
Determination start 2025-06-17 11:33:52 UTC-4
Method IC1-052225
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 13.06 MPa
Maximum pressure monitored yes
Temperature ---- °C

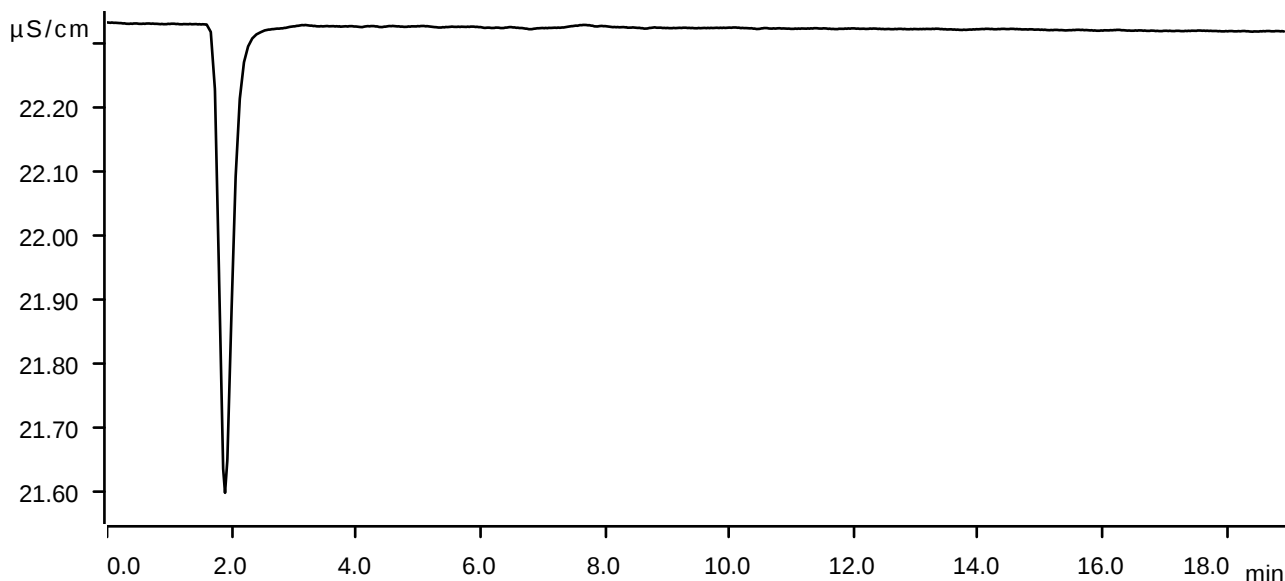
Anions

Sample data

Ident LB136191BLW
Sample type Sample
Determination start 2025-06-17 11:55:22 UTC-4
Method IC1-052225
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 13.01 MPa
Maximum pressure monitored yes
Temperature ---- °C

Anions

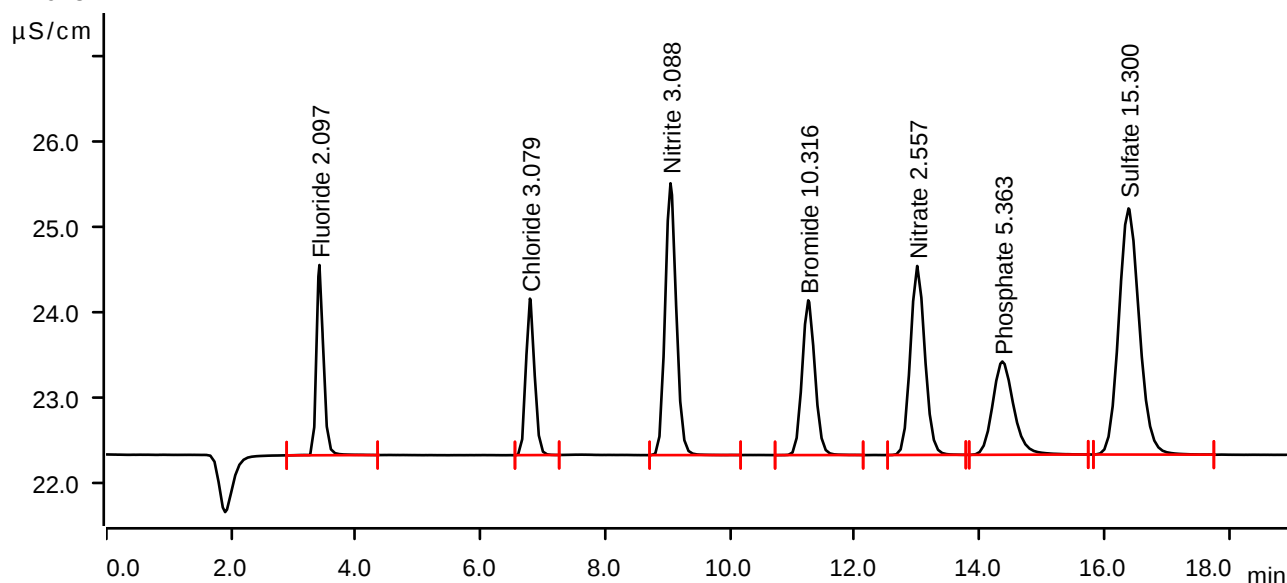
Sample data

Ident LB136191BSW
Sample type Check standard 1
Determination start 2025-06-17 12:16:54 UTC-4
Method IC1-052225
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 13.01 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	0.2898	2.228	2.097	Fluoride
2	6.792	0.2927	1.833	3.079	Chloride
3	9.045	0.6577	3.184	3.088	Nitrite
4	11.253	0.4303	1.813	10.316	Bromide
5	13.002	0.6003	2.214	2.557	Nitrate
6	14.365	0.4270	1.092	5.363	Phosphate
7	16.388	1.0977	2.884	15.300	Sulfate

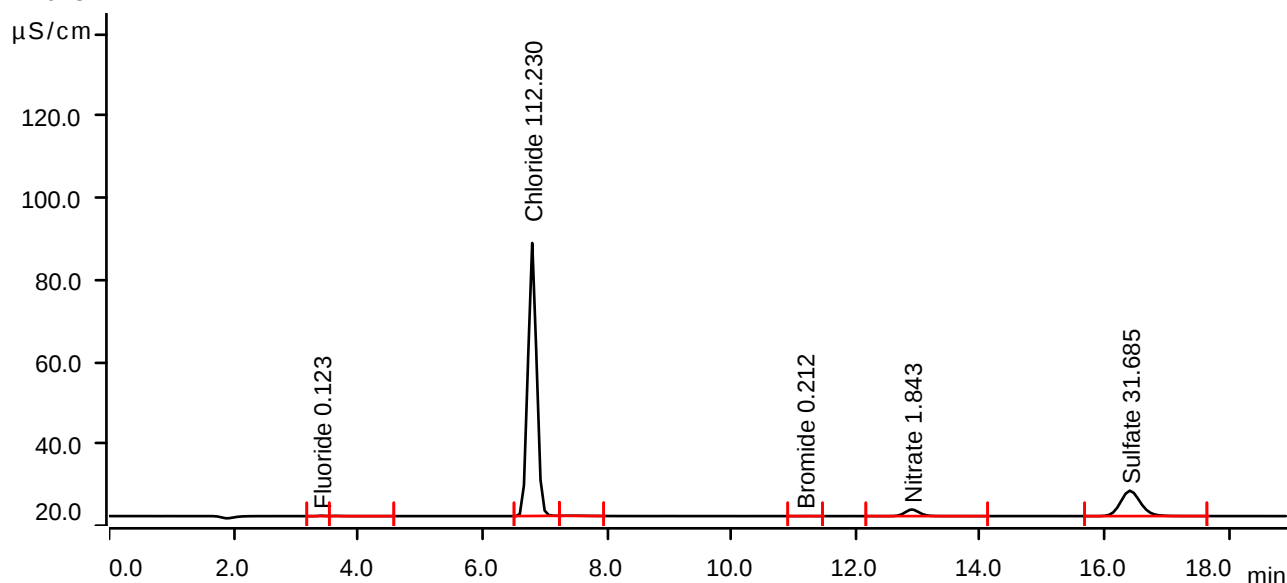
Sample data

Ident Q2344-01
Sample type Sample
Determination start 2025-06-17 16:42:47 UTC-4
Method IC1-052225
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 12.78 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	0.0144	0.105	0.123	Fluoride
2	3.647	0.0141	0.065	invalid	
3	6.802	10.8222	66.619	112.230	Chloride
4	7.415	0.0127	0.035	invalid	
5	11.177	0.0027	0.011	0.212	Bromide
6	12.900	0.4296	1.601	1.843	Nitrate
7	16.405	2.3058	6.187	31.685	Sulfate

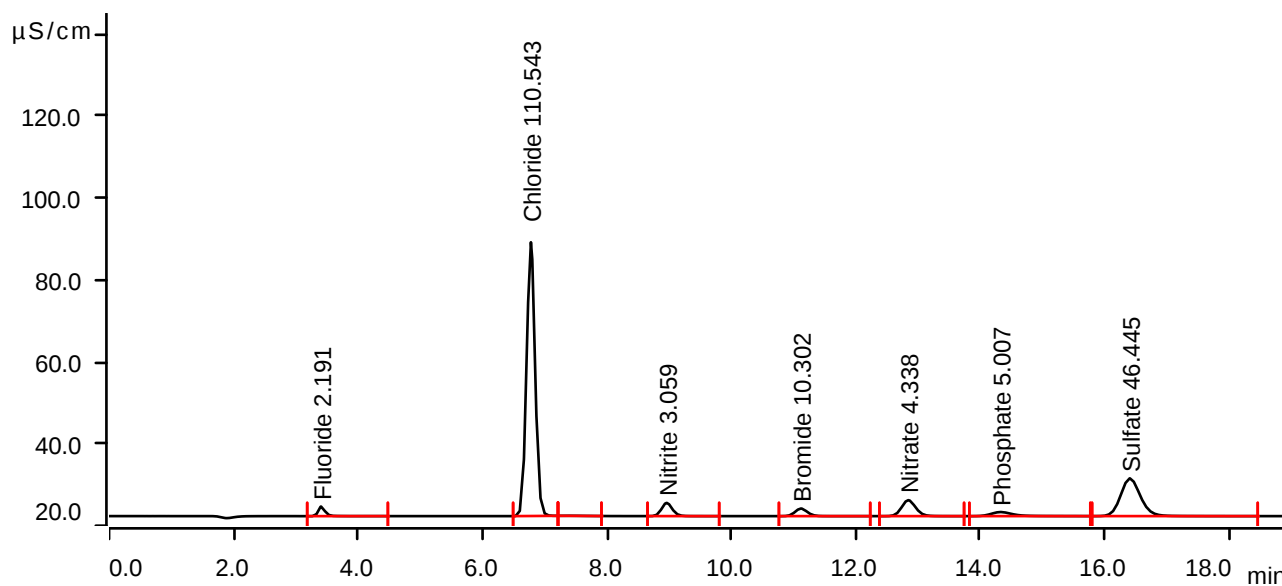
Sample data

Ident Q2344-01MS
Sample type Sample
Determination start 2025-06-17 17:04:20 UTC-4
Method IC1-052225
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 12.67 MPa
Maximum pressure monitored yes
Temperature ---- °C

Anions



Peak number	Retention time min	Area ($\mu\text{S/cm}$) x min	Height $\mu\text{S/cm}$	Concentration ppm	Component name
1	3.408	0.3028	2.340	2.191	Fluoride
2	6.780	10.6594	66.800	110.543	Chloride
3	7.395	0.0112	0.032	invalid	
4	8.962	0.6516	3.241	3.059	Nitrite
5	11.118	0.4297	1.857	10.302	Bromide
6	12.843	1.0260	3.900	4.338	Nitrate
7	14.327	0.3984	0.996	5.007	Phosphate
8	16.405	3.3940	9.213	46.445	Sulfate

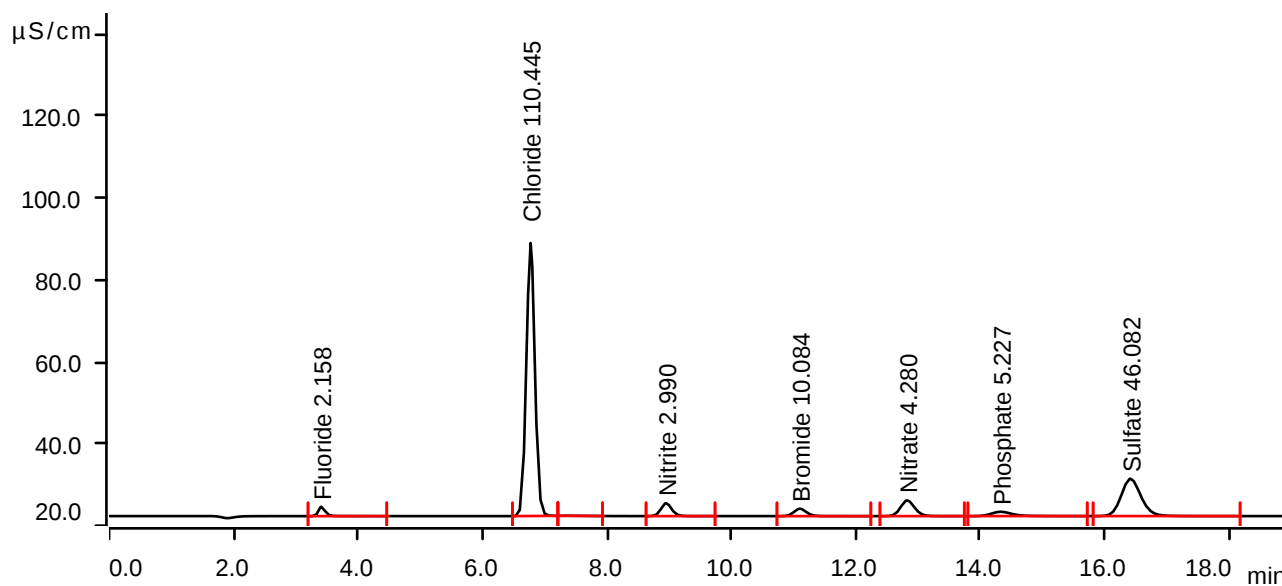
Sample data

Ident Q2344-01MSD
Sample type Sample
Determination start 2025-06-17 17:25:42 UTC-4
Method IC1-052225
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 12.61 MPa
Maximum pressure monitored yes
Temperature ---- °C

Anions



Peak number	Retention time min	Area ($\mu\text{S/cm}$) x min	Height $\mu\text{S/cm}$	Concentration ppm	Component name
1	3.412	0.2982	2.298	2.158	Fluoride
2	6.775	10.6500	66.627	110.445	Chloride
3	7.395	0.0109	0.032	invalid	
4	8.952	0.6364	3.168	2.990	Nitrite
5	11.102	0.4205	1.816	10.084	Bromide
6	12.827	1.0122	3.846	4.280	Nitrate
7	14.328	0.4160	1.059	5.227	Phosphate
8	16.413	3.3672	9.129	46.082	Sulfate

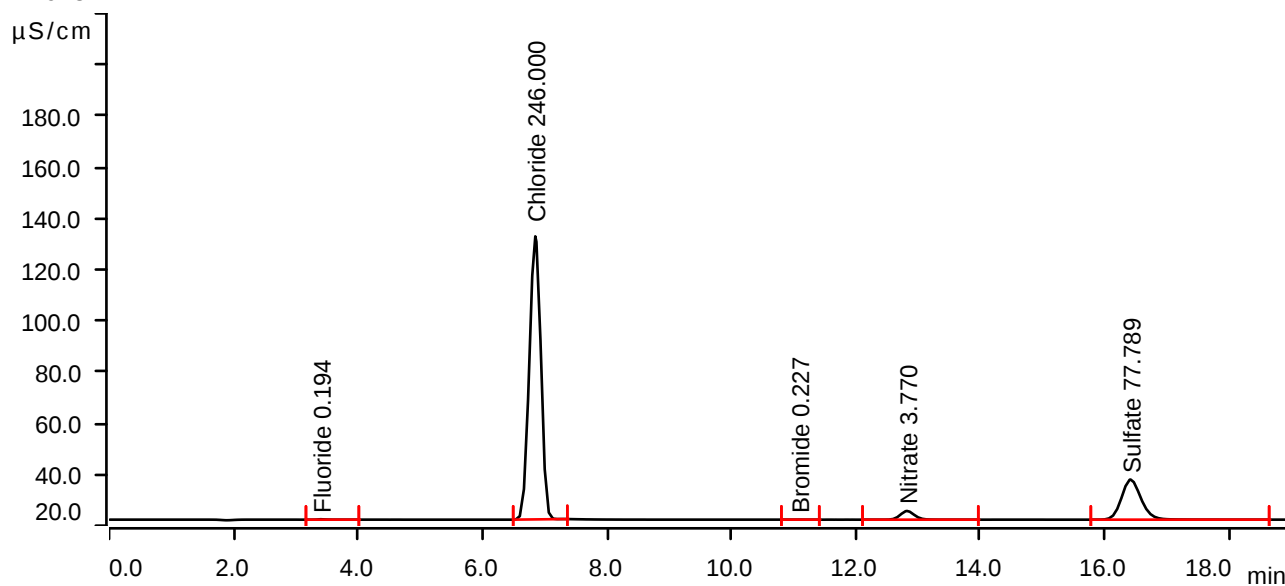
Sample data

Ident Q2344-03
Sample type Sample
Determination start 2025-06-17 17:47:17 UTC-4
Method IC1-052225
Operator

Anions

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

Anions



Peak number	Retention time min	Area (µS/cm) x min	Height µS/cm	Concentration ppm	Component name
1	3.405	0.0243	0.168	0.194	Fluoride
2	6.850	23.7266	110.520	246.000	Chloride
3	11.092	0.0033	0.014	0.227	Bromide
4	12.823	0.8904	3.386	3.770	Nitrate
5	16.415	5.7050	15.680	77.789	Sulfate

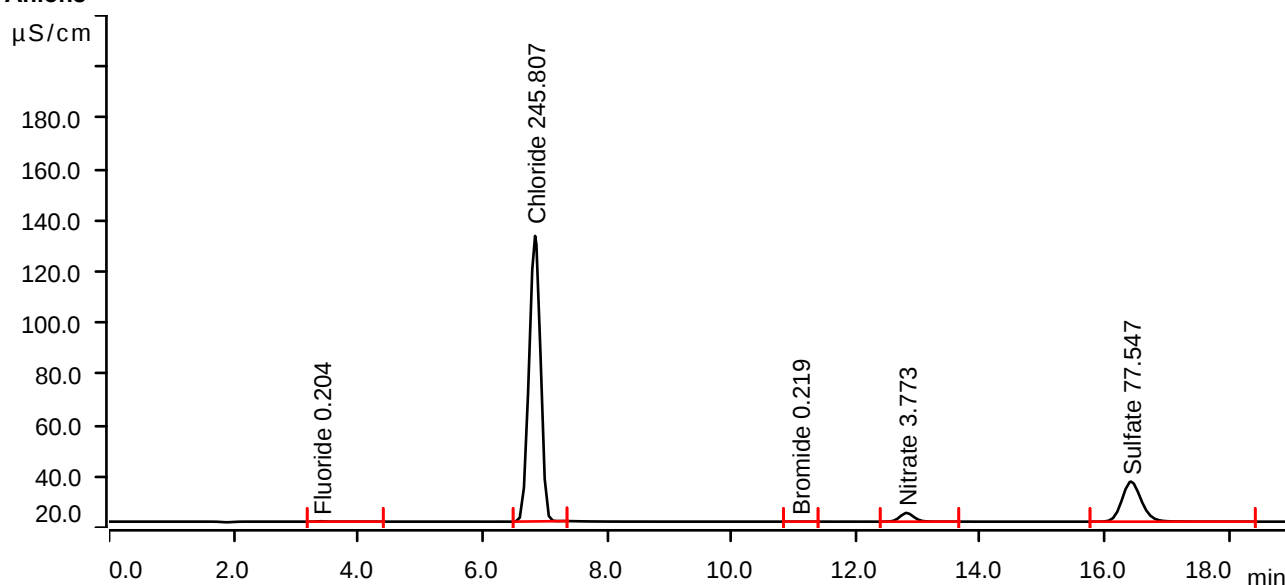
Sample data

Ident Q2344-05
Sample type Sample
Determination start 2025-06-17 18:08:52 UTC-4
Method IC1-052225
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 12.61 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	0.0256	0.167	0.204	Fluoride
2	6.847	23.7080	111.486	245.807	Chloride
3	11.103	0.0030	0.013	0.219	Bromide
4	12.815	0.8911	3.403	3.773	Nitrate
5	16.422	5.6871	15.659	77.547	Sulfate

