

DATA PACKAGE GENERAL CHEMISTRY

PROJECT NAME : NJ SOIL PT

ALLIANCE TECHNICAL GROUP, LLC - NEWARK

284 Sheffiled Stree

Suite 1

Mountainside, NJ - 07092

Phone No: 908-789-8900

ORDER ID : Q3483

ATTENTION : Mohammad Ahmed



Laboratory Certification ID # 20012



1) GENERAL CHEMISTRY DATA	2
2) Signature Page	4
3) Case Narrative	5
4) Qualifier Page	7
5) Conformance/Non Conformance	8
6) QA Checklist	9
7) Chronicle	10
8) Sample Data	13
8.1) HW1025-PT-AN-SOIL	14
8.2) HW1025-PT-AN-SOILDL	15
8.3) HW1025-PT-CORR-SOIL	16
8.4) HW1025-PT-CN-SOIL	17
8.5) HW1025-PT-CN-SOILDL	18
8.6) HW1025-PT-CN-SOIL	19
8.7) HW1025-PT-CN-SOILDL	20
8.8) HW1025-PT-FP-SOIL	21
8.9) HW1025-PT-CR6-SOIL	22
8.10) HW1025-PT-CR6-SOILDL	23
8.11) HW1025-PT-NUT-SOIL	24
8.12) HW1025-PT-NUT-SOILDL	25
8.13) HW1025-PT-NUT-SOIL	26
8.14) HW1025-PT-OGR-SOIL	27
8.15) HW1025-PT-SOL-SOIL	28
8.16) HW1025-PT-NO2-SOIL	29
8.17) HW1025-PT-NO2-SOILDL	30
9) QC Data Summary For Genchem	31
9.1) Initial and Continuing Calibration Verification	32
9.2) Initial and Continuing Calibration Blank Summary	43
9.3) Preparation Blank Summary	52
9.4) Matrix Spike Summary	53
9.5) Duplicate Sample Summary	58
9.6) Laboratory Control Sample Summary	64
10) GENCHEM RAW DATA	75
10.1) GENCHEM RAW DATA - ANALYTICAL	76
10.1.1) LB137711	76

Table Of Contents for Q3483

10.1.2) LB137754	78
10.1.3) LB137764	81
10.1.4) LB137765	84
10.1.5) LB137781	87
10.1.6) LB137852	89
10.1.7) LB137870	93
10.1.8) LB137971	98
10.1.9) LB137983	125
10.1.10) LB137984	140
10.1.11) LB138015	154
10.1.12) LB138042	156
10.1.13) LB138048	158
10.2) GENCHEM RAW DATA - PREP	160
10.2.1) PB170388	160
10.2.2) PB170389	163
10.2.3) PB170467	166
10.2.4) PB170482	169
10.2.5) PB170673	172
10.2.6) PB170734	175
11) Analytical Runlogs	178
12) Standard Prep Logs	199
13) Percent Solid	342
14) Shipping Document	352
14.1) Chain Of Custody	353
14.2) Lab Certificate	355

Cover Page

Order ID : Q3483

Project ID : NJ Soil PT

Client : Alliance Technical Group, LLC - Newark

Lab Sample Number

Q3483-01
Q3483-02
Q3483-03
Q3483-04
Q3483-05
Q3483-06
Q3483-07
Q3483-08
Q3483-09
Q3483-10
Q3483-11
Q3483-12
Q3483-13
Q3483-14
Q3483-15
Q3483-16
Q3483-17
Q3483-18
Q3483-19
Q3483-20
Q3483-21
Q3483-22
Q3483-23
Q3483-24
Q3483-25

Client Sample Number

HW1025-PT-AN-SOIL
HW1025-PT-CORR-SOIL
HW1025-PT-CN-SOIL
HW1025-PT-CN-SOIL
HW1025-PT-FP-SOIL
HW1025-PT-CR6-SOIL
HW1025-PT-NUT-SOIL
HW1025-PT-NUT-SOIL
HW1025-PT-OGR-SOIL
HW1025-PT-MET-SOIL
HW1025-PT-BNA-SOIL
HW1025-PT-TRIAZINE-SOIL
HW1025-PT-PAH-SOIL
HW1025-PT-DIES-SOIL
HW1025-PT-GAS-SOIL
HW1025-PT-NJEPH-SOIL
HW1025-PT-HERB-SOIL
HW1025-PT-PCB-SOIL
HW1025-PT-PCBO-SOIL
HW1025-PT-PEST-SOIL
HW1025-PT-CHLOR-SOIL
HW1025-PT-TXP-SOIL
HW1025-PT-VOA-SOIL
HW1025-PT-SOL-SOIL
HW1025-PT-NO2-SOIL

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: 11/28/2025

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012



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

CASE NARRATIVE

Alliance Technical Group, LLC - Newark

Project Name: NJ Soil PT

Project # N/A

Order ID # Q3483

Test Name: Ammonia, Anions Group1, Anions Group2, Corrosivity, Cyanide, Flash Point, Hexavalent Chromium, Oil and Grease, Phosphorus, Total, TKN, TOC, TS

A. Number of Samples and Date of Receipt:

11 Solid samples were received on 10/29/2025.

B. Parameters:

According to the Chain of Custody document, the following analyses were requested: Ammonia, Anions Group1, Anions Group2, Corrosivity, Cyanide, Flash Point, Hexavalent Chromium, Oil and Grease, Phosphorus, Total, TKN, TOC, TS. This data package contains results for Ammonia, Anions Group1, Anions Group2, Corrosivity, Cyanide, Flash Point, Hexavalent Chromium, Oil and Grease, Phosphorus, Total, TKN, TOC, TS.