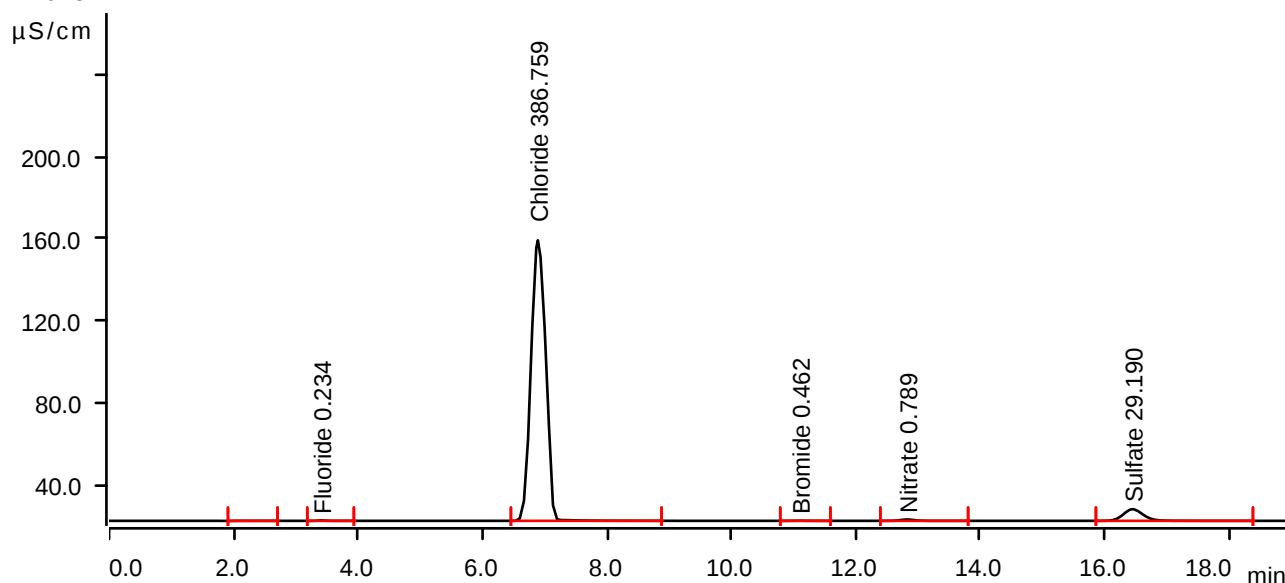
Sample data

Ident Q2344-07
Sample type Sample
Determination start 2025-06-17 18:30:27 UTC-4
Method IC1-052225
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 12.44 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	2.132	0.0200	0.057	invalid	
2	3.410	0.0298	0.217	0.234	Fluoride
3	6.892	37.3053	136.930	386.759	Chloride
4	11.102	0.0133	0.057	0.462	Bromide
5	12.825	0.1777	0.668	0.789	Nitrate
6	16.448	2.1218	5.712	29.190	Sulfate

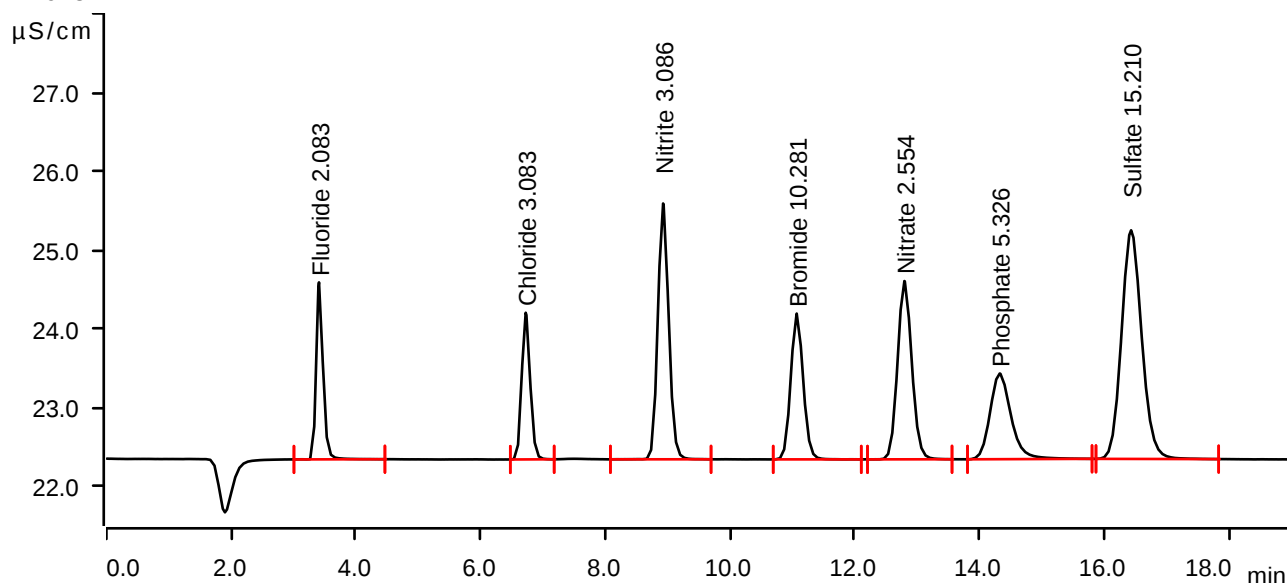
Sample data

Ident CCV
Sample type Check standard 1
Determination start 2025-06-17 18:52:01 UTC-4
Method IC1-052225
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 12.50 MPa
Maximum pressure monitored yes
Temperature ---- °C

Anions



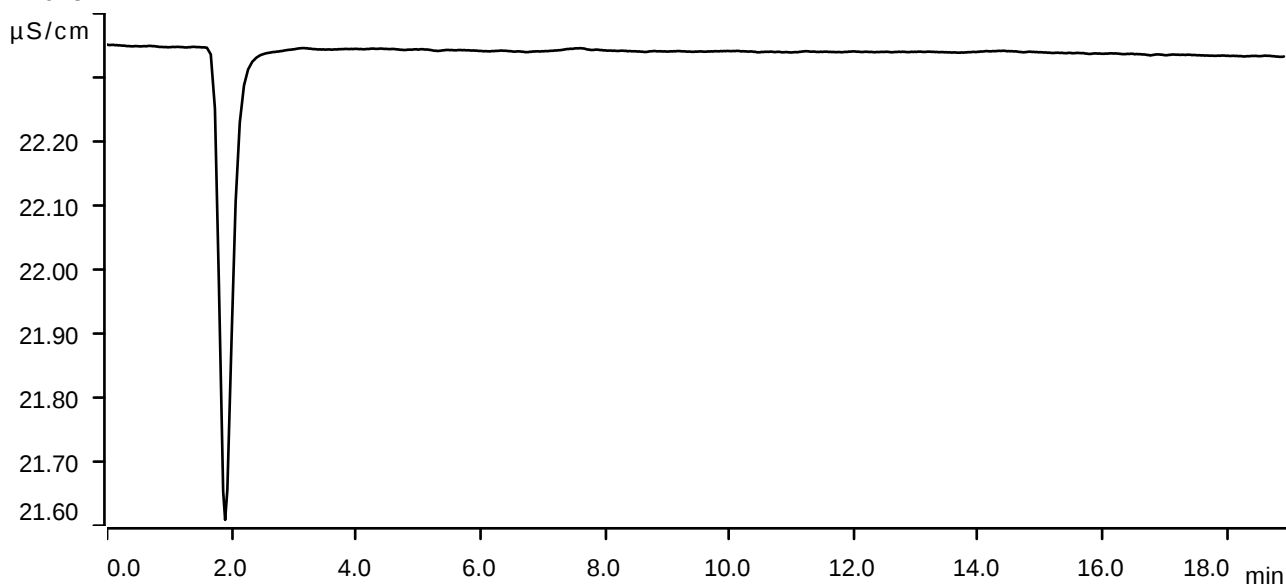
Peak number	Retention time min	Area (µS/cm) x min	Height µS/cm	Concentration ppm	Component name
1	3.410	0.2877	2.246	2.083	Fluoride
2	6.723	0.2931	1.861	3.083	Chloride
3	8.927	0.6574	3.246	3.086	Nitrite
4	11.068	0.4288	1.850	10.281	Bromide
5	12.795	0.5997	2.262	2.554	Nitrate
6	14.323	0.4240	1.088	5.326	Phosphate
7	16.430	1.0911	2.902	15.210	Sulfate

Sample data

Ident CCB
Sample type Sample
Determination start 2025-06-17 19:13:31 UTC-4
Method IC1-052225
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 12.44 MPa
Maximum pressure monitored yes
Temperature ---- °C

Anions

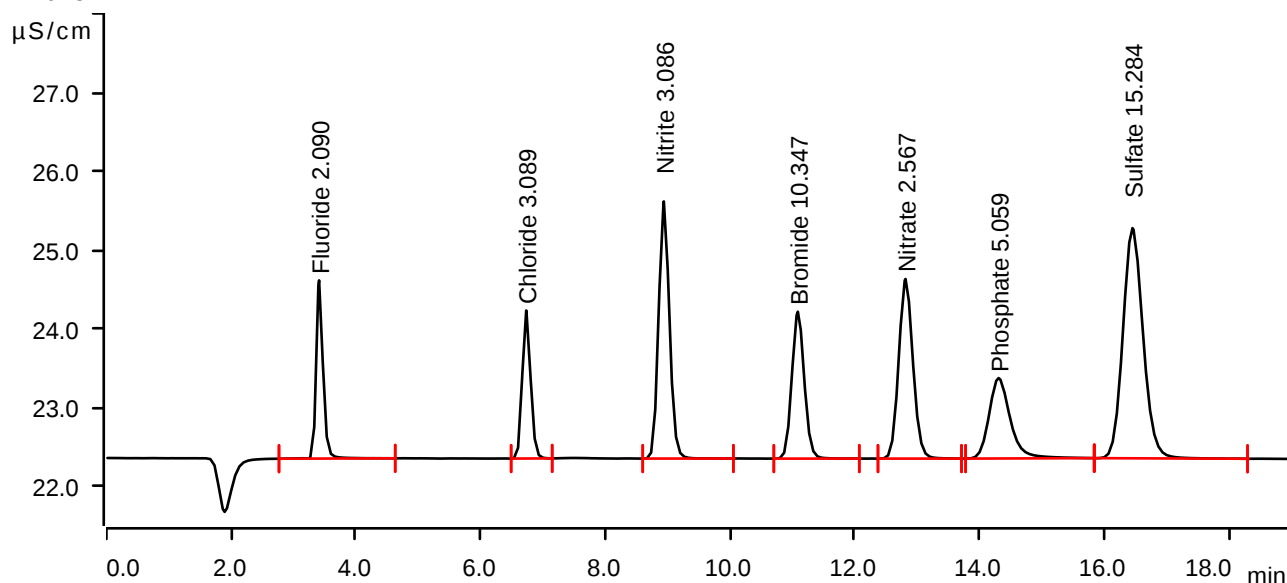
Sample data

Ident CCV
Sample type Check standard 1
Determination start 2025-06-18 10:32:26 UTC-4
Method IC1-052225
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 12.50 MPa
Maximum pressure monitored yes
Temperature ---- °C

Anions



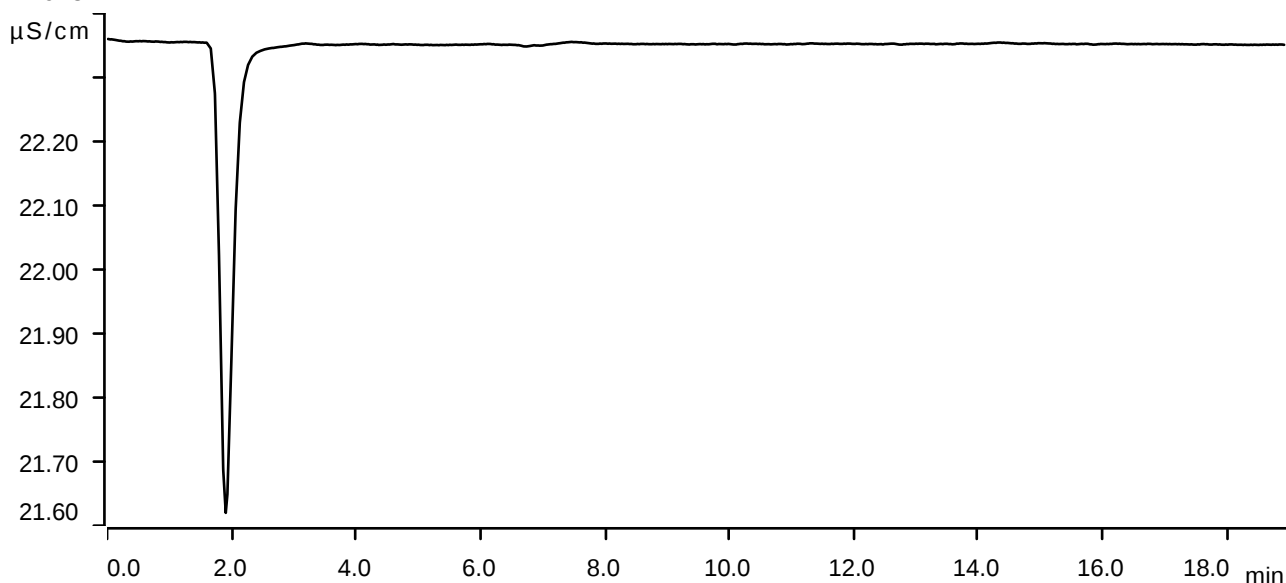
Peak number	Retention time min	Area (µS/cm) x min	Height µS/cm	Concentration ppm	Component name
1	3.412	0.2888	2.261	2.090	Fluoride
2	6.732	0.2936	1.878	3.089	Chloride
3	8.938	0.6573	3.263	3.086	Nitrite
4	11.087	0.4316	1.864	10.347	Bromide
5	12.813	0.6026	2.279	2.567	Nitrate
6	14.305	0.4026	1.021	5.059	Phosphate
7	16.452	1.0965	2.921	15.284	Sulfate

Sample data

Ident CCB
Sample type Sample
Determination start 2025-06-18 10:53:56 UTC-4
Method IC1-052225
Operator

Anions

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

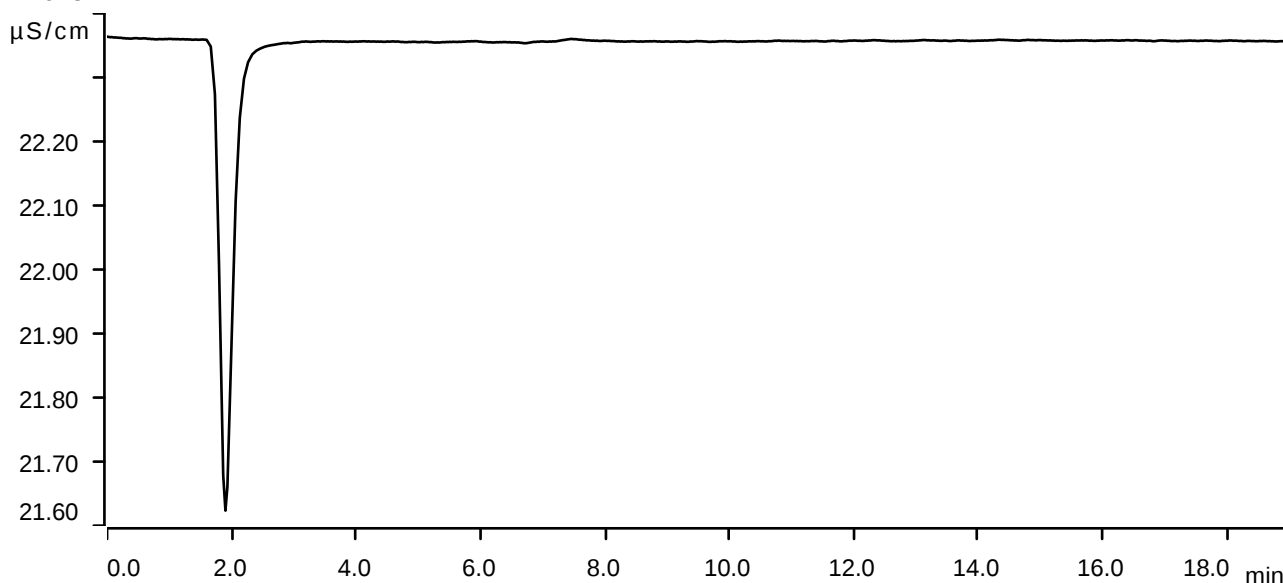
Anions

Sample data

Ident LB136191BLW2
Sample type Sample
Determination start 2025-06-18 11:15:27 UTC-4
Method IC1-052225
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 12.44 MPa
Maximum pressure monitored yes
Temperature ---- °C

Anions

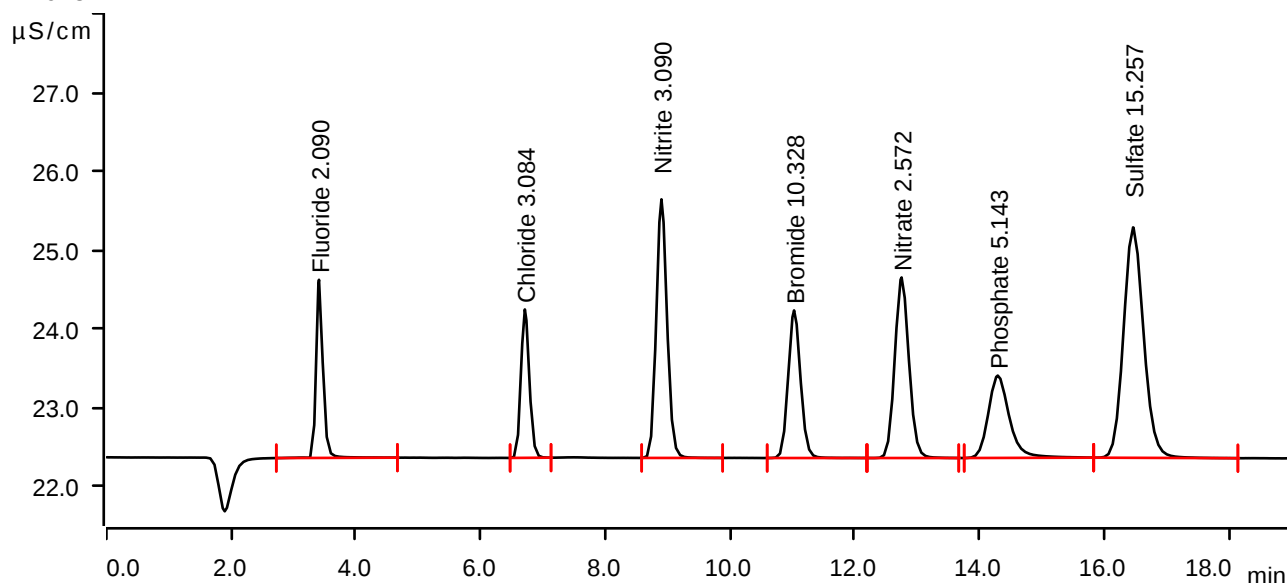
Sample data

Ident LB136191BSW2
Sample type Check standard 1
Determination start 2025-06-18 11:36:58 UTC-4
Method IC1-052225
Operator

Anions

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

Anions



Peak number	Retention time min	Area (µS/cm) x min	Height µS/cm	Concentration ppm	Component name
1	3.410	0.2888	2.260	2.090	Fluoride
2	6.710	0.2932	1.883	3.084	Chloride
3	8.900	0.6583	3.281	3.090	Nitrite
4	11.027	0.4308	1.873	10.328	Bromide
5	12.750	0.6040	2.291	2.572	Nitrate
6	14.292	0.4093	1.045	5.143	Phosphate
7	16.462	1.0946	2.924	15.257	Sulfate

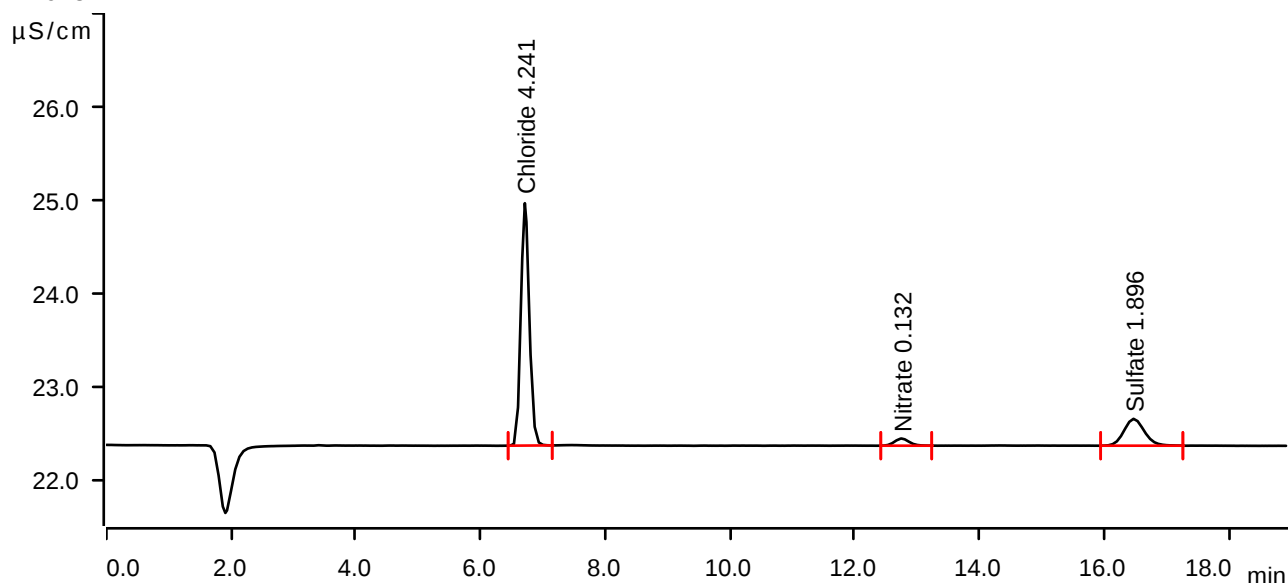
Sample data

Ident Q2344-01DLX20
Sample type Sample
Determination start 2025-06-18 11:58:31 UTC-4
Method IC1-052225
Operator

Anions

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

Anions



Peak number	Retention time min	Area (µS/cm) x min	Height µS/cm	Concentration ppm	Component name
1	6.710	0.4048	2.602	4.241	Chloride
2	12.748	0.0206	0.077	0.132	Nitrate
3	16.470	0.1094	0.288	1.896	Sulfate

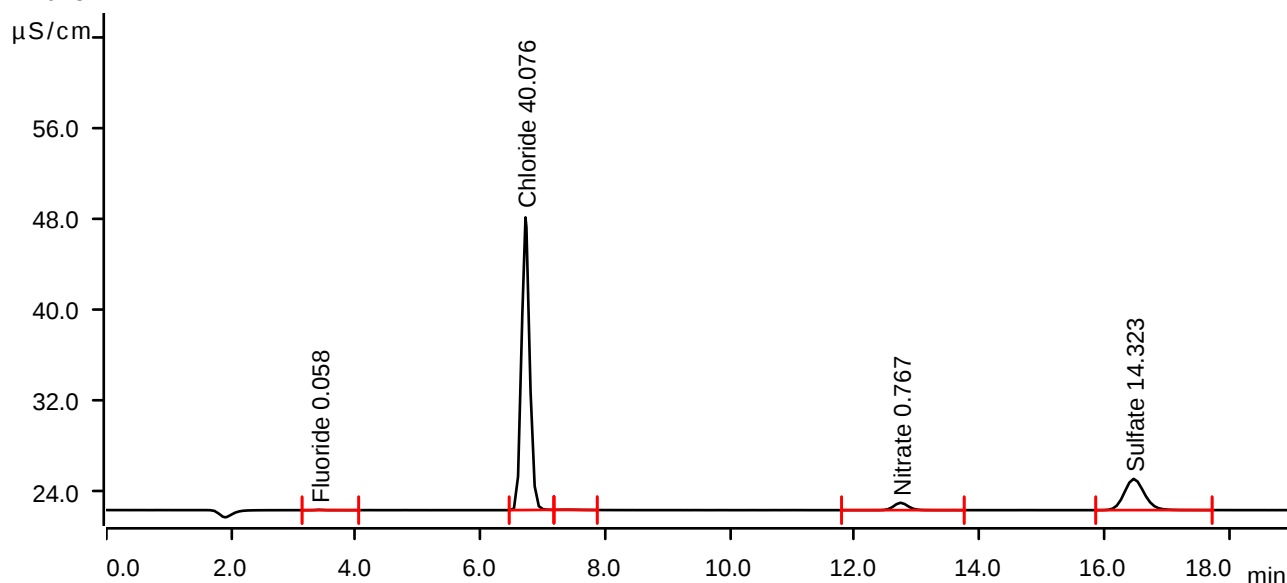
Sample data

Ident Q2344-03DLX5
Sample type Sample
Determination start 2025-06-18 12:20:04 UTC-4
Method IC1-052225
Operator

Anions

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

Anions



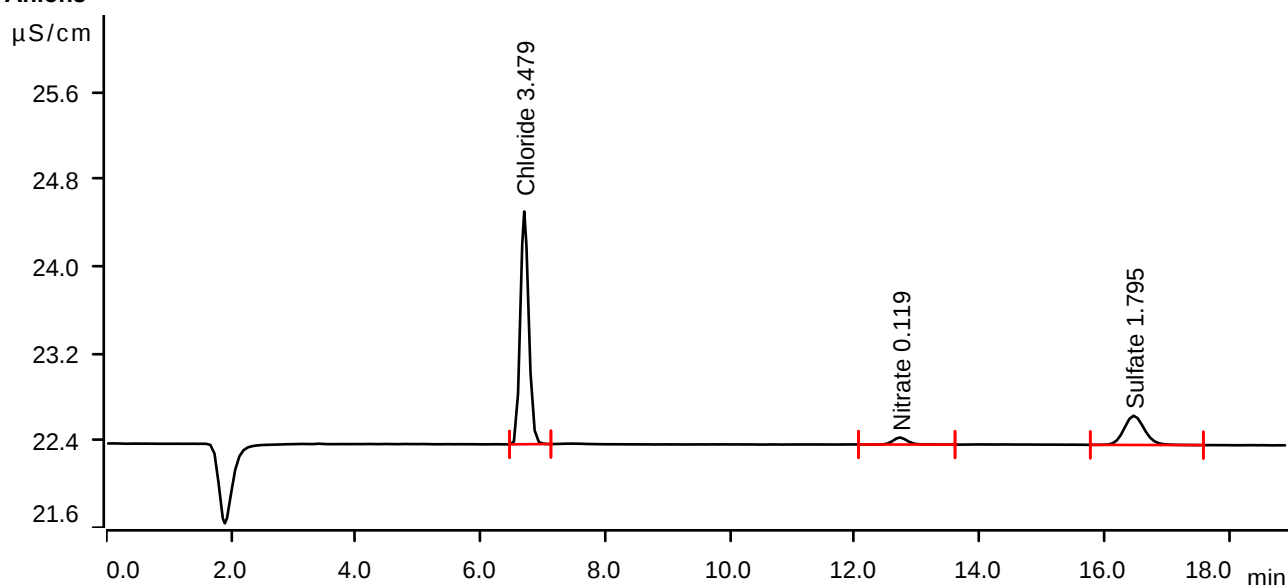
Peak number	Retention time min	Area (µS/cm) x min	Height µS/cm	Concentration ppm	Component name
1	3.410	0.0053	0.034	0.058	Fluoride
2	6.720	3.8617	25.706	40.076	Chloride
3	7.383	0.0055	0.016	invalid	
4	12.735	0.1725	0.648	0.767	Nitrate
5	16.473	1.0257	2.737	14.323	Sulfate

Sample data

Ident Q2344-03DL2X50
Sample type Sample
Determination start 2025-06-18 12:41:37 UTC-4
Method IC1-052225
Operator

Anions

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

Anions

Peak number	Retention time min	Area (µS/cm) x min	Height µS/cm	Concentration ppm	Component name
1	6.700	0.3313	2.135	3.479	Chloride
2	12.725	0.0176	0.064	0.119	Nitrate
3	16.470	0.1020	0.268	1.795	Sulfate

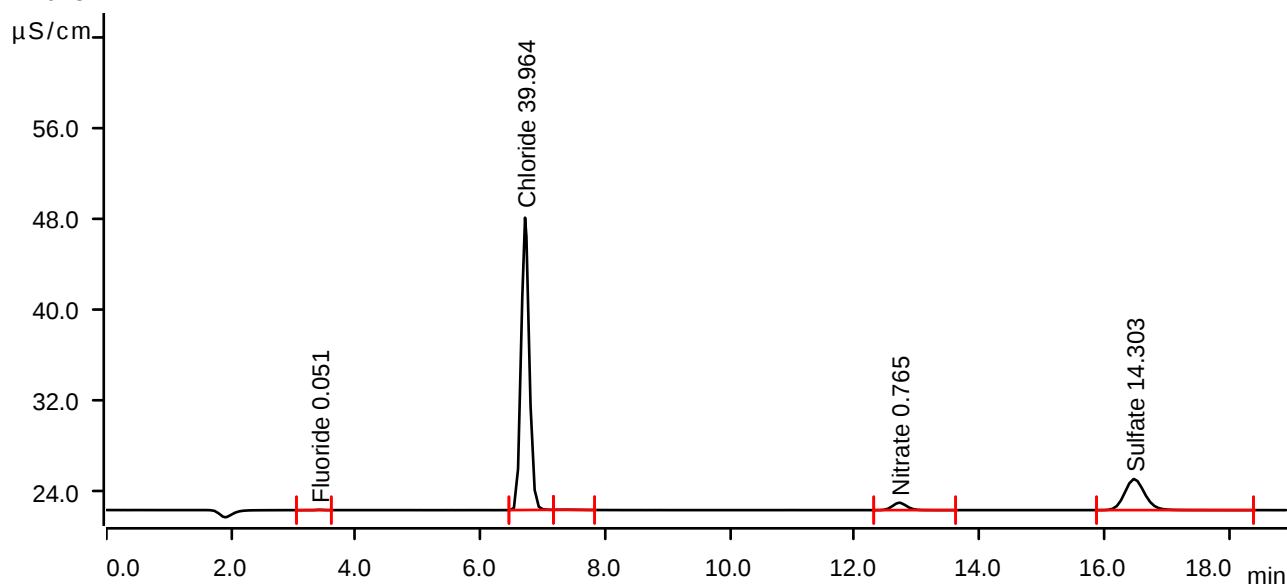
Sample data

Ident Q2344-05DLX5
Sample type Sample
Determination start 2025-06-18 13:03:11 UTC-4
Method IC1-052225
Operator

Anions

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

Anions



Peak number	Retention time min	Area (µS/cm) x min	Height µS/cm	Concentration ppm	Component name
1	3.413	0.0043	0.032	0.051	Fluoride
2	6.713	3.8509	25.679	39.964	Chloride
3	7.353	0.0053	0.015	invalid	
4	12.713	0.1720	0.650	0.765	Nitrate
5	16.478	1.0242	2.730	14.303	Sulfate

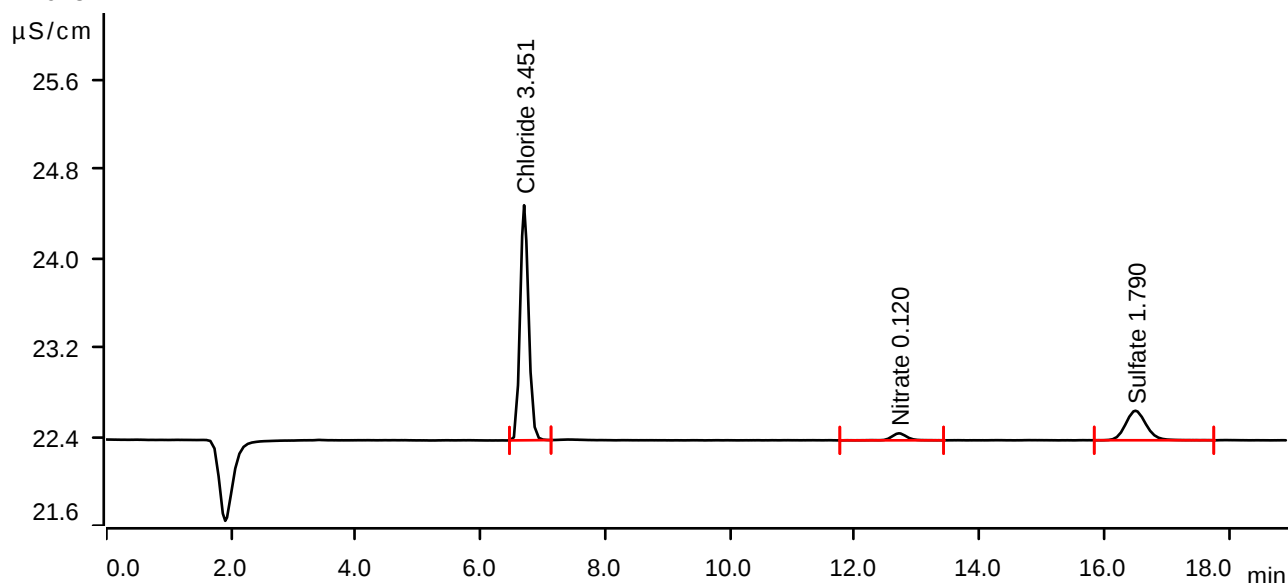
Sample data

Ident Q2344-05DL2X50
Sample type Sample
Determination start 2025-06-18 13:24:47 UTC-4
Method IC1-052225
Operator

Anions

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

Anions



Peak number	Retention time min	Area (µS/cm) x min	Height µS/cm	Concentration ppm	Component name
1	6.698	0.3285	2.111	3.451	Chloride
2	12.707	0.0178	0.063	0.120	Nitrate
3	16.500	0.1016	0.265	1.790	Sulfate

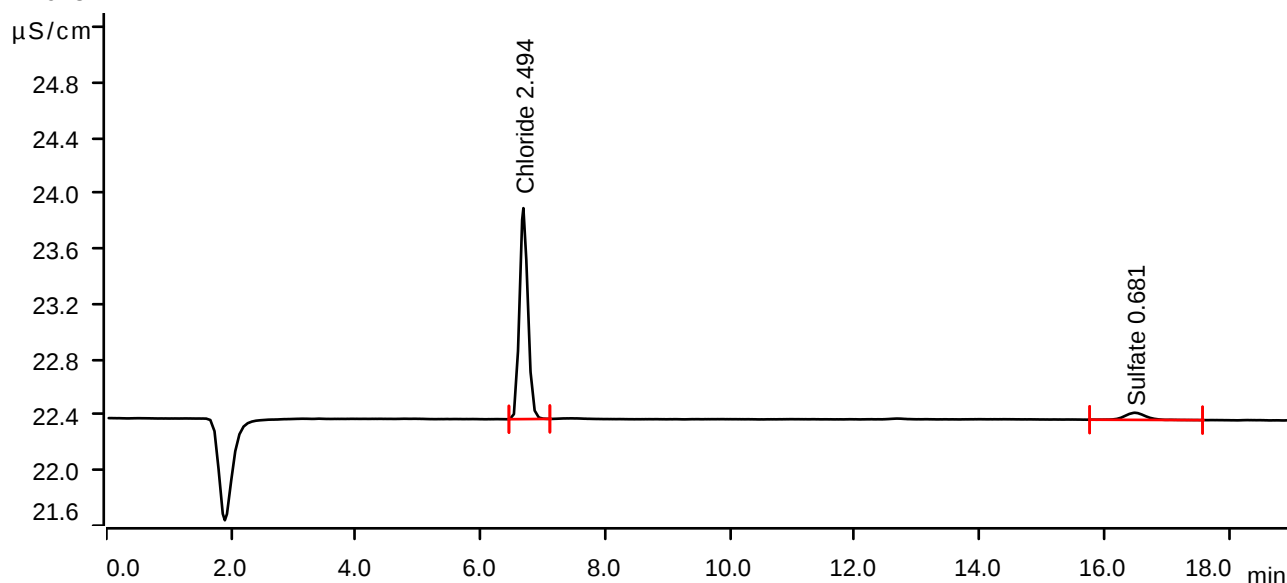
Sample data

Ident Q2344-07DLX100
Sample type Sample
Determination start 2025-06-18 13:46:21 UTC-4
Method IC1-052225
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



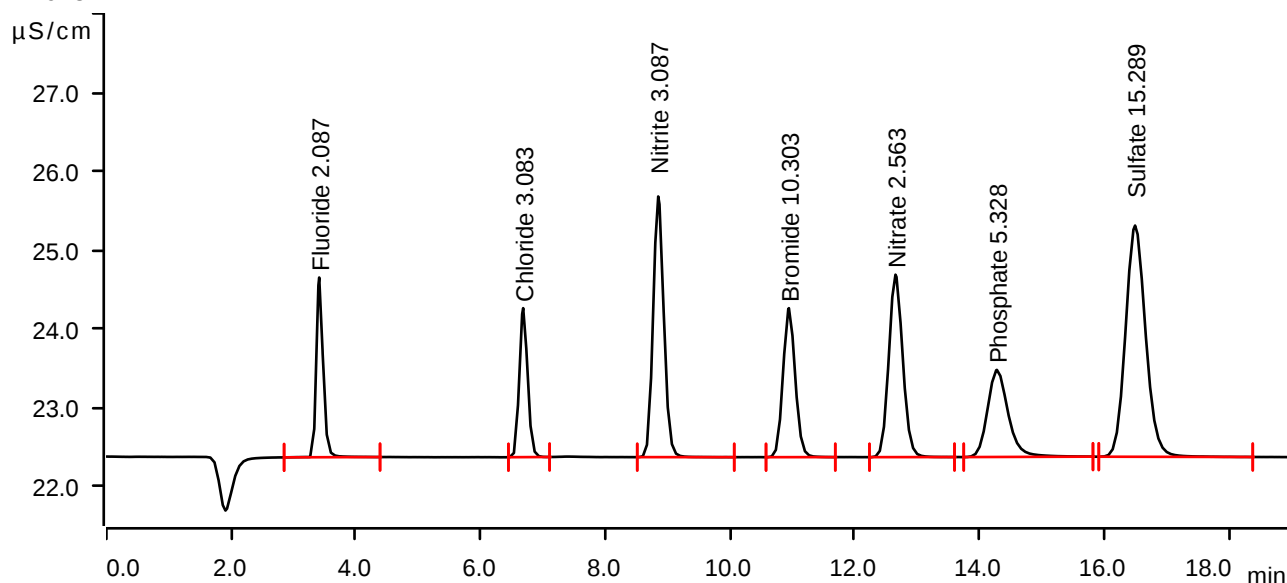
Peak number	Retention time min	Area (µS/cm) x min	Height µS/cm	Concentration ppm	Component name
1	6.687	0.2363	1.524	2.494	Chloride
2	16.490	0.0198	0.051	0.681	Sulfate

Sample data

Ident CCV
 Sample type Check standard 1
 Determination start 2025-06-18 14:07:55 UTC-4
 Method IC1-052225
 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

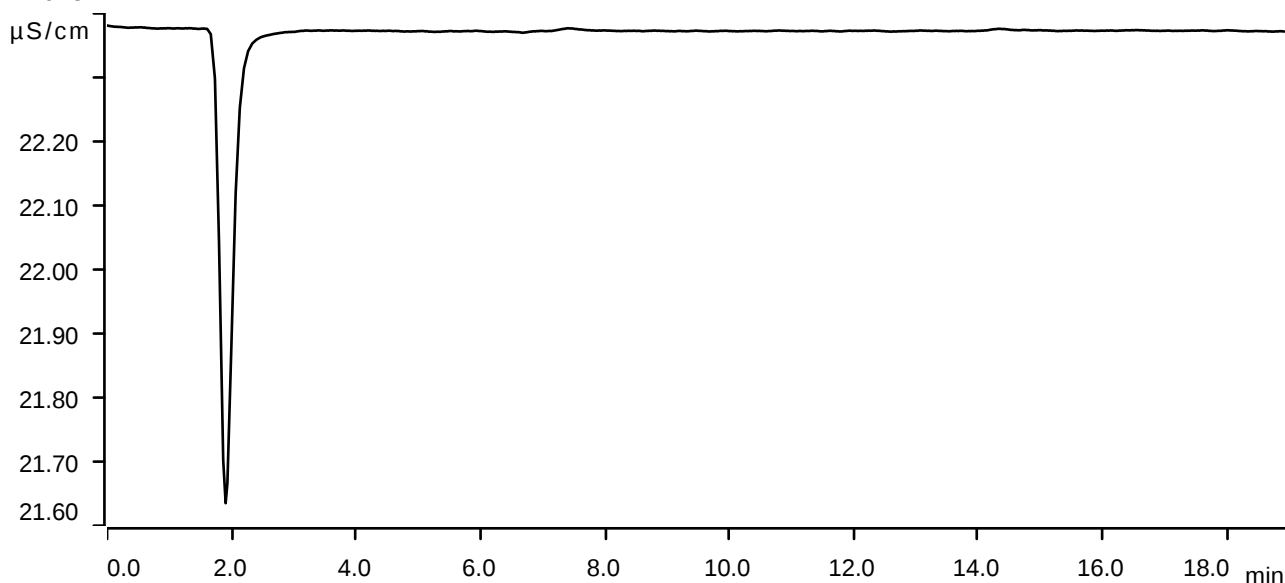
Peak number	Retention time min	Area (µS/cm) x min	Height µS/cm	Concentration ppm	Component name
1	3.413	0.2883	2.280	2.087	Fluoride
2	6.683	0.2931	1.890	3.083	Chloride
3	8.848	0.6577	3.308	3.087	Nitrite
4	10.943	0.4297	1.891	10.303	Bromide
5	12.652	0.6018	2.315	2.563	Nitrate
6	14.278	0.4242	1.105	5.328	Phosphate
7	16.493	1.0969	2.934	15.289	Sulfate

Sample data

Ident CCB
Sample type Sample
Determination start 2025-06-18 14:29:25 UTC-4
Method IC1-052225
Operator

Anions

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

Anions

TOTAL SUSPENDED SOLIDS - SM2540D

TEMP1 IN: 103 °C 06/18/2025 12:00 **TEMP1 OUT:** 103 °C 06/18/2025 13:00
TEMP2 IN: 104 °C 06/18/2025 13:30 **TEMP2 OUT:** 103 °C 06/18/2025 14:30
TEMP3 IN: 104 °C 06/18/2025 18:00 **TEMP3 OUT:** 103 °C 06/18/2025 19:30
TEMP4 IN: 104 °C 06/18/2025 20:00 **TEMP4 OUT:** 103 °C 06/18/2025 20:40

SUPERVISOR: Iwona

ANALYST: jignesh

Date: 06/18/2025

Run Number: LB136202

BalanceID: WC SC-6

OvenID: WC OVEN-1

FilterID: 17416528

ThermometerID: WET OVEN#1

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	LB136202BL	LB136202BL	1.5893	1.5893	100	1.5894	1.5894	1.5894	0.0001	1
2	LB136202BS	LB136202BS	1.4733	1.4733	100	1.5266	1.5266	1.5266	0.0533	533
3	Q2316-02	RW8-SP303-20250612	1.4984	1.4984	700	1.4987	1.4987	1.4987	0.0003	0.4
4	Q2344-01	MW-1	1.3988	1.3988	2000	1.3990	1.3990	1.3990	0.0002	0.1
5	Q2344-03	MW-3	1.4107	1.4107	2000	1.4112	1.4112	1.4112	0.0005	0.3
6	Q2344-05	MW-4	1.4901	1.4901	2000	1.4904	1.4904	1.4904	0.0003	0.2
7	Q2344-07	MW-2	1.4124	1.4124	1000	1.4240	1.4240	1.4240	0.0116	11.6
8	Q2344-07DUP	MW-2DUP	1.4260	1.4260	1000	1.4381	1.4381	1.4381	0.0121	12.1
9	Q2348-01	001-WILLETTS-PT-BLVD (MAY)	1.4884	1.4884	100	1.5147	1.5147	1.5147	0.0263	263
10	Q2348-02	002-35TH-AVE (MAY)	1.4906	1.4906	200	1.5202	1.5202	1.5202	0.0296	148
11	Q2360-02	COMP	1.4812	1.4812	200	1.5604	1.5604	1.5604	0.0792	396

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)

$$\text{Weight (g)} = C - B$$

$$\text{Result mg/L} = \frac{D}{A} * 1000 * 1000$$

WORKLIST(Hardcopy Internal Chain)

136202

WorkList Name : TSS Q2344

WorkList ID : 190260

Department : Wet-Chemistry

Date : 06-18-2025 10:18:00

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q2316-02	C RW8-SP303-20250612	Water	TSS	Cool 4 deg C	TETR06	D41	06/12/2025	SM2540 D
Q2344-01	F, E MW-1	Water	TSS	Cool 4 deg C	LOCK01	D31	06/16/2025	SM2540 D
Q2344-03	F, E MW-3	Water	TSS	Cool 4 deg C	LOCK01	D31	06/16/2025	SM2540 D
Q2344-05	F, E MW-4	Water	TSS	Cool 4 deg C	LOCK01	D31	06/16/2025	SM2540 D
Q2344-07	F, E MW-2	Water	TSS	Cool 4 deg C	LOCK01	D31	06/16/2025	SM2540 D
Q2348-01	B 001-WILLETTS-PT-BLVD(MAY)	Water	TSS	Cool 4 deg C	TULL01	D41	06/17/2025	SM2540 D
Q2348-02	B 002-35TH-AVE(MAY)	Water	TSS	Cool 4 deg C	TULL01	D41	06/17/2025	SM2540 D
Q2360-02	A-COMP	Water	TSS	Cool 4 deg C	ARAM01	D41	06/18/2025	SM2540 D

Date/Time

Raw Sample Received by:

Raw Sample Relinquished by:

06/18/25 16:45
JDCSM

Date/Time

Raw Sample Received by:

Raw Sample Relinquished by:

06/18/25 19:30
JDCSM
JDCSM

TitriSoft Report

Ident	Amount	DateTime	Alkalinity	Final pH (sample)	Initial pH (sample)	slope	offset
LB136205BLW	100	19/06/2025 12:15	0.00	3.98	3.99	101.4	7.02
LB136205BSW	100	19/06/2025 12:18	47.52	4.38	9.47	101.4	7.02
Q2334-01	50	19/06/2025 12:24	122.42	4.31	7.07	101.4	7.02
Q2334-01DUP	50	19/06/2025 12:29	120.66	4.35	7.08	101.4	7.02
Q2334-02	50	19/06/2025 12:34	103.64	4.30	7.09	101.4	7.02
Q2334-03	50	19/06/2025 12:38	84.86	4.33	6.77	101.4	7.02
Q2344-01	50	19/06/2025 12:43	63.60	4.31	6.35	101.4	7.02
Q2344-03	50	19/06/2025 12:49	307.48	4.40	6.96	101.4	7.02
Q2344-05	50	19/06/2025 12:55	306.42	4.37	6.92	101.4	7.02
Q2344-07	50	19/06/2025 13:02	454.48	4.32	6.98	101.4	7.02

06/19/2025

6/19/25
12

LB136

Test results

Aquakem 7.2AQ1

Page: 1

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

Reviewed by : RM Instrument ID : Konelab

6/24/2025 11:24

Test: Ammonia-N

Sample Id	Result	Dil. 1 +	Response	Errors
ICV1	0.970	0.0	0.245	
ICB1	0.014	0.0	0.048	
CCV1	0.969	0.0	0.245	
CCB1	0.008	0.0	0.046	
RL CHECK	0.095	0.0	0.064	95% (50-150)
PB168578BL	-0.002	0.0	0.044	06/24/2025
PB168578BS	0.951	0.0	0.241	RM
Q2344-01	0.008	0.0	0.046	
Q2344-03	0.531	0.0	0.154	
Q2344-05	0.553	0.0	0.159	
Q2344-07	7.236	0.0	1.537	Test limit high
Q2385-01	0.029	0.0	0.051	
Q2385-01DUP	0.025	0.0	0.050	
Q2385-01MS	0.948	0.0	0.240	
CCV2	1.001	0.0	0.251	
CCB2	0.003	0.0	0.045	
Q2385-01MSD	0.957	0.0	0.242	
CCV3	0.907	0.0	0.232	
CCB3	-0.003	0.0	0.044	
Q2344-07DLX5	1.402	0.0	0.334	
CCV4	0.990	0.0	0.249	
CCB4	-0.003	0.0	0.044	
N	22			
Mean	0.799			
SD	1.5160			
CV%	189.64			

Aquakem v. 7.2AQ1

Results from time period:

Tue Jun 24 09:02:56 2025

Tue Jun 24 11:06:30 2025

Sample Id	Sam/Ctr/c	Test short r	Test type	Result	Result unit	Result date and time	Stat
0.0PPM	A	Ammonia-1	P	0.013	mg/l	6/24/2025 9:02:56	
0.1PPM	A	Ammonia-1	P	0.1196	mg/l	6/24/2025 9:02:57	
0.2PPM	A	Ammonia-1	P	0.196	mg/l	6/24/2025 9:02:58	
0.4PPM	A	Ammonia-1	P	0.397	mg/l	6/24/2025 9:02:59	
1.0PPM	A	Ammonia-1	P	0.9391	mg/l	6/24/2025 9:03:00	
1.3PPM	A	Ammonia-1	P	1.3482	mg/l	6/24/2025 9:03:01	
2.0PPM	A	Ammonia-1	P	2.0206	mg/l	6/24/2025 9:03:02	
ICV1	S	Ammonia-1	P	0.9701	mg/l	6/24/2025 9:40:05	
ICB1	S	Ammonia-1	P	0.0141	mg/l	6/24/2025 9:40:08	
CCV1	S	Ammonia-1	P	0.9691	mg/l	6/24/2025 9:40:09	
CCB1	S	Ammonia-1	P	0.0075	mg/l	6/24/2025 9:40:11	
RL CHECK	S	Ammonia-1	P	0.095	mg/l	6/24/2025 9:40:16	
PB168578BL	S	Ammonia-1	P	-0.0023	mg/l	6/24/2025 9:50:49	
PB168578BS	S	Ammonia-1	P	0.9509	mg/l	6/24/2025 9:50:51	
Q2344-01	S	Ammonia-1	P	0.0079	mg/l	6/24/2025 9:50:54	
Q2344-03	S	Ammonia-1	P	0.5306	mg/l	6/24/2025 9:50:59	
Q2344-05	S	Ammonia-1	P	0.5526	mg/l	6/24/2025 9:51:00	
Q2344-07	S	Ammonia-1	P	7.236	mg/l	6/24/2025 10:01:31	
Q2385-01	S	Ammonia-1	P	0.0291	mg/l	6/24/2025 10:01:36	
Q2385-01DUP	S	Ammonia-1	P	0.0255	mg/l	6/24/2025 10:01:37	
Q2385-01MS	S	Ammonia-1	P	0.9479	mg/l	6/24/2025 10:01:39	
CCV2	S	Ammonia-1	P	1.0014	mg/l	6/24/2025 10:07:00	
CCB2	S	Ammonia-1	P	0.0025	mg/l	6/24/2025 10:07:02	
Q2385-01MSD	S	Ammonia-1	P	0.9569	mg/l	6/24/2025 10:44:56	
CCV3	S	Ammonia-1	P	0.9065	mg/l	6/24/2025 10:45:00	
CCB3	S	Ammonia-1	P	-0.0028	mg/l	6/24/2025 10:45:01	
Q2344-07DLX5	S	Ammonia-1	P	1.4017	mg/l	6/24/2025 10:45:05	
CCV4	S	Ammonia-1	P	0.9903	mg/l	6/24/2025 10:50:24	
CCB4	S	Ammonia-1	P	-0.0026	mg/l	6/24/2025 10:50:25	

=====

Calibration results Aquakem 7.2AQ1 Page: 6/24/2025 9:08

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

Reviewed by : RM Instrument ID : Konelab

6/24/2025 9:08

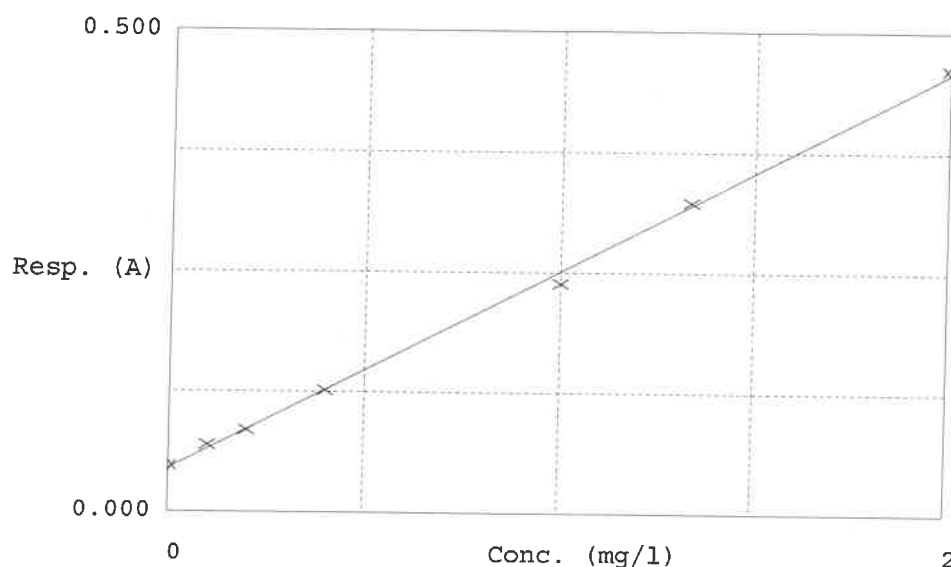
Test Ammonia-N

Accepted 6/24/2025 9:08

Factor 4.85
Bias 0.045

Coeff. of det. 0.998538

Errors



	Calibrator	Response	Calc. con.	Conc.	Errors
1	0.00PPM	0.047	0.0130	0.0000	
2	NH3-2PPM	0.069	0.1196	0.1000	19.6
3	NH3-2PPM	0.085	0.1960	0.2000	-2.0
4	NH3-2PPM	0.127	0.3970	0.4000	-0.8
5	NH3-2PPM	0.238	0.9391	1.0000	-6.1
6	NH3-2PPM	0.323	1.3482	1.3333	3.7
7	NH3-2PPM	0.461	2.0206	2.0000	1.0

06/24/2025
RM

LB136244

Test results

Aquakem 7.2AQ1

Page: 1

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

Reviewed by : Rm Instrument ID : Konelab

6/24/2025 13:12

Test: TKN-NH3

Sample Id	Result	Dil. 1 +	Response	Errors
ICV1	4.895	0.0	1.072	
ICB1	0.067	0.0	0.049	
CCV1	4.741	0.0	1.039	
CCB1	0.057	0.0	0.046	
06/24/2025 RM RL CHECK	0.472	0.0	0.134	
PB168588BL	0.066	0.0	0.048	
PB168588BS	4.861	0.0	1.065	
Q2344-01	0.360	0.0	0.111	
Q2344-01DUP	0.361	0.0	0.111	
Q2344-01MS	4.980	0.0	1.090	
Q2344-01MSD	4.793	0.0	1.050	
Q2344-03	0.944	0.0	0.234	
Q2344-05	0.982	0.0	0.242	
Q2344-07	7.701	0.0	1.667	
CCV2	4.768	0.0	1.045	
CCB2	0.057	0.0	0.046	
Q2385-01	0.363	0.0	0.111	
CCV3	4.895	0.0	1.072	
CCB3	0.054	0.0	0.046	

94% (50-150)

06/24/2025
RM

N 19
Mean 2.390
SD 2.5579
CV% 107.01

Aquakem v. 7.2AQ1

Results from time period:

Tue Jun 24 11:51:59 2025

Tue Jun 24 13:06:11 2025

Sample Id	Sam/Ctr/c	Test short r	Test type	Result	Result unit	Result date and time	Stat
0.0PPM	A	TKN-NH3	P	0.0887	mg/l	6/24/2025 11:51:59	
0.5PPM	A	TKN-NH3	P	0.5307	mg/l	6/24/2025 11:52:00	
1.0PPM	A	TKN-NH3	P	0.9987	mg/l	6/24/2025 11:52:01	
2.5PPM	A	TKN-NH3	P	2.3697	mg/l	6/24/2025 11:52:02	
5.0PPM	A	TKN-NH3	P	5.0141	mg/l	6/24/2025 11:52:03	
6.7PPM	A	TKN-NH3	P	6.5886	mg/l	6/24/2025 11:52:04	
10.0PPM	A	TKN-NH3	P	10.0762	mg/l	6/24/2025 11:52:05	
ICV1	S	TKN-NH3	P	4.8955	mg/l	6/24/2025 12:36:15	
ICB1	S	TKN-NH3	P	0.0674	mg/l	6/24/2025 12:36:17	
CCV1	S	TKN-NH3	P	4.7407	mg/l	6/24/2025 12:36:19	
CCB1	S	TKN-NH3	P	0.0574	mg/l	6/24/2025 12:36:22	
RL CHECK	S	TKN-NH3	P	0.4722	mg/l	6/24/2025 12:36:23	
PB168588BL	S	TKN-NH3	P	0.0655	mg/l	6/24/2025 12:46:59	
PB168588BS	S	TKN-NH3	P	4.861	mg/l	6/24/2025 12:47:01	
Q2344-01	S	TKN-NH3	P	0.3601	mg/l	6/24/2025 12:47:03	
Q2344-01DUP	S	TKN-NH3	P	0.3606	mg/l	6/24/2025 12:47:05	
Q2344-01MS	S	TKN-NH3	P	4.9802	mg/l	6/24/2025 12:47:07	
Q2344-01MSD	S	TKN-NH3	P	4.7931	mg/l	6/24/2025 12:47:08	
Q2344-03	S	TKN-NH3	P	0.944	mg/l	6/24/2025 12:47:09	
Q2344-05	S	TKN-NH3	P	0.9816	mg/l	6/24/2025 12:47:10	
Q2344-07	S	TKN-NH3	P	7.7012	mg/l	6/24/2025 12:57:40	
CCV2	S	TKN-NH3	P	4.7683	mg/l	6/24/2025 12:57:42	
CCB2	S	TKN-NH3	P	0.0565	mg/l	6/24/2025 12:57:44	
Q2385-01	S	TKN-NH3	P	0.3629	mg/l	6/24/2025 12:57:45	
CCV3	S	TKN-NH3	P	4.8951	mg/l	6/24/2025 12:57:48	
CCB3	S	TKN-NH3	P	0.0541	mg/l	6/24/2025 12:57:51	

Calibration results

Aquakem 7.2AQ1

Page: 1

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

6/24/2025 11:56

Reviewed by : RM

Instrument ID : Konelab

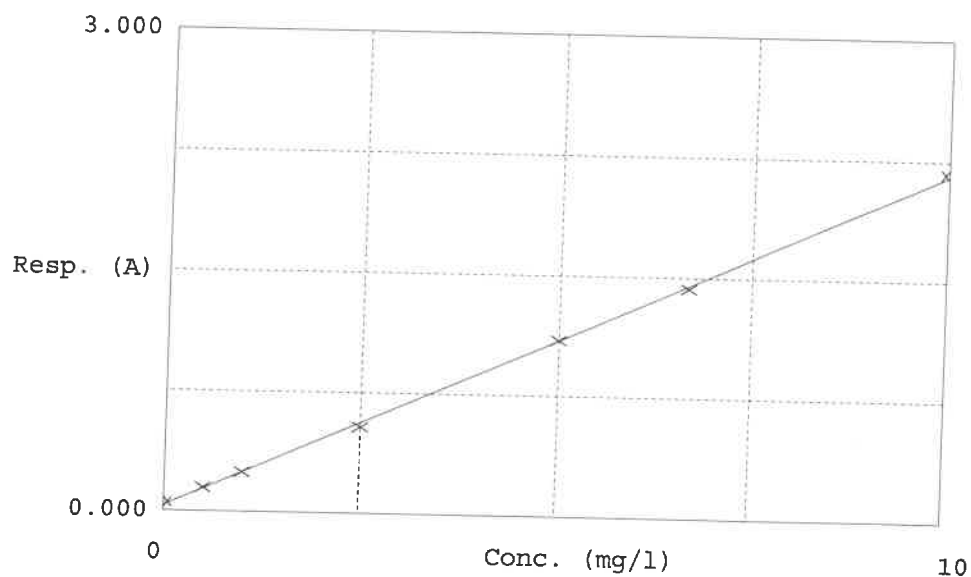
Test TKN-NH3

Accepted 6/24/2025 11:56

Factor 4.717
Bias 0.034

Coeff. of det. 0.999543

Errors



	Calibrator	Response	Calc. con.	Conc.	Errors
1	0.00PPM	0.053	0.0887	0.0000	
2	TKN-10	0.147	0.5307	0.5000	6.1
3	TKN-10	0.246	0.9987	1.0000	-0.1
4	TKN-10	0.537	2.3697	2.5000	-5.2
5	TKN-10	1.097	5.0141	5.0000	0.3
6	TKN-10	1.431	6.5886	6.6667	-1.7
7	TKN-10	2.170	10.0762	10.0000	0.8

06/24/2025
RM

SOP ID : MSM4500-NH3 B,G-Ammonia-18

SDG No : N/A

Start Digest Date: 06/23/2025 Time : 08:50 Temp : 150 °C

Matrix : WATER

End Digest Date: 06/23/2025 Time : 09:50 Temp : 158 °C

Pipette ID : WC

I betch
06/23/2025 10:15 150°C
06/23/2025 11:15 160°C

Balance ID : N/A

Hood ID : HOOD#2

Digestion tube ID : M5595

Block Thermometer ID : WC CYANIDE

Block ID : WC-DIST-BLOCK-1

Filter paper ID : N/A

Prep Technician Signature: *RM*

Weigh By : RM

pH Meter ID : N/A

Supervisor Signature: *12*

Standard Name	MLS USED	STD REF. # FROM LOG
LCSW	1.0ML	WP113449
MS/MSD SPIKE SOL.	1.0ML	WP113450
PBW	50.0ML	W3112
RL CHECK	0.1ML	WP113450
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	WP112828
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
06/23/2025 11:30	<i>RM CW</i>	<i>RM CW</i>
	Preparation Group	Analysis Group

Lab Sample ID	Client Sample ID	Initial Vol (ml)	Final Vol (ml)	pH	Sulfide	Oxidizing	Nitrate/ Nitrite	Comment	Prep Pos
PB168578BL	PBW578	50	50	<2	N/A	Negative	N/A	AFTER ADDING 6N NAOH PH IS 9.5	N/A
PB168578BS	LCS578	50	50	<2	N/A	Negative	N/A	AFTER ADDING 6N NAOH PH IS 9.5	N/A
Q2344-01	MW-1	50	50	<2	N/A	Negative	N/A	AFTER ADDING 6N NAOH PH IS 9.5	N/A
Q2344-03	MW-3	50	50	<2	N/A	Negative	N/A	AFTER ADDING 6N NAOH PH IS 9.5	N/A
Q2344-05	MW-4	50	50	<2	N/A	Negative	N/A	AFTER ADDING 6N NAOH PH IS 9.5	N/A
Q2344-07	MW-2	50	50	<2	N/A	Negative	N/A	AFTER ADDING 6N NAOH PH IS 9.5	N/A
Q2385-01	A5311	50	50	<2	N/A	Negative	N/A	AFTER ADDING 6N NAOH PH IS 9.5	N/A
Q2385-01DUP	A5311DUP	50	50	<2	N/A	Negative	N/A	AFTER ADDING 6N NAOH PH IS 9.5	N/A
Q2385-01MS	A5311MS	50	50	<2	N/A	Negative	N/A	AFTER ADDING 6N NAOH PH IS 9.5	N/A
Q2385-01MSD	A5311MSD	50	50	<2	N/A	Negative	N/A	AFTER ADDING 6N NAOH PH IS 9.5	N/A

WORKLIST(Hardcopy Internal Chain)

WorkList Name : ammonia-6*23

WorkList ID : 190312

Department : Distillation

Date : 06-23-2025 08:12:17

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q2344-01	MW-1	Water	Ammonia	Conc H2SO4 to pH < 2	LOCK01	D31	06/16/2025	SM4500-NH3
Q2344-03	MW-3	Water	Ammonia	Conc H2SO4 to pH < 2	LOCK01	D31	06/16/2025	SM4500-NH3
Q2344-05	MW-4	Water	Ammonia	Conc H2SO4 to pH < 2	LOCK01	D31	06/16/2025	SM4500-NH3
Q2344-07	MW-2	Water	Ammonia	Conc H2SO4 to pH < 2	LOCK01	D31	06/16/2025	SM4500-NH3
Q2385-01	A5311	Water	Ammonia	Conc H2SO4 to pH < 2	PSEG03	D51	06/20/2025	SM4500-NH3

Date/Time 06/23/2025 08:15

Raw Sample Received by: RM (wec)

Raw Sample Relinquished by: J2602C1

Date/Time 06/23/2025 10:00

Raw Sample Received by: J2602C1

Raw Sample Relinquished by: RM (wec)

SOP ID : MSM4500-N Org C-TKN-11

SDG No : N/A

Start Digest Date: 06/23/2025 Time : 09:40 Temp : 380 °C

Matrix : WATER

End Digest Date: 06/23/2025 Time : 11:10 Temp : 385 °C

Pipette ID : WC

Start Distillation Date: 06/23/2025 Time : 11:45 Temp : 150 °C

Balance ID : N/A

End Distillation Date: 06/23/2025 Time : 12:45 Temp : 157 °C

Hood ID : HOOD#2&3

Digestion tube ID : M5595

Block Thermometer ID : Therm#2(2179)

Block ID : WC-DIST-BLOCK-1

Filter paper ID : N/A

Prep Technician Signature: RM

Weigh By : N/A

pH Meter ID : N/A

Supervisor Signature: 12

Standard Name	MLS USED	STD REF. # FROM LOG
TKN CAL STD	50.0ML	WP113625
TKN CCV STD	50.0ML	WP113626
TKN ICV STD	50.0ML	WP113627
TKN LCS STD	50.0ML	WP113628
MS/MSD SPIKE SOL.	0.25ML	WP112611

Chemical Used	ML/SAMPLE USED	Lot Number
TKN DIGESTION FLUID	10.0ML	WP113135
TKN DISTILLATION BUFFER	10.0ML	WP112079
H2SO4 0.04N	5.0ML	WP112828
pH Paper 0-14	N/A	W3215
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 WP113626 , 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
06/23/2025 14:35	RM CWC	RM WWC
	Preparation Group	Analysis Group

Lab Sample ID	Client Sample ID	Initial Vol (ml)	Final Vol (ml)	pH	Sulfide	Oxidizing	Nitrate/ Nitrite	Comment	Prep Pos
PB168588BL	PBW588	50	50	<2	N/A	N/A	N/A	PH AFTER ADDING DIST BUFFER>11	N/A
PB168588BS	LCS588	50	50	<2	N/A	N/A	N/A	PH AFTER ADDING DIST BUFFER>11	N/A
Q2344-01DUP	MW-1DUP	50	50	<2	N/A	N/A	N/A	PH AFTER ADDING DIST BUFFER>11	N/A
Q2344-01MS	MW-1MS	50	50	<2	N/A	N/A	N/A	PH AFTER ADDING DIST BUFFER>11	N/A
Q2344-01MSD	MW-1MSD	50	50	<2	N/A	N/A	N/A	PH AFTER ADDING DIST BUFFER>11	N/A
Q2344-01	MW-1	50	50	<2	N/A	N/A	N/A	PH AFTER ADDING DIST BUFFER>11	N/A
Q2344-03	MW-3	50	50	<2	N/A	N/A	N/A	PH AFTER ADDING DIST BUFFER>11	N/A
Q2344-05	MW-4	50	50	<2	N/A	N/A	N/A	PH AFTER ADDING DIST BUFFER>11	N/A
Q2344-07	MW-2	50	50	<2	N/A	N/A	N/A	PH AFTER ADDING DIST BUFFER>11	N/A
Q2385-01	A5311	50	50	<2	N/A	N/A	N/A	PH AFTER ADDING DIST BUFFER>11	N/A

WORKLIST(Hardcopy Internal Chain)

WorkList Name : tkn-6-23

WorkList ID : 190309

Department : Distillation

Date : 06-23-2025 08:11:45

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q2344-01	MW-1	Water	TKN	Conc H2SO4 to pH < 2	LOCK01	D31	06/16/2025	SM4500 N Org
Q2344-03	MW-3	Water	TKN	Conc H2SO4 to pH < 2	LOCK01	D31	06/16/2025	SM4500 N Org
Q2344-05	MW-4	Water	TKN	Conc H2SO4 to pH < 2	LOCK01	D31	06/16/2025	SM4500 N Org
Q2344-07	MW-2	Water	TKN	Conc H2SO4 to pH < 2	LOCK01	D31	06/16/2025	SM4500 N Org
Q2385-01	A5311	Water	TKN	Conc H2SO4 to pH < 2	PSEG03	D51	06/20/2025	SM4500 N Org

Date/Time 06/23/2025 08:15
 Raw Sample Received by: RM Lee
 Raw Sample Relinquished by: RM Lee

Date/Time 06/23/2025 10:20
 Raw Sample Received by: RM Lee
 Raw Sample Relinquished by: RM Lee

Instrument ID: DO METER

Daily Analysis Runlog For Sequence/QC Batch ID # LB136184

Review By	rubina	Review On	6/23/2025 2:04:31 PM
Supervise By	Iwona	Supervise On	6/23/2025 2:06:26 PM
SubDirectory	LB136184	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	WP113565,W3149,WP112832,W3103,W3109,W3105,WP113566,WP113567,WP111323		

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	LB136184BL	LB136184BL	MB	06/18/25 09:25		Iwona	OK
2	LB136184BS	LB136184BS	LCS	06/18/25 09:25		Iwona	OK
3	Q2344-01	MW-1	SAM	06/18/25 09:25		Iwona	OK
4	Q2344-01DUP	MW-1DUP	DUP	06/18/25 09:25		Iwona	OK
5	Q2344-03	MW-3	SAM	06/18/25 09:25		Iwona	OK
6	Q2344-05	MW-4	SAM	06/18/25 09:25		Iwona	OK
7	Q2344-07	MW-2	SAM	06/18/25 09:25		Iwona	OK

Instrument ID: WC PH METER-1

Daily Analysis Runlog For Sequence/QC Batch ID # LB136185

Review By	jignesh	Review On	6/18/2025 1:26:30 PM
Supervise By	Iwona	Supervise On	6/19/2025 12:58:12 PM
SubDirectory	LB136185	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	W3178,W3093,W3191,W3071,W3161,W3200		

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	CAL1	CAL1	CAL	06/18/25 10:30		jignesh	OK
2	CAL2	CAL2	CAL	06/18/25 10:31		jignesh	OK
3	CAL3	CAL3	CAL	06/18/25 10:33		jignesh	OK
4	ICV	ICV	ICV	06/18/25 10:37		jignesh	OK
5	CCV1	CCV1	CCV	06/18/25 10:40		jignesh	OK
6	Q2344-01	MW-1	SAM	06/18/25 10:47		jignesh	OK
7	Q2344-03	MW-3	SAM	06/18/25 10:55		jignesh	OK
8	Q2344-05	MW-4	SAM	06/18/25 11:00		jignesh	OK
9	Q2344-07	MW-2	SAM	06/18/25 11:10		jignesh	OK
10	Q2344-07DUP	MW-2DUP	DUP	06/18/25 11:15		jignesh	OK
11	CCV2	CCV2	CCV	06/18/25 11:20		jignesh	OK

Instrument ID: WC SC-3

Daily Analysis Runlog For Sequence/QC Batch ID # LB136186

Review By	jignesh	Review On	6/19/2025 11:33:08 AM
Supervise By	Iwona	Supervise On	6/19/2025 12:57:32 PM
SubDirectory	LB136186	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	LB136186BL	LB136186BL	MB	06/17/25 17:20		jignesh	OK
2	LB136186BS	LB136186BS	LCS	06/17/25 17:20	WP113581	jignesh	OK
3	Q2316-02	RW8-SP303-2025061	SAM	06/17/25 17:20		jignesh	OK
4	Q2316-02DUP	RW8-SP303-2025061	DUP	06/17/25 17:20		jignesh	OK
5	Q2344-01	MW-1	SAM	06/17/25 17:20		jignesh	OK
6	Q2344-03	MW-3	SAM	06/17/25 17:20		jignesh	OK
7	Q2344-05	MW-4	SAM	06/17/25 17:20		jignesh	OK
8	Q2344-07	MW-2	SAM	06/17/25 17:20		jignesh	OK

Instrument ID: WC TURBIDIMETER-1

Daily Analysis Runlog For Sequence/QC Batch ID # LB136188

Review By	Eman	Review On	6/18/2025 1:42:24 PM
Supervise By	Iwona	Supervise On	6/18/2025 1:46:44 PM
SubDirectory	LB136188	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	WP113569,WP113563,WP113558,WP113564,WP113557,WP113561,WP113560,WP113568,WP113559,W3116		

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	CAL1	CAL1	CAL	06/18/25 08:30		Iwona	OK
2	CAL2	CAL2	CAL	06/18/25 08:33		Iwona	OK
3	CAL3	CAL3	CAL	06/18/25 08:36		Iwona	OK
4	CAL4	CAL4	CAL	06/18/25 08:40		Iwona	OK
5	CAL5	CAL5	CAL	06/18/25 08:43		Iwona	OK
6	CAL6	CAL6	CAL	06/18/25 08:46		Iwona	OK
7	CAL7	CAL7	CAL	06/18/25 08:50		Iwona	OK
8	ICV	ICV	ICV	06/18/25 08:53		Iwona	OK
9	ICB	ICB	ICB	06/18/25 08:56		Iwona	OK
10	CCV1	CCV1	CCV	06/18/25 09:00		Iwona	OK
11	CCB1	CCB1	CCB	06/18/25 09:03		Iwona	OK
12	LB136188BL	LB136188BL	MB	06/18/25 09:06		Iwona	OK
13	Q2126-10	LOD-MDL-WATER-04	SAM	06/18/25 09:10		Iwona	OK
14	Q2126-11	LOQ-WATER-05-QT2	SAM	06/18/25 09:13		Iwona	OK
15	Q2344-01	MW-1	SAM	06/18/25 09:16		Iwona	OK
16	Q2344-01DUP	MW-1DUP	DUP	06/18/25 09:20		Iwona	OK
17	Q2344-03	MW-3	SAM	06/18/25 09:23		Iwona	OK
18	Q2344-05	MW-4	SAM	06/18/25 09:26		Iwona	OK

Instrument ID: WC TURBIDIMETER-1

Daily Analysis Runlog For Sequence/QC Batch ID # LB136188

Review By	Eman	Review On	6/18/2025 1:42:24 PM
Supervise By	Iwona	Supervise On	6/18/2025 1:46:44 PM
SubDirectory	LB136188	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	WP113569,WP113563,WP113558,WP113564,WP113557,WP113561,WP113560,WP113568,WP113559,W3116		

19	Q2344-07	MW-2	SAM	06/18/25 09:30		Iwona	OK
20	CCV2	CCV2	CCV	06/18/25 09:33		Iwona	OK
21	CCB2	CCB2	CCB	06/18/25 09:36		Iwona	OK

Instrument ID: IC-1

Daily Analysis Runlog For Sequence/QC Batch ID # LB136191

Review By	Iwona	Review On	6/19/2025 9:07:17 AM
Supervise By	Sohil	Supervise On	6/19/2025 9:14:11 AM
SubDirectory	LB136191	Test	Anions
STD. NAME	STD REF.#		
ICAL Standard	WP113186,WP113187,WP113188,WP113189,WP113190,WP113191,WP113192		
ICV Standard	WP113193		
CCV Standard	WP113549,WP113554		
ICSA Standard	N/A		
CRI Standard	N/A		
LCS Standard	WP113550,WP113555		
Chk Standard	WP113194,WP113195		

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	STD1	STD1	CAL1	05/22/25 11:09	All standards, samples, and	NF/IZ	OK
2	STD2	STD2	CAL2	05/22/25 11:30	QC are filtered through	NF/IZ	OK
3	STD3	STD3	CAL3	05/22/25 11:52	0.45um, filter lot W3160	NF/IZ	OK
4	STD4	STD4	CAL4	05/22/25 12:13		NF/IZ	OK
5	STD5	STD5	CAL5	05/22/25 12:35		NF/IZ	OK
6	STD6	STD6	CAL6	05/22/25 12:56		NF/IZ	OK
7	STD7	STD7	CAL7	05/22/25 13:17		NF/IZ	OK
8	ICV1	ICV1	ICV	05/22/25 13:39		NF/IZ	OK
9	ICB1	ICB1	ICB	05/22/25 14:22		NF/IZ	OK
10	CCV1	CCV1	CCV	06/17/25 11:12		NF/IZ	OK
11	CCB1	CCB1	CCB	06/17/25 11:33		NF/IZ	OK
12	LB136191BLW	LB136191BLW	MB	06/17/25 11:55		NF/IZ	OK
13	LB136191BSW	LB136191BSW	LCS	06/17/25 12:16		NF/IZ	OK
14	Q2344-01	MW-1	SAM	06/17/25 16:42	Cl is high	NF/IZ	Dilution
15	Q2344-01MS	MW-1MS	MS	06/17/25 17:04	9.5ml of sample, 0.5mL W3092	NF/IZ	OK
16	Q2344-01MSD	MW-1MSD	MSD	06/17/25 17:25	9.5ml of sample, 0.5mL W3092	NF/IZ	OK
17	Q2344-03	MW-3	SAM	06/17/25 17:47	Cl and SO2-4 is high	NF/IZ	Dilution
18	Q2344-05	MW-4	SAM	06/17/25 18:08	Cl and SO2-4 is high	NF/IZ	Dilution

Instrument ID: IC-1

Daily Analysis Runlog For Sequence/QC Batch ID # LB136191

Review By	Iwona	Review On	6/19/2025 9:07:17 AM
Supervise By	Sohil	Supervise On	6/19/2025 9:14:11 AM
SubDirectory	LB136191	Test	Anions
STD. NAME	STD REF.#		
ICAL Standard	WP113186,WP113187,WP113188,WP113189,WP113190,WP113191,WP113192		
ICV Standard	WP113193		
CCV Standard	WP113549,WP113554		
ICSA Standard	N/A		
CRI Standard	N/A		
LCS Standard	WP113550,WP113555		
Chk Standard	WP113194,WP113195		

19	Q2344-07	MW-2	SAM	06/17/25 18:30	Cl is high	NF/IZ	Dilution
20	CCV2	CCV2	CCV	06/17/25 18:52		NF/IZ	OK
21	CCB2	CCB2	CCB	06/17/25 19:13		NF/IZ	OK
22	CCV3	CCV3	CCV	06/18/25 10:32		NF/IZ	OK
23	CCB3	CCB3	CCB	06/18/25 10:53		NF/IZ	OK
24	LB136191BLW2	LB136191BLW2	MB	06/18/25 11:15		NF/IZ	OK
25	LB136191BSW2	LB136191BSW2	LCS	06/18/25 11:36		NF/IZ	OK
26	Q2344-01DL	MW-1DL	SAM	06/18/25 11:58	20X for Cl	NF/IZ	Confirms
27	Q2344-03DL	MW-3DL	SAM	06/18/25 12:20	Cl is high	NF/IZ	Dilution
28	Q2344-03DL2	MW-3DL2	SAM	06/18/25 12:41	50X for Cl	NF/IZ	Confirms
29	Q2344-05DL	MW-4DL	SAM	06/18/25 13:03	Cl is high	NF/IZ	Dilution
30	Q2344-05DL2	MW-4DL2	SAM	06/18/25 13:24	50X for Cl	NF/IZ	Confirms
31	Q2344-07DL	MW-2DL	SAM	06/18/25 13:46	100X for Cl	NF/IZ	Confirms
32	CCV4	CCV4	CCV	06/18/25 14:07		NF/IZ	OK
33	CCB4	CCB4	CCB	06/18/25 14:29		NF/IZ	OK

Instrument ID: WC SC-3

Daily Analysis Runlog For Sequence/QC Batch ID # LB136202

Review By	jignesh	Review On	6/19/2025 12:38:33 PM
Supervise By	Iwona	Supervise On	6/19/2025 12:53:46 PM
SubDirectory	LB136202	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	LB136202BL	LB136202BL	MB	06/18/25 18:00		jignesh	OK
2	LB136202BS	LB136202BS	LCS	06/18/25 18:00	55mg w3186 + 100 ml for w3112	jignesh	OK
3	Q2316-02	RW8-SP303-2025061	SAM	06/18/25 18:00		jignesh	OK
4	Q2344-01	MW-1	SAM	06/18/25 18:00		jignesh	OK
5	Q2344-03	MW-3	SAM	06/18/25 18:00		jignesh	OK
6	Q2344-05	MW-4	SAM	06/18/25 18:00		jignesh	OK
7	Q2344-07	MW-2	SAM	06/18/25 18:00		jignesh	OK
8	Q2344-07DUP	MW-2DUP	DUP	06/18/25 18:00		jignesh	OK
9	Q2348-01	001-WILLETS-PT-BL	SAM	06/18/25 18:00		jignesh	OK
10	Q2348-02	002-35TH-AVE(MAY)	SAM	06/18/25 18:00		jignesh	OK
11	Q2360-02	COMP	SAM	06/18/25 18:00		jignesh	OK

Instrument ID: TITRATOR

Daily Analysis Runlog For Sequence/QC Batch ID # LB136205

Review By	Iwona	Review On	6/20/2025 4:04:31 PM
Supervise By	Sohil	Supervise On	6/20/2025 4:09:21 PM
SubDirectory	LB136205	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	WP113583		
Chk Standard	W3071,W3178,W3150		

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	LB136205BLW	LB136205BLW	MB	06/19/25 12:15	pH=3.98	Iwona	OK
2	LB136205BSW	LB136205BSW	LCS	06/19/25 12:18	pH=4.38	Iwona	OK
3	Q2334-01	MW3	SAM	06/19/25 12:24	pH=4.31	Iwona	OK
4	Q2334-01DUP	MW3DUP	DUP	06/19/25 12:29	pH=4.35	Iwona	OK
5	Q2334-02	MW4	SAM	06/19/25 12:34	pH=4.30	Iwona	OK
6	Q2334-03	GBTW1	SAM	06/19/25 12:38	pH=4.33	Iwona	OK
7	Q2344-01	MW-1	SAM	06/19/25 12:43	pH=4.31	Iwona	OK
8	Q2344-03	MW-3	SAM	06/19/25 12:49	pH=4.40	Iwona	OK
9	Q2344-05	MW-4	SAM	06/19/25 12:55	pH=4.37	Iwona	OK
10	Q2344-07	MW-2	SAM	06/19/25 13:02	pH=4.32	Iwona	OK

Instrument ID: KONELAB

Daily Analysis Runlog For Sequence/QC Batch ID # LB136242

Review By	rubina	Review On	6/25/2025 8:24:30 AM
Supervise By	Iwona	Supervise On	6/25/2025 9:31:06 AM
SubDirectory	LB136242	Test	Ammonia
STD. NAME	STD REF.#		
ICAL Standard	WP113645		
ICV Standard	WP113647		
CCV Standard	WP113646		
ICSA Standard	N/A		
CRI Standard	N/A		
LCS Standard	WP113449		
Chk Standard	WP113429,WP111745,WP111385,WP111660		

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	0.0PPM	0.0PPM	CAL1	06/24/25 09:02		rubina	OK
2	0.1PPM	0.1PPM	CAL2	06/24/25 09:02		rubina	OK
3	0.2PPM	0.2PPM	CAL3	06/24/25 09:02		rubina	OK
4	0.4PPM	0.4PPM	CAL4	06/24/25 09:02		rubina	OK
5	1.0PPM	1.0PPM	CAL5	06/24/25 09:03		rubina	OK
6	1.3PPM	1.3PPM	CAL6	06/24/25 09:03		rubina	OK
7	2.0PPM	2.0PPM	CAL7	06/24/25 09:03		rubina	OK
8	ICV1	ICV1	ICV	06/24/25 09:40		rubina	OK
9	ICB1	ICB1	ICB	06/24/25 09:40		rubina	OK
10	CCV1	CCV1	CCV	06/24/25 09:40		rubina	OK
11	CCB1	CCB1	CCB	06/24/25 09:40		rubina	OK
12	RL	RL	LOQ	06/24/25 09:40		rubina	OK
13	PB168578BL	PB168578BL	MB	06/24/25 09:50		rubina	OK
14	PB168578BS	PB168578BS	LCS	06/24/25 09:50		rubina	OK
15	Q2344-01	MW-1	SAM	06/24/25 09:50		rubina	OK
16	Q2344-03	MW-3	SAM	06/24/25 09:50		rubina	OK
17	Q2344-05	MW-4	SAM	06/24/25 09:51		rubina	OK
18	Q2344-07	MW-2	SAM	06/24/25 10:01	NH3 is high	rubina	Dilution

Instrument ID: KONELAB

Daily Analysis Runlog For Sequence/QC Batch ID # LB136242

Review By	rubina	Review On	6/25/2025 8:24:30 AM
Supervise By	Iwona	Supervise On	6/25/2025 9:31:06 AM
SubDirectory	LB136242	Test	Ammonia
STD. NAME	STD REF.#		
ICAL Standard	WP113645		
ICV Standard	WP113647		
CCV Standard	WP113646		
ICSA Standard	N/A		
CRI Standard	N/A		
LCS Standard	WP113449		
Chk Standard	WP113429,WP111745,WP111385,WP111660		

19	Q2385-01	A5311	SAM	06/24/25 10:01		rubina	OK
20	Q2385-01DUP	A5311DUP	DUP	06/24/25 10:01		rubina	OK
21	Q2385-01MS	A5311MS	MS	06/24/25 10:01		rubina	OK
22	CCV2	CCV2	CCV	06/24/25 10:07		rubina	OK
23	CCB2	CCB2	CCB	06/24/25 10:07		rubina	OK
24	Q2385-01MSD	A5311MSD	MSD	06/24/25 10:44		rubina	OK
25	CCV3	CCV3	CCV	06/24/25 10:45		rubina	OK
26	CCB3	CCB3	CCB	06/24/25 10:45		rubina	OK
27	Q2344-07DL	MW-2DL	SAM	06/24/25 10:45	5X For NH3	rubina	Confirms
28	CCV4	CCV4	CCV	06/24/25 10:50		rubina	OK
29	CCB4	CCB4	CCB	06/24/25 10:50		rubina	OK

Instrument ID: KONELAB

Daily Analysis Runlog For Sequence/QC Batch ID # LB136244

Review By	rubina	Review On	6/25/2025 8:18:51 AM
Supervise By	Iwona	Supervise On	6/25/2025 9:30:59 AM
SubDirectory	LB136244	Test	TKN
STD. NAME	STD REF.#		
ICAL Standard	WP113625		
ICV Standard	WP113627		
CCV Standard	WP113626		
ICSA Standard	N/A		
CRI Standard	N/A		
LCS Standard	WP113628		
Chk Standard	WP113429,WP111745,WP111385,WP111660		

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	0.0PPM	0.0PPM	CAL1	06/24/25 11:51		rubina	OK
2	0.5PPM	0.5PPM	CAL2	06/24/25 11:52		rubina	OK
3	1.0PPM	1.0PPM	CAL3	06/24/25 11:52		rubina	OK
4	2.5PPM	2.5PPM	CAL4	06/24/25 11:52		rubina	OK
5	5.0PPM	5.0PPM	CAL5	06/24/25 11:52		rubina	OK
6	6.7PPM	6.7PPM	CAL6	06/24/25 11:52		rubina	OK
7	10.0PPM	10.0PPM	CAL7	06/24/25 11:52		rubina	OK
8	ICV1	ICV1	ICV	06/24/25 12:36		rubina	OK
9	ICB1	ICB1	ICB	06/24/25 12:36		rubina	OK
10	CCV1	CCV1	CCV	06/24/25 12:36		rubina	OK
11	CCB1	CCB1	CCB	06/24/25 12:36		rubina	OK
12	RL	RL	LOQ	06/24/25 12:36		rubina	OK
13	PB168588BL	PB168588BL	MB	06/24/25 12:46		rubina	OK
14	PB168588BS	PB168588BS	LCS	06/24/25 12:47		rubina	OK
15	Q2344-01	MW-1	SAM	06/24/25 12:47		rubina	OK
16	Q2344-01DUP	MW-1DUP	DUP	06/24/25 12:47		rubina	OK
17	Q2344-01MS	MW-1MS	MS	06/24/25 12:47		rubina	OK
18	Q2344-01MSD	MW-1MSD	MSD	06/24/25 12:47		rubina	OK

Instrument ID: KONELAB

Daily Analysis Runlog For Sequence/QC Batch ID # LB136244

Review By	rubina	Review On	6/25/2025 8:18:51 AM
Supervise By	Iwona	Supervise On	6/25/2025 9:30:59 AM
SubDirectory	LB136244	Test	TKN
STD. NAME	STD REF.#		
ICAL Standard	WP113625		
ICV Standard	WP113627		
CCV Standard	WP113626		
ICSA Standard	N/A		
CRI Standard	N/A		
LCS Standard	WP113628		
Chk Standard	WP113429,WP111745,WP111385,WP111660		

19	Q2344-03	MW-3	SAM	06/24/25 12:47		rubina	OK
20	Q2344-05	MW-4	SAM	06/24/25 12:47		rubina	OK
21	Q2344-07	MW-2	SAM	06/24/25 12:57		rubina	OK
22	CCV2	CCV2	CCV	06/24/25 12:57		rubina	OK
23	CCB2	CCB2	CCB	06/24/25 12:57		rubina	OK
24	Q2385-01	A5311	SAM	06/24/25 12:57		rubina	OK
25	CCV3	CCV3	CCV	06/24/25 12:57		rubina	OK
26	CCB3	CCB3	CCB	06/24/25 12:57		rubina	OK

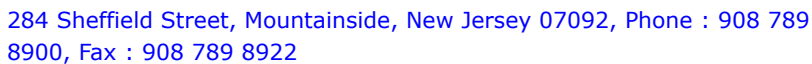


284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Instrument ID:

Daily Analysis Runlog For Sequence/QC Batch ID #

Review By		Review On					
Supervise By		Supervise On					
STD. NAME		STD REF.#					
ICAL Standard ICV Standard CCV Standard ICSA Standard CRI Standard LCS Standard Chk Standard							
Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status



Order ID : Q2344

Test : Alkalinity,Ammonia,Anions Group1,BOD5,pH,TDS,TKN,Total Nitrogen,TSS,Turbidity

Prepbatch ID : PB168578,PB168588,

Sequence ID/Qc Batch ID: LB136184,LB136185,LB136186,LB136188,LB136191,LB136202,LB136205,LB136242,LB136244,LB136247

WP111317,WP111318,WP111323,WP111325,WP111385,WP111660,WP111745,WP112079,WP112611,WP112612,WP112796,WP112828,WP112832,WP113135,WP113186,WP113187,WP113188,WP113189,WP113190,WP113191,WP113192,WP113193,WP113194,WP113195,WP113429,WP113449,WP113450,WP113549,WP113550,WP113552,WP113553,WP113554,WP113555,WP113556,WP113557,WP113558,WP113559,WP113560,WP113561,WP113563,WP113564,WP113565,WP113566,WP113567,WP113568,WP113569,WP113582,WP113583,WP113625,WP113626,WP113627,WP113628,WP113645,WP113646,WP113647.

M6041,W2647,W2653,W2654,W2666,W2700,W2858,W2983,W3058,W3071,W3078,W3081,W3093,W3103,W3105,W3109,W3112,W3113,W3116,W3132,W3133,W3144,W3148,W3149,W3150,W3155,W3161,W3163,W3174,W3178,W3180,W3191,W3195,W3196,W3197,W3199,W3200,W3212,W3215.



<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
1796	NaOH, 0.1N	WP111317	01/09/2025	07/09/2025	Rubina Mughal	WETCHEM_SCALE_7 (WCS-6)	None	Iwona Zarych 01/09/2025
<u>FROM</u> 4.00000gram of W3113 + 996.00000ml of W3112 = Final Quantity: 1000.000 ml								

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
1471	NaOH Solution, 6N	WP111318	01/09/2025	07/09/2025	Rubina Mughal	WETCHEM_SCALE_7 (WCS-6)	None	Iwona Zarych 01/09/2025
<u>FROM</u> 240.00000gram of W3113 + 760.00000ml of W3112 = Final Quantity: 1000.000 ml								



<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
1571	Sodium hydroxide, 1N	WP111323	01/09/2025	07/09/2025	Rubina Mughal	WETCHEM_S CALE_8 (WC SC-7)	None	Iwona Zarych 01/09/2025
<u>FROM</u> 4.00000gram of W3113 + 96.00000ml of W3112 = Final Quantity: 100.000 ml								

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
1494	BORATE BUFFER	WP111325	01/09/2025	07/09/2025	Rubina Mughal	WETCHEM_SCALE_5 (WC SC-5)	None	Iwona Zarych 01/09/2025
<u>FROM</u> 100.00000L of W3112 + 9.50000gram of W2700 + 88.00000ml of WP111317 = Final Quantity: 100.000 L								



<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
290	Phenol reagent for Ammonia	WP111385	01/13/2025	07/13/2025	Rubina Mughal	WETCHEM_SCALE_8 (WCS-7)	None	Iwona Zarych 01/13/2025
<u>FROM</u> 3.20000gram of W3113 + 8.30000gram of W2858 + 88.80000ml of W3112 = Final Quantity: 100.000 ml								

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
635	EDTA BUFFER FOR AMMONIA	WP111660	01/28/2025	07/28/2025	Rubina Mughal	WETCHEM_SCALE_8 (WC SC-7)	None	Iwona Zarych 01/28/2025
<u>FROM</u> 5.50000gram of W3113 + 50.00000gram of W3132 + 950.00000ml of W3112 = Final Quantity: 1000.000 ml								

Wet Chemistry STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
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

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
1338	TKN DISTILLING BUFFER	WP112079	02/27/2025	08/27/2025	Rubina Mughal	WETCHEM_S CALE_8 (WC SC-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



<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
153	Ammonia Stock Std. (1000 ppm)	WP112611	04/07/2025	10/07/2025	Rubina Mughal	WETCHEM_SCALE_8 (WC SC-7)	None	Iwona Zarych 04/07/2025
<u>FROM</u> 3.81900gram of W3196 + 996.18100ml of W3112 = Final Quantity: 1000.000 ml								

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
1895	Ammonia Stock Std, 1000PPM-SS	WP112612	04/07/2025	10/07/2025	Rubina Mughal	WETCHEM_S CALE_8 (WC SC-7)	None	Iwona Zarych 04/07/2025
<u>FROM</u>	3.81900gram of W3195 + 996.18100ml of W3112 = Final Quantity: 1000.000 ml							



<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
4035	IC ELUENT CONCENTRATE FOR IC-1	WP112796	04/22/2025	10/22/2025	Iwona Zarych	WETCHEM_SCALE_5 (WCS-5)	None	Jignesh Parikh 04/22/2025
<u>FROM</u> 2.10000gram of W2647 + 84.75000gram of W3163 + 913.15000ml of W3112 = Final Quantity: 1000.000 ml								

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
1597	0.04 N H2SO4	WP112828	04/25/2025	10/25/2025	Rubina Mughal	None	WETCHEM_PIPETTE_3 (WC)	Iwona Zarych 04/25/2025
<u>FROM</u>	1.00000ml of M6041 + 999.00000ml of W3112 = Final Quantity: 1000.000 ml							



<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
1841	Sulfuric Acid, 1N	WP112832	04/25/2025	10/25/2025	Rubina Mughal	None	WETCHEM_PIPETTE_3 (WC)	Iwona Zarych 04/25/2025
<u>FROM</u> 2.80000ml of M6041 + 97.20000ml of W3112 = Final Quantity: 100.000 ml								

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
619	TKN digestion solution	WP113135	05/20/2025	11/20/2025	Rubina Mughal	WETCHEM_SCALE_8 (WC SC-7)	None	Iwona Zarych 05/20/2025
<u>FROM</u> 134.00000gram of W2983 + 134.00000ml of M6041 + 7.30000gram of W3199 + 725.00000ml of W3112 = Final Quantity: 1000.000 ml								

Wet Chemistry STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
2487	Anions 300/9056 calibration standard 1	WP113186	05/22/2025	05/23/2025	Iwona Zarych	None	WETCHEM_F IPETTE_3 (WC)	Jignesh Parikh 05/22/2025
FROM 10.00000ml of W3112 = Final Quantity: 10.000 ml								

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
24	Anions 300/9056 calibration standard 2	WP113187	05/22/2025	05/23/2025	Iwona Zarych	None	WETCHEM_F IPETTE_3 (WC)	Jignesh Parikh 05/22/2025
FROM 0.20000ml of W3180 + 9.80000ml of W3112 = Final Quantity: 10.000 ml								

Wet Chemistry STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
25	Anions 300/9056 calibration standard 3	WP113188	05/22/2025	05/23/2025	Iwona Zarych	None	WETCHEM_F IPETTE_3 (WC)	Jignesh Parikh 05/22/2025
FROM 0.40000ml of W3180 + 9.60000ml of W3112 = Final Quantity: 10.000 ml								

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
26	Anions 300/9056 calibration standard 4	WP113189	05/22/2025	05/23/2025	Iwona Zarych	None	WETCHEM_F IPETTE_3 (WC)	Jignesh Parikh 05/22/2025
FROM 0.50000ml of W3180 + 9.50000ml of W3112 = Final Quantity: 10.000 ml								

Wet Chemistry STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3680	Anions 300/9056 calibration standard 5-CCV	WP113190	05/22/2025	05/23/2025	Iwona Zarych	None	WETCHEM_FIPETTE_3	Jignesh Parikh

(WC)

FROM 5.00000ml of W3180 + 95.00000ml of W3112 = Final Quantity: 50.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3679	Anions 300/9056 calibration standard 6	WP113191	05/22/2025	05/23/2025	Iwona Zarych	None	WETCHEM_FIPETTE_3	Jignesh Parikh

(WC)

FROM 2.00000ml of W3180 + 8.00000ml of W3112 = Final Quantity: 10.000 ml

Wet Chemistry STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3681	Anions 300/9056 calibration standard 7	WP113192	05/22/2025	05/23/2025	Iwona Zarych	None	WETCHEM_F IPETTE_3 (WC)	Jignesh Parikh 05/22/2025
FROM 2.50000ml of W3180 + 7.50000ml of W3112 = Final Quantity: 10.000 ml								

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3233	Anions 300/9056 ICV-LCS std	WP113193	05/22/2025	05/23/2025	Iwona Zarych	None	WETCHEM_F IPETTE_3 (WC)	Jignesh Parikh 05/22/2025
FROM 45.00000ml of W3112 + 5.00000ml of W3197 = Final Quantity: 50.000 ml								

Wet Chemistry STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
4036	IC ELUENT FOR IC-1	WP113194	05/22/2025	06/22/2025	Iwona Zarych	None	Glass Pipette-A	Jignesh Parikh 05/22/2025

FROM 1980.00000ml of W3112 + 20.00000ml of WP112796 = Final Quantity: 2000.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
4037	IC H2SO4 FOR IC-1	WP113195	05/22/2025	06/22/2025	Iwona Zarych	None	Glass Pipette-A	Jignesh Parikh 05/22/2025

FROM 5.60000ml of M6041 + 994.40000ml of W3112 = Final Quantity: 1000.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
740	sodium nitroferricyanide for ammonia	WP113429	06/06/2025	07/06/2025	Iwona Zarych	WETCHEM_SCALE_5 (WCS-5)	None	Jignesh Parikh 06/06/2025
<u>FROM</u> 0.05000gram of W2666 + 99.95000ml of W3112 = Final Quantity: 100.000 ml								

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
1639	Ammonia Intermediate Std-Second source, 50PPM	WP113449	06/09/2025	07/09/2025	Rubina Mughal	None	WETCHEM_PIPETTE_3 (WC)	Iwona Zarych 06/10/2025
<u>FROM</u> 95.00000ml of W3112 + 5.00000ml of WP112612 = Final Quantity: 100.000 ml								



<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
1322	Ammonia Intermediate Std, 50PPM	WP113450	06/09/2025	07/09/2025	Rubina Mughal	None	WETCHEM_PIPETTE_3 (WC)	Iwona Zarych 06/10/2025
<u>FROM</u> 95.00000ml of W3112 + 5.00000ml of WP112611 = Final Quantity: 100.000 ml								

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3680	Anions 300/9056 calibration standard 5-CCV	WP113549	06/17/2025	06/18/2025	Iwona Zarych	None	WETCHEM_PIPETTE_3	Jignesh Parikh
<u>FROM</u>		(WC)						
45.00000ml of W3112 + 5.00000ml of W3180 = Final Quantity: 50.000 ml								

Wet Chemistry STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3233	Anions 300/9056 ICV-LCS std	WP113550	06/17/2025	06/18/2025	Iwona Zarych	None	WETCHEM_F IPETTE_3 (WC)	Jignesh Parikh 06/17/2025
FROM 45.00000ml of W3112 + 5.00000ml of W3197 = Final Quantity: 50.000 ml								

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
1843	HEXAMETHYLENETETRAMINE SOLUTION 1	WP113552	06/17/2025	07/17/2025	Iwona Zarych	WETCHEM_S CALE_5 (WC SC-5)	None	Jignesh Parikh 06/23/2025
FROM 10.00000gram of W3081 + 90.00000ml of W3112 = Final Quantity: 100.000 ml								



<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
1167	hydrazine sulfate solution 1	WP113553	06/17/2025	07/17/2025	Iwona Zarych	WETCHEM_SCALE_5 (WCS-5)	None	Jignesh Parikh 06/23/2025
<u>FROM</u>	1.00000gram of W3078 + 99.00000ml of W3112 = Final Quantity: 100.000 ml							

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3680	Anions 300/9056 calibration standard 5-CCV	WP113554	06/18/2025	06/19/2025	Iwona Zarych	None	WETCHEM_PIPETTE_3 (WC)	Jignesh Parikh 06/23/2025
<u>FROM</u> 45.00000ml of W3112 + 5.00000ml of W3180 = Final Quantity: 50.000 ml								



<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3233	Anions 300/9056 ICV-LCS std	WP113555	06/18/2025	06/19/2025	Iwona Zarych	None	WETCHEM_FIPETTE_3	Jignesh Parikh
<u>FROM</u>		(WC)						
45.00000ml of W3112 + 5.00000ml of W3197 = Final Quantity: 50.000 ml								

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
1102	Formazin turbidity 400 NTU suspension	WP113556	06/17/2025	07/17/2025	Iwona Zarych	None	None	Jignesh Parikh
<u>FROM</u> 90.00000ml of W3112 + 5.00000ml of WP113552 + 5.00000ml of WP113553 = Final Quantity: 100.000 ml								

Wet Chemistry STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3718	Turbidity Calibration std, 40NTU	WP113557	06/18/2025	06/19/2025	Iwona Zarych	None	Glass Pipette-A	Jignesh Parikh 06/23/2025

FROM 90.00000ml of W3112 + 10.00000ml of WP113556 = Final Quantity: 100.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3714	Turbidity Calibration std, 20NTU	WP113558	06/18/2025	06/19/2025	Iwona Zarych	None	Glass Pipette-A	Jignesh Parikh 06/23/2025

FROM 95.00000ml of W3112 + 5.00000ml of WP113556 = Final Quantity: 100.000 ml

Wet Chemistry STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3807	Turbidity Calibration - CCV std, 10 NTU	WP113559	06/18/2025	06/19/2025	Iwona Zarych	None	WETCHEM_FIPETTE_3 (WC)	Jignesh Parikh 06/23/2025

FROM 97.50000ml of W3112 + 2.50000ml of WP113556 = Final Quantity: 100.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3722	Turbidity Calibration std, 5NTU	WP113560	06/18/2025	06/19/2025	Iwona Zarych	None	Glass Pipette-A	Jignesh Parikh 06/23/2025

FROM 87.50000ml of W3112 + 12.50000ml of WP113557 = Final Quantity: 100.000 ml

Wet Chemistry STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3720	Turbidity Calibration std, 1NTU	WP113561	06/18/2025	06/19/2025	Iwona Zarych	None	WETCHEM_F IPETTE_3 (WC)	Jignesh Parikh 06/23/2025
FROM 97.50000ml of W3112 + 2.50000ml of WP113557 = Final Quantity: 100.000 ml								

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3713	Turbidity Calibration std, 0NTU	WP113563	06/18/2025	06/19/2025	Iwona Zarych	None	None	Jignesh Parikh 06/23/2025
FROM 100.00000ml of W3112 = Final Quantity: 100.000 ml								

Wet Chemistry STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3717	Turbidity Calibration std, 80NTU	WP113564	06/18/2025	06/19/2025	Iwona Zarych	None	Glass Pipette-A	Jignesh Parikh 06/23/2025

FROM 80.00000ml of W3112 + 20.00000ml of WP113556 = Final Quantity: 100.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
127	BOD Dilution fluid	WP113565	06/18/2025	06/19/2025	Iwona Zarych	None	None	Jignesh Parikh 06/23/2025

FROM 18.00000L of W3112 + 3.00000PILLOW of W3144 = Final Quantity: 18.000 L

Wet Chemistry STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
128	polyseed seed control	WP113566	06/18/2025	06/19/2025	Iwona Zarych	None	None	Jignesh Parikh
								06/23/2025

FROM 1.00000PILLOW of W3212 + 300.00000ml of WP113565 = Final Quantity: 300.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
129	Glutamic acid-glucose mix for BOD	WP113567	06/18/2025	06/19/2025	Iwona Zarych	WETCHEM_SCALE_6 (M SC-4)	None	Jignesh Parikh
								06/23/2025

FROM 0.15000gram of W2653 + 0.15000gram of W2654 + 1000.00000ml of W3112 = Final Quantity: 1000.000 ml

Wet Chemistry STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3739	Turbidity LOQ std, 1.0NTU	WP113568	06/18/2025	06/19/2025	Iwona Zarych	None	Glass Pipette-A	Jignesh Parikh 06/23/2025

FROM 10.00000ml of W3116 + 90.00000ml of W3112 = Final Quantity: 100.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
1998	TURBIDITY LOD STD, 0.5NTU	WP113569	06/18/2025	06/19/2025	Iwona Zarych	None	Glass Pipette-A	Jignesh Parikh 06/23/2025

FROM 5.00000ml of W3116 + 95.00000ml of W3112 = Final Quantity: 100.000 ml

Wet Chemistry STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3407	Acidity-Alkalinity Stock Std(-+2500PPM)	WP113582	06/19/2025	06/26/2025	Iwona Zarych	WETCHEM_SCALE_5 (WC SC-5)	None	Jignesh Parikh 06/23/2025

FROM 0.62500gram of W3058 + 249.40000ml of W3112 = Final Quantity: 250.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
293	alkalinity LCSW 50 ppm	WP113583	06/19/2025	06/26/2025	Iwona Zarych	None	Glass Pipette-A	Jignesh Parikh 06/23/2025

FROM 196.00000ml of W3112 + 4.00000ml of WP113582 = Final Quantity: 200.000 ml



<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
295	TKN Calibration Std (10 ppm)	WP113625	06/23/2025	06/30/2025	Rubina Mughal	None	WETCHEM_PIPETTE_3 (WC)	Jignesh Parikh 06/23/2025
<u>FROM</u> 49.50000ml of W3112 + 0.50000ml of WP112611 = Final Quantity: 50.000 ml								

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
297	TKN CCV STD 5 ppm	WP113626	06/23/2025	06/30/2025	Rubina Mughal	None	WETCHEM_PIPETTE_3 (WC)	Jignesh Parikh 06/23/2025
<u>FROM</u> 49.75000ml of W3112 + 0.25000ml of WP112611 = Final Quantity: 50.000 ml								

Wet Chemistry STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
296	TKN ICV STD 5 ppm	WP113627	06/23/2025	06/30/2025	Rubina Mughal	None	WETCHEM_F IPETTE_3 (WC)	Jignesh Parikh 06/23/2025
FROM 49.75000ml of W3112 + 0.25000ml of WP112612 = Final Quantity: 50.000 ml								

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
298	TKN LCS STD 5 ppm	WP113628	06/23/2025	06/30/2025	Rubina Mughal	None	WETCHEM_F IPETTE_3 (WC)	Jignesh Parikh 06/23/2025
FROM 49.75000ml of W3112 + 0.25000ml of WP112612 = Final Quantity: 50.000 ml								

Wet Chemistry STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
275	Ammonia Calibration Std. (2 ppm)	WP113645	06/24/2025	06/25/2025	Rubina Mughal	None	WETCHEM_F IPETTE_3 (WC)	Jignesh Parikh 06/24/2025
FROM 48.00000ml of W3112 + 2.00000ml of WP113450 = Final Quantity: 50.000 ml								

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
285	Ammonia CCV Std. (1 ppm)	WP113646	06/24/2025	06/25/2025	Rubina Mughal	None	WETCHEM_F IPETTE_3 (WC)	Jignesh Parikh 06/24/2025
FROM 49.00000ml of W3112 + 1.00000ml of WP113450 = Final Quantity: 50.000 ml								



<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
286	Ammonia ICV Std. (1 ppm)	WP113647	06/24/2025	06/25/2025	Rubina Mughal	None	WETCHEM_PIPETTE_3 (WC)	Jignesh Parikh 06/24/2025
<u>FROM</u> 49.00000ml of W3112 + 1.00000ml of WP113449 = Final Quantity: 50.000 ml								

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Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
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.	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.	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.	87683 / Sodium Nitroferricyanide 250g	W12F013	02/10/2030	02/10/2020 / apatel	02/10/2020 / apatel	W2666

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	J3568-1 / Sodium Borate, 500 gms	2019111354	04/23/2025	04/23/2020 / apatel	03/11/2020 / apatel	W2700

CHEMICAL RECEIPT LOG BOOK

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.	J3278-5 / Potassium Sulfate, 2.5 Kgs	SLCM9788	11/21/2027	11/21/2022 / lwona	11/21/2022 / lwona	W2983

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 / lwona	W3058

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 / lwona	W3071

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 / lwona	01/26/2024 / lwona	W3078

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 / lwona	02/26/2024 / lwona	W3081

CHEMICAL RECEIPT LOG BOOK

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.	4620-32 / MANGANOUS SULFATE SOLUTION-364	2403J02	03/31/2026	04/22/2024 / lwona	04/22/2024 / lwona	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,4LIT RE	4403S13	09/30/2025	04/22/2024 / lwona	04/22/2024 / lwona	W3105

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 / lwona	05/23/2024 / lwona	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 / lwona	07/03/2024 / lwona	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 / lwona	07/08/2024 / lwona	W3113

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Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
HACH	2659949 / 10 NTU Standard 500 ml	A4151	05/30/2026	07/12/2024 / lwona	07/12/2024 / lwona	W3116

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 / lwona	07/26/2024 / lwona	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 / lwona	08/22/2024 / lwona	W3133

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 / lwona	W3144

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 / lwona	10/07/2024 / lwona	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 / lwona	10/16/2024 / lwona	W3149

CHEMICAL RECEIPT LOG BOOK

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 / lwona	11/04/2024 / lwona	W3150

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 / lwona	12/02/2024 / lwona	W3155

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 / lwona	12/09/2024 / lwona	W3161

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	24E3156178	09/30/2027	12/10/2024 / lwona	12/10/2024 / lwona	W3163

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 / lwona	01/24/2025 / lwona	W3174

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	2411A93	10/30/2026	04/01/2025 / JIGNESH	01/27/2025 / jignesh	W3178

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	300-CAL-A-500ML / 300.0 Calibration Standard, 500 ml	V2-MEB742616	02/19/2026	02/19/2025 / Iwona	01/27/2025 / Iwona	W3180

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	2410F80	03/31/2026	04/01/2025 / JIGNESH	03/13/2025 / jignesh	W3191

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	24L0356561	08/31/2027	03/19/2025 / Iwona	03/19/2025 / Iwona	W3195

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	MKCV1009	09/30/2026	03/19/2025 / Iwona	03/19/2025 / Iwona	W3196

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	040525	04/05/2027	04/08/2025 / Iwona	04/08/2025 / Iwona	W3197

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	24H0956271	05/31/2027	04/11/2025 / Iwona	04/11/2025 / Iwona	W3199

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
RICCA CHEMICAL COMPANY	1615-16 / pH 12.00 Buffer	2504F20	09/30/2026	04/11/2025 / lwona	04/11/2025 / lwona	W3200

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	136742-80 / POLYSEED	132409	09/30/2026	05/21/2025 / lwona	05/21/2025 / lwona	W3212

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	10D3242	12/31/2028	06/09/2025 / lwona	06/09/2025 / lwona	W3215

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

James Ethier
Jamie Ethier
Vice President Global Quality

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700
Avantor Performance Materials, LLC
100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone: 610.386.1700

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	40.5°C min	40.5 °C
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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W2666 Recived on 02/10/2020 by AP

Product No.: 87683

Product: Sodium pentacyanonitrosylferrate(III) dihydrate, ACS,
99.0-102.0%

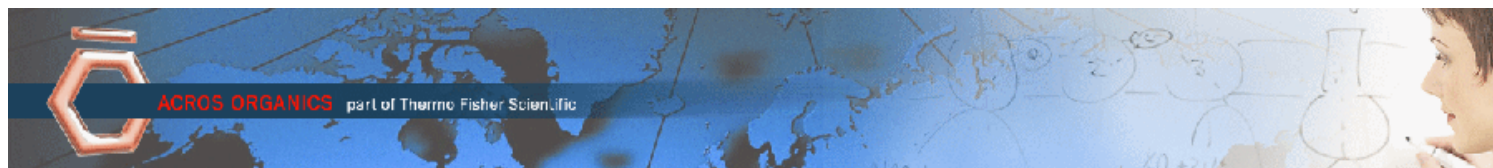
Lot No.: W12F013

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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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 (SO ₄)	=<300 ppm	=<200 ppm
Ammonium (NH ₄)	=<200 ppm	=<200 ppm
Arsenic oxide (As ₂ O ₃)	=<1 ppm	=<1 ppm



A handwritten signature in black ink, which appears to read "L. Van den Broek".

L. Van den Broek, QA Manager

Issued: 24 January 2020

Acros Organics

ENA23, zone 1, nr 1350, Janssen Pharmaceuticaaan 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


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.

~~112778~~ W2983
Rec. 11/21/22 12

Product Name:

Certificate of Analysis**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



Test	Specification	Result
Appearance (Color)	White	White
Appearance (Form)	Powder	Powder
Solubility (Color)	Colorless	Colorless
Solubility (Turbidity)	Clear	Clear
10 g plus 150 mL, H ₂ O		
Titration with NaOH	≥ 99.0 %	99.2 %



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

Re. 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 (PO ₄)	0.001% max.	<0.001%
Potassium (K)	0.005% max.	0.003%
Silica (SiO ₂)	0.005% max.	<0.005%
Sulfur compounds (as SO ₄)	0.003% max.	<0.003%

Joe Schoellkopf

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.

Form number: 00005624CA, Rev. 2.0

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 (Na ₂ B ₄ O ₇ • 10H ₂ O)	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 (PO ₄)	0.001% max.	<0.001%
Sulfate (SO ₄)	0.005% max.	<0.005%

Joe Schoellkopf

Quality Control Manager

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EMD Millipore Corporation

400 Summit Drive
Burlington, MA 01803
U.S.A.

Form number: 00005624CA, Rev. 2.0



Certificate of Analysis

1 Reagent Lane
Fair Lawn, NJ 07410
201.796.7100 tel
201.796.1329 fax

Thermo Fisher Scientific's Quality System has been found to conform to Quality Management System
Standard ISO9001:2015 by SAI Global Certificate Number CERT – 0120632

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Catalog Number	D16	Quality Test / Release Date	03/19/2019
Lot Number	186122A		
Description	DEXTROSE, ANHYDROUS, A.C.S.		
Country of Origin	United States	Suggested Retest Date	Mar/2022
Chemical Origin	Organic - Plant		
BSE/TSE Comment	No animal products are used as starting raw material ingredients, or used in processing, including lubricants, processing aids, or any other material that might migrate to the finished product.		
Chemical Comment			

N/A			
Result Name	Units	Specifications	Test Value
APPEARANCE		REPORT	White, granular powder
TITRATABLE ACID	MEQ/G	<= 0.002	<0.002
STARCH		= PASS TEST	pass test
SPECIFIC ROTATION @ 25 C	DEGREES (+ OR -)	Inclusive Between +52.5 - +53.0	53.0
SULFATE & SULFITE	%	<= 0.005	<0.005
IRON (Fe)	ppm	<= 5	<5
CHLORIDE	%	<= 0.01	<0.01
IGNITION RESIDUE	%	<= 0.02	<0.02
IDENTIFICATION	PASS/FAIL	= PASS TEST	pass test
HEAVY METALS (as Pb)	ppm	<= 5	<5
LOSS ON DRYING @ 105 C	%	<= 0.2	<0.2
INSOLUBLE MATTER	%	<= 0.005	0.002

Jerisa 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.

Sulfuric Acid
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis
Low Selenium

avantor™



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 ₂ SO 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 SO ₂)	≤ 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™**

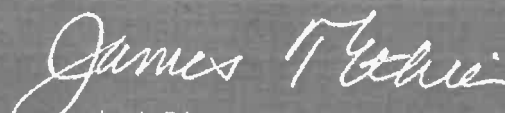


Material No.: 9673-33
Batch No.: 23D2462010

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


Jamie Ethier
Vice President Global Quality

3050 Spruce Street, Saint Louis, MO 63103, USA

Website: www.sigmaaldrich.comEmail USA: techserv@sial.comOutside USA: eurtechserv@sial.com

Certificate of Analysis

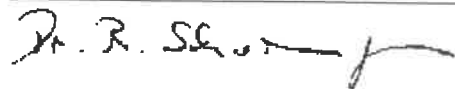
Product Name:

Hydrazine sulfate salt - ACS reagent, $\geq 99.0\%$

Product Number: 216046
Batch Number: BCKK9980
Brand: SIAL
CAS Number: 10034-93-2
Formula: $\text{H}_4\text{N}_2 \cdot \text{H}_2\text{SO}_4$
Formula Weight: 130,12 g/mol
Quality Release Date: 13 OCT 2023

 $\text{NH}_2\text{NH}_2 \cdot \text{H}_2\text{SO}_4$

Test	Specification	Result
Appearance (Color)	White	White
Appearance (Form)	Powder or Crystals or Chunk(s)	Crystals
Redox Titration	$\geq 99.0 \%$	99.4 %
With Iodine		
Residue on Ignition	$\leq 0.05 \%$	0.01 %
Infrared Spectrum	Conforms to Structure	Conforms
Meets ACS Requirements	Corresponds to Requirements	Corresponds
ACS Specifications	Corresponds to Requirements	Corresponds
Heavy Metals $\leq 0.002 \%$ (as Pb),		
Insoluble Matter $\leq 0.005 \%$ (C= 6.67%, H ₂ O)		
Iron (Fe)	$\leq 10 \text{ mg/kg}$	$< 10 \text{ mg/kg}$
Chloride (Cl)	$\leq 50 \text{ mg/kg}$	$< 50 \text{ mg/kg}$



Dr. Reinhold Schwenninger
Quality Assurance
Buchs, Switzerland CH

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

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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.

**RICCA CHEMICAL COMPANY®**

1490 Lammers Pike

Batesville, IN 47006

<http://www.riccachemical.com>

1-888-GO-RICCA

customerservice@riccachemical.com

Certificate of Analysis

W3093
094121
04/03/2024
16

Buffer, Reference Standard, pH 7.00 ± 0.01 at 25°C (Color Coded Yellow)**Lot Number:** 4401F99**Product Number:** 1551**Manufacture Date:** JAN 08, 2024**Expiration Date:** DEC 2025

The certified value for this product is confirmed in independent testing by a second qualified chemist.

The NIST traceable pH value is certified to ±0.01 at 25 °C only. All other pH values at their corresponding temperatures are accurate to ± 0.05.

°C	0	5	10	15	20	25	30	35	40	45	50
pH	7.12	7.09	7.06	7.04	7.02	7.00	6.99	6.98	6.98	6.97	6.97

Name	CAS#	Grade
Water	7732-18-5	ACS/ASTM/USP/EP
Sodium Phosphate Dibasic	7558-79-4	ACS
Potassium Dihydrogen Phosphate	7778-77-0	ACS
Preservative	Proprietary	
Yellow Dye	Proprietary	
Sodium Hydroxide	1310-73-2	

Test	Specification	Result
Appearance	Yellow liquid	Passed

*Not a certified value.

Test	Certified Value	Uncertainty	NIST SRM#
pH at 25°C (Method: SQCP027, SQCP033)	7.004	0.02	186-I-g, 186-II-g, 191d

Specification	Reference
Commercial Buffer Solutions	ASTM (D 1293 B)
Buffer A	ASTM (D 5464)
Buffer A	ASTM (D 5128)

pH measurements were performed in our Batesville, IN laboratory under ISO/IEC 17025 accreditation (ANAB Certificate L2387.02) and are certified traceable to National Institute of Standards and Technology (NIST) Standard Reference Material as indicated above via an unbroken chain of comparisons. The uncertainty is calculated from the uncertainty of the measurement variation from sample to sample, the uncertainty in the NIST Standard Reference Material, and the uncertainty of the measurement process. The uncertainty is multiplied by k=2, corresponding to 95% coverage in a normal distribution. Volumetric glassware complies with Class A tolerance requirements of ASTM E 288 and NIST Circular 434; it is calibrated before first use and recalibrated regularly in accordance with ASTM E 542 and NIST Procedure NBSIR 74-461. Balances are calibrated regularly with weights certified traceable to the NIST national mass standard. Thermometers and temperature probes are calibrated before first use and recalibrated regularly with a thermometer traceable to NIST standards. All products are prepared according to master documents that assure manufacture according to validated methods. Batch records document raw material traceability and production and testing history for each lot manufactured.

Part Number	Size / Package Type	Shelf Life (Unopened Container)
1551-1	4 L natural poly	24 months
1551-1CT	4 L Cubitainer®	24 months
1551-2.5	10 L Cubitainer®	24 months
1551-5	20 L Cubitainer®	24 months

Recommended Storage: 15°C - 30°C (59°F - 86°F)



Paul Brandon (01/08/2024)

Production Manager

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Contents of Certificates and Labels."

This product was tested in an ISO 17025 Accredited Laboratory

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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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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-CI 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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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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Sodium Hydroxide (Pellets)

Material: 0583
Grade: ACS GRADE
Batch Number: 23B1556310

Chemical Formula: NaOH
Molecular Weight: 40
CAS #: 1310-73-2
Appearance:
Manufacture Date: 12/14/2022
Expiration Date: 12/31/2025
Storage: Room Temperature

Pellets

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	Additional Information
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	Analysis may have been rounded to significant digits in specification limits. Product meets analytical specifications of the grades listed.



Sodium Hydroxide (Pellets)

Material: 0583
Grade: ACS GRADE
Batch Number: 23B1556310

Chemical Formula: NaOH
Molecular Weight: 40
CAS #: 1310-73-2
Appearance:

Manufacture Date: 12/14/2022
Expiration Date: 12/31/2025

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.

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

*Certificate of Analysis*

Page 1

COMMODITY: **StablCal|sup|TS|sup Standard, 10 NTU**COMMODITY NUMBER: **2659949**

MANUFACTURE DATE:

LOT NUMBER: **A4151****6/4/2024**

DATE OF ANALYSIS:

6/7/2024

<i>TEST</i>	<i>SPECIFICATIONS</i>	<i>RESULTS</i>
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
Analytical Services Chemist

Item Number	ED150	Lot Number	2ND0156
Item	Edetate Disodium, Dihydrate, USP	CAS Number	6381-92-6
Molecular Formula	C ₁₀ H ₁₄ N ₂ Na ₂ O ₈ •2H ₂ O	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) ₃ N]		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.

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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.



An ISO 9001 Certified Company

Loveland, CO 80539

(970) 669-3050

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*

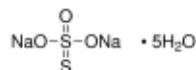
Analytical Services Chemist

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	Confirmed	Confirmed
Confirms Sodium and Sulfur Components		
Titration by Iodine	99.5 - 101.0 %	100.2 %
pH	6.0 - 8.4	6.1
c = 5%; Water; At 25 Deg C		
Insoluble Matter	≤ 0.005 %	< 0.001 %
c = 10%; Water		
Nitrogen Compounds	≤ 0.002 %	< 0.002 %
Sulfate & Sulfite (as SO ₄)	≤ 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.





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-CI 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-CI 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)

A handwritten signature in blue ink that reads "Paul Brandon". The signature is fluid and cursive, with the first name "Paul" and last name "Brandon" clearly distinguishable.

Paul Brandon (08/28/2024)
Production Manager

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Certificate of Analysis

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 – 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 84I



Harout Sahagian - Quality Control Manager - Fair Lawn

Note: The data listed is valid for all package sizes of this lot of this product, expressed as an extension of this catalog number listed above.
If there are any questions with this certificate, please call at (800) 227-6701.

*Based on suggested storage condition.



Certificate of Analysis

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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W3163 Rec. on 12/10/24 by IZ

Certificate of Analysis



Material BDH9284-2.5KG
Material Description BDH SODIUM CARB ANHYD ACS 2.5KG
Grade U S P REAGENT (ACS GRADE)

Batch 24E3156178
Reassay Date 09/30/2027
CAS Number 497-19-8
Molecular Formula Na₂CO₃
Molecular Mass 105.99

Date of Manufacture 09/01/2023
Storage Room Temperature
Material is hygroscopic. Protect from Moisture.
Additional Product Description:

Characteristics	Specifications	Measured Values
Appearance	Fine white granular powder	Fine white granular powder
Calcium	<= 0.03 %	0.003 %
Chloride	<= 0.001 %	0.0003 %
Heavy Metals (as Pb)	<= 0.0005 %	0.0001 %
Insolubles	<= 0.01 %	0.001 %
Iron	<= 0.0005 %	0.0001 %
Loss on Heating	<= 1.0 %	0.03 %
Magnesium	<= 0.005 %	0.001 %
Phosphate	<= 0.001 %	0.001 %
Potassium	<= 0.005 %	0.003 %
Purity	>= 99.5 %	100.0 %
Silica	<= 0.005 %	0.001 %
Sulfur Compounds	<= 0.003 %	0.002 %
Extra Description:	Meets Reagent Specifications for testing USP/NF monographs	

Internal ID #: 710

Signature	Additional Information
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	Analysis may have been rounded to significant digits in specification limits Product meets analytical specifications of the grades listed.

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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**RICCA CHEMICAL COMPANY®**

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Pocomoke City, MD 21851
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customerservice@riccachemical.com

Certificate of Analysis

W21758 58

Buffer, Reference Standard, pH 4.00 ± 0.01 at 25°C (Color Coded Red)

Lot Number: 2411A93

Product Number: 1501

Manufacture Date: NOV 04, 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	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)	4.008	0.02	185i, 186-I-g, 186-II-g

Specification	Reference
Commercial Buffer Solutions	
Buffer B	ASTM (D 1293 B)
Buffer B	ASTM (D 5464)
Buffer B	ASTM (D 5128)

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)
1501-16	500 mL natural poly	24 months
1501-2.5	10 L Cubitainer®	24 months
1501-5	20 L Cubitainer®	24 months

Recommended Storage: 15°C - 30°C (59°F - 86°F)



Refine your results. Redefine your industry.

Certificate of Analysis

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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).



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, NNO ₃ -	25.00 ± 0.10 µg/mL
Nitrite as N, NNO ₂ -	30.00 ± 0.10 µg/mL	o-Phosphate as P, PPO ₄	50.00 ± 0.18 µg/mL
Sulfate, SO ₄	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	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:

$$X_{CRM/RM} = \sum(w_i)(X_i)$$

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:

$$w_i = (1/u_{char i}^2) / (\sum(1/u_{char i}^2))$$

$$CRM/RM \text{ Expanded Uncertainty } (\pm) = U_{CRM/RM} = k(u_{char}^2 + u_{bb}^2 + u_{lts}^2 + u_{ts}^2)^{1/2}$$

k = coverage factor = 2

$u_{char} = [\sum(w_i)^2(u_{char i}^2)]^{1/2}$ 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

$$CRM/RM \text{ Expanded Uncertainty } (\pm) = U_{CRM/RM} = k(u_{char a}^2 + u_{bb}^2 + u_{lts}^2 + u_{ts}^2)^{1/2}$$

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](https://www.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





RICCA CHEMICAL COMPANY®

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Certificate of Analysis

Buffer, Reference Standard, pH 10.00 ± 0.01 at 25°C (Color Coded Blue)

Lot Number: 2410F80

Product Number: 1601

Manufacture Date: OCT 09, 2024

Expiration Date: MAR 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	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

Test	Certified Value	Uncertainty	NIST SRM#
pH at 25°C (Method: SQCP027, SQCP033)	10.009	0.02	186-I-g, 186-II-g, 191d

Specification	Reference
Commercial Buffer Solutions	
Buffer C	ASTM (D 1293 B)
Buffer C	ASTM (D 5464)
	ASTM (D 5128)

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)
1601-1	4 L natural poly	18 months
1601-16	500 mL natural poly	18 months
1601-1CT	4 L Cubitainer®	18 months
1601-2.5	10 L Cubitainer®	18 months
1601-32	1 L natural poly	18 months
1601-5	20 L Cubitainer®	18 months

Version: 1.3

Lot Number: 2410F80

Product Number: 1601

Page 1 of 2

Certificate of Analysis



Material	BDH9208-500G
Material Description	BDH AMMONIUM CHLORIDE ACS 500G
Grade	U S P REAGENT (ACS GRADE)
Batch	24L0356561
Reassay Date	08/31/2027
CAS Number	12125-02-9
Molecular Formula	NH ₄ Cl
Molecular Mass	53.49
Date of Manufacture	08/01/2024
Storage	Room Temperature

Characteristics	Specifications	Measured Values
Appearance	White granular powder	White granular powder
Calcium	<= 0.001 %	0.001 %
Heavy Metals (as Pb)	<= 0.0005 %	<0.0002 %
Insolubles	<= 0.005 %	0.001 %
Iron	<= 0.0002 %	<0.0002 %
Magnesium	<= 0.0005 %	0.0001 %
pH (5%, Water) @25C	4.5 - 5.5	4.8
Phosphate	<= 0.0002 %	<0.0002 %
Purity	>= 99.5 %	99.8 %
Residue on Ignition	<= 0.01 %	0.003 %
Sulfate	<= 0.002 %	<0.002 %
Extra Description:	Meets Reagent Specifications for testing USP/NF monographs	

Internal ID #: 710

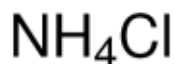
Signature	Additional Information
We certify that this batch conforms to the specifications listed above. This document has been electronically produced and is valid without a signature. Leona Edwardson, Quality Control Sr. Manager - Solon VWR Chemicals, LLC. 28600 Fountain Parkway, Solon OH 44139 USA	Analysis may have been rounded to significant digits in specification limits Product meets analytical specifications of the grades listed.

W3196 Received on 03/19/2025 by IZ

Certificate of Analysis

Product Name:

Ammonium chloride - ACS reagent, ≥99.5%



Product Number: 213330
Batch Number: MKCV1009
Brand: SIGALD
CAS Number: 12125-02-9
MDL Number: MFCD00011420
Formula: H4ClN
Formula Weight: 53.49 g/mol
Quality Release Date: 23 OCT 2023
Recommended Retest Date: SEP 2026

Test	Specification	Result
Appearance (Color)	White	White
Appearance (Form)	Powder or Crystals or Chunk(s)	Crystals
Titration by AgNO ₃	≥ 99.5 %	100.2 %
pH	4.5 - 5.5	4.9
@ 25 Deg c (5% Solution)		
Insoluble Matter	≤ 0.005 %	0.001 %
10%, H ₂ O		
Residue on ignition (Ash)	≤ 0.01 %	< 0.01 %
Calcium (Ca)	≤ 0.001 %	< 0.001 %
Magnesium (Mg)	≤ 5 ppm	1 ppm
Heavy Metals	≤ 5 ppm	< 1 ppm
by ICP		
Iron (Fe)	≤ 2 ppm	< 1 ppm
Phosphate (PO ₄)	≤ 2 ppm	< 2 ppm
Sulfate (SO ₄)	≤ 0.002 %	< 0.002 %
Meets ACS Requirements	Current ACS Specification	Conforms
Recommended Retest Period	-----	-----
3 Years		



Larry Coers, Director

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

Product Number: 213330
Batch Number: MKCV1009

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.



Ident	Instrument IC-1				Analyst: NF		Method: 300.0 / 9056A		Initial Analyst		
	Con F-	Con CL-	Con NO2	Con BR-	Con NO3	Con HPO4	Con SO4				
STD1	0	0	0	0	0	0	0	0	IC1-032125	3/21/2025 10:45	10 NF/IZ
STD2	0.421	0.619	0.631	2.075	0.523	1.052	3.247	IC1-032125	3/21/2025 11:07	10 NF/IZ	
STD3	0.795	1.199	1.203	3.994	1.001	1.993	5.998	IC1-032125	3/21/2025 11:28	10 NF/IZ	
STD4	0.977	1.475	1.468	4.904	1.226	2.407	7.216	IC1-032125	3/21/2025 11:50	10 NF/IZ	
STD5	1.993	3.009	2.995	10.03	2.493	4.968	14.842	IC1-032125	3/21/2025 12:11	10 NF/IZ	
STD6	4.034	5.988	5.986	19.975	5.011	10.256	30.502	IC1-032125	3/21/2025 12:32	10 NF/IZ	
STD7	4.979	7.51	7.517	25.022	6.247	12.323	36.695	IC1-032125	3/21/2025 12:54	10 NF/IZ	
ICV	2.031	3.038	3.08	10.364	2.568	5.199	15.269	IC1-032125	3/21/2025 13:37	10 NF/IZ	
ICB	0	0.122	0.08	0	0	0	0	IC1-032125	3/21/2025 13:58	10 NF/IZ	
CCV	2.034	3.119	3.093	10.383	2.559	5.188	15.179	IC1-032125	4/3/2025 9:38	10 NF/IZ	
CCB	0	0	0	0	0	0	0	IC1-032125	4/3/2025 9:59	10 NF/IZ	
LB135296BSW	2.028	3.121	3.103	10.387	2.561	5.226	15.185	IC1-032125	4/3/2025 10:43	10 NF/IZ	
LB135296BLW	0	0	0	0	0	0	0	IC1-032125	4/3/2025 11:04	10 NF/IZ	
Q1711-01	0.332	26.59	0	0.215	0	2.108	10.666	IC1-032125	4/3/2025 12:29	10 NF/IZ	
Q1711-02MS	2.301	28.881	3.076	10.43	2.571	2.367	24.892	IC1-032125	4/3/2025 12:50	10 NF/IZ	
Q1711-03MSD	2.172	28.857	2.983	10.101	2.479	1.573	24.485	IC1-032125	4/3/2025 13:12	10 NF/IZ	
Q1711-04	0.275	20.1	0	0.221	0	0	4.529	IC1-032125	4/3/2025 13:55	10 NF/IZ	
Q1711-08	0	0.047	0	0	0	0	0	IC1-032125	4/3/2025 14:16	10 NF/IZ	
Q1716-01	0.433	427.687	0	0.63	0.296	0	54.697	IC1-032125	4/3/2025 14:38	10 NF/IZ	
Q1711-01DLX10	0.054	2.364	0	0	0	0	1.413	IC1-032125	4/3/2025 14:59	10 NF/IZ	
Q1711-04DLX5	0.071	3.687	0	0	0	0	1.238	IC1-032125	4/3/2025 15:21	10 NF/IZ	
CCV	2.072	3.107	3.112	10.418	2.589	5.237	15.386	IC1-032125	4/3/2025 15:43	10 NF/IZ	
CCB	0	0	0	0	0	0	0	IC1-032125	4/3/2025 17:16	10 NF/IZ	



Material
Material Description
Grade

BDH9312-2.5KG
COPPER SULFATE CRYST 2500GM
U S P REAGENT (ACS GRADE)

Batch
Reassay Date
CAS Number
Molecular Formula
Molecular Mass

24H0956271
05/31/2027
7758-99-8
CuSO4.5H2O
249.68

Date of Manufacture
Storage

05/01/2024
Room Temperature

Characteristics	Specifications	Measured Values
Appearance	Blue crystals	Blue crystals
Calcium	<= 0.005 %	0.003 %
Chloride	<= 0.001 %	0.0001 %
Insolubles	<= 0.005 %	0.001 %
Iron	<= 0.003 %	0.001 %
Nickel	<= 0.005 %	0.003 %
Nitrogen Compounds (as N)	<= 0.002 %	0.001 %
Potassium	<= 0.01 %	0.0004 %
Purity	98.0 - 102.0 %	99.7 %
Sodium	<= 0.02 %	0.003 %

Extra Description: Meets Reagent Specifications for testing USP/NF monographs

CUSTOMER PART# BDH9312-2.5KG

Internal ID #: 793

Signature	Additional Information
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	Analysis may have been rounded to significant digits in specification limits Product meets analytical specifications of the grades listed.



Certificate of Analysis

Buffer, Reference Standard, pH 12.00 ± 0.01 at 25°C**Lot Number:** 2504F20**Product Number:** 1615**Manufacture Date:** APR 08, 2025**Expiration Date:** SEP 2026

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 (from 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)	12.009	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
1615-5	20 L Cubitainer®	18 months

Recommended Storage: 15°C - 30°C (59°F - 86°F)



Jose Pena (04/08/2025)
Operations Manager

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.

N3212 Received on 5/21/25 by 12



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 132409 • Mfg. Date: 09/2024 • Exp. Date: 09/2026

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 4.00×10^9 cfu/g.

GLUCOSE/GLUTAMIC-ACID RESULTS:

Tested results within acceptable range 198 ± 30.5 mg/L (167.5 - 228.5 mg/L). GGA Lot# 43100020 – Average Test Result: 202.1

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 ensure that the Finished Product conforms to the above specification.

Signature: _____

Quality Control Department

Date: 09/13/2024

POLYSEED.Ref.1.19

Revised Jan 24



SHIPPING DOCUMENTS

CLIENT INFORMATION

REPORT TO BE SENT TO:
COMPANY: LKB ENGINEERING, PLLC
ADDRESS: 1 AERIAL WAY
CITY: SYOSSET STATE: NY ZIP: 11791
ATTENTION: JOHN GERLACH
PHONE: 46-210-8931 FAX:

CLIENT PROJECT INFORMATION

PROJECT NAME: ANSONIA LANDFILL
PROJECT NO.: 0774-08 LOCATION: CT
PROJECT MANAGER: JOHN GERLACH
e-mail: jgerlach@LKB-ENGINEERING.COM
PHONE: SAME FAX:

CLIENT BILLING INFORMATION

BILL TO: LKB ENGINEERING, PLLC PO#: N/A for lab
ADDRESS: SAME
CITY: STATE: ZIP:
ATTENTION: SHARON F. PHONE:

ANALYSIS

DATA TURNAROUND INFORMATION

FAX (RUSH) _____ DAYS*
HARDCOPY (DATA PACKAGE): STD. _____ DAYS*
EDD: _____ DAYS*
*TO BE APPROVED BY CHEMTECH
STANDARD HARDCOPY TURNAROUND TIME IS 10 BUSINESS

DATA DELIVERABLE INFORMATION

☐ Level 1 (Results Only) ☐ Level 4 (QC + Full Raw Data)
☒ Level 2 (Results + QC) ☐ NJ Reduced ☐ US EPA CLP
☐ Level 3 (Results + QC) ☐ NYS ASP A ☐ NYS ASP B
+ Raw Data ☐ Other
☒ EDD FORMAT: NYSDEC

VOC: SEE BOTTLE ORDER # B2506013
1. 2. 3. 4. 5. 6. 7. 8. 9.

PRESERVATIVES

COMMENTS

ALLIANCE SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE		SAMPLE COLLECTION		# OF BOTTLES	PRESERVATIVES									COMMENTS	
			COMP	GRAB	DATE	TIME		A/E	E	+ OTHER AS APPROPRIATE								
										1	2	3	4	5	6	7		8
1.	MW-1	GW		X	6/16/25	9:30A	10		X									} SAMPLES FOR DISS. Fe + Mn / FILTERED IN FIELD.
2.	MW-3			X		10:30A	10		X									
3.	MW-4			X		11:00A	10		X									
4.	MW-2			X		12:00P	10		X									
5.	TRIP-BLANK	DI		X			2	X										
6.																		
7.																		
8.																		
9.																		
10.																		

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER: 1. [Signature]	DATE/TIME: 1147 6-17-25	RECEIVED BY: 1. [Signature]	1147 6-17-25	Conditions of bottles or coolers at receipt: ☐ COMPLIANT ☐ NON COMPLIANT ☐ COOLER TEMP 2.6 °C
RELINQUISHED BY SAMPLER: 2. [Signature]	DATE/TIME:	RECEIVED BY: 2. [Signature]		Comments:
RELINQUISHED BY SAMPLER: 3. [Signature]	DATE/TIME: 608 6-7-25	RECEIVED BY: 3. [Signature]		CLIENT: ☐ Hand Delivered ☐ Other

Page ____ of ____

Shipment Complete
☐ YES ☐ NO

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

LOGIN REPORT/SAMPLE TRANSFER

Order ID : Q2344 LOCK01

Order Date : 6/17/2025 11:52:00 AM

Project Mgr :

Client Name : Lockwood, Kessler & Bartl

Project Name : Ansonia Landfill 2025

Report Type : ~~NYS ASPB~~ Level 2 *dp*

Client Contact : John Gerlach

Receive DateTime : 6/17/2025 12:00:00 AM

EDD Type : EXCEL NOCLEANUP

Invoice Name : Lockwood, Kessler & Bartl

Purchase Order :

16:05 *RA*

Hard Copy Date :

Invoice Contact : John Gerlach

Date Signoff :

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
Q2344-01	MW-1	Water	06/17/2025	09:30					
					VOCMS Group1		8260-Low	10 Bus. Days	
Q2344-03	MW-3	Water	06/17/2025	10:30					
					VOCMS Group1		8260-Low	10 Bus. Days	
Q2344-05	MW-4	Water	06/17/2025	11:00					
					VOCMS Group1		8260-Low	10 Bus. Days	
Q2344-07	MW-2	Water	06/17/2025	12:00					
					VOCMS Group1		8260-Low	10 Bus. Days	
Q2344-09	TRIP-BLANK	Water	06/17/2025	00:00					
					VOCMS Group1		8260-Low	10 Bus. Days	

Relinquished By : *OP*

Date / Time :

6/18/25 9:30

Received By : *Sam*

Date / Time :

06/18/25 9:30 *ng 4*

Storage Area : VOA Refridgerator Room