C. Analytical Techniques:

The analysis of Flash Point was based on method 1010B, The analysis of Hexavalent Chromium was based on method 7196A, The analysis of Cyanide was based on method 9012B, The analysis of Cyanide was based on method 9014, The analysis of Corrosivity was based on method 9045D, The analysis of Anions Group1, Anions Group2 was based on method 9056A, The analysis of TOC was based on method 9060A, The analysis of Oil and Grease was based on method 9071B, The analysis of TOC was based on method Lloyd Kahn, The analysis of TS was based on method SM2540 B, The analysis of TKN was based on method SM4500 N Org B or C and The analysis of Ammonia was based on method SM4500-NH3.

D. QA/ QC Samples:

The Holding Times were met for all analysis.

Sample HW1025-PT-AN-SOIL was diluted due to high concentrations for Chloride, Nitrate, Sulfate & Sample HW1025-PT-CN-SOIL was diluted due to high concentrations for Cyanide & Sample HW1025-PT-CN-SOIL was diluted due to high concentrations for Cyanide & Sample HW1025-PT-CR6-SOIL was diluted due to high concentrations for Hexavalent Chromium & Sample HW1025-PT-NUT-SOIL was diluted due to high concentrations for Ammonia as N, TKN, Phosphorus, Total & Sample HW1025-PT-NO2-SOIL was diluted due to high concentrations for Nitrite.

The Blank Spike met requirements for all compounds.

The Duplicate analysis met criteria for all compounds.

The Matrix Spike (SED-2MS) analysis met criteria for all compounds except for TKN due to Sample matrix interference.



The Matrix Spike Duplicate (SED-2MSD) analysis met criteria for all compounds except for TKN due to Sample matrix interference.

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

The Calibration met the requirements.

E. Additional Comments:

Lab has used least representable sample weight for the sample Q3483-07 and Q3483-08 for TOC analysis. Therefore Lab has reported the TOC result with "OR" qualifier.

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

GENERAL CHEMISTRY CONFORMANCE/NON-CONFORMANCE SUMMARY

ORDER ID: Q3483

MATRIX: Solid

METHOD:

1010B,365.3,7196A,9012B,9014,9045D,9056A,9060A,9071B,Lloyd Kahn,SM2540 B,SM4500 N Org B or C,SM4500-NH3

	NA	NO	YES
1. Blank Contamination - If yes, list compounds and concentrations in each blank:		✓	
2. Matrix Spike Duplicate Recoveries Met Criteria		✓	
If not met, list those compounds and their recoveries which fall outside the acceptable range.			
The Blank Spike met requirements for all compounds. The Matrix Spike (SED-2MS) analysis met criteria for all compounds except for TKN due to Sample matrix interference. The Matrix Spike Duplicate (SED-2MSD) analysis met criteria for all compounds except for TKN due to Sample matrix interference.			
3. Sample Duplicate Analysis Met QC Criteria			✓
If not met, list those compounds and their recoveries which fall outside the acceptable range.			
4. Digestion Holding Time Met			✓
If not met, list number of days exceeded for each sample:			
The Holding Times were met for all analysis.			

ADDITIONAL COMMENTS:

Lab has used least representable sample weight for the sample Q3483-07 and Q3483-08 for TOC analysis. Therefore Lab has reported the TOC result with "OR" qualifier.

QA REVIEW_____
Date

APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: Q3483

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 Custody

✓

Were the samples received within hold time

✓

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

✓

ANALYTICAL:

Was method requirement followed?

✓

Was client requirement followed?

✓

Does the case narrative summarize all QC failure?

✓

All runlogs and manual integration are reviewed for requirements

✓

All manual calculations and /or hand notations verified

✓

QA Review Signature: SOHIL JODHANI

Date: 11/28/2025

LAB CHRONICLE

OrderID:	Q3483	OrderDate:	10/29/2025 2:32:00 PM
Client:	Alliance Technical Group, LLC - Newark	Project:	NJ Soil PT
Contact:	Mohammad Ahmed	Location:	QA Office, VOA Lab

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q3483-01	HW1025-PT-AN-SOIL	SOIL	Anions Group1	9056A	10/27/25 10:00		11/19/25 11:19	10/29/25
Q3483-01DL	HW1025-PT-AN-SOIL DL	SOIL	Anions Group1	9056A	10/27/25 10:00		11/19/25 12:24	10/29/25
Q3483-02	HW1025-PT-CORR-SOIL	SOIL	Corrosivity	9045D	10/27/25 10:00		11/05/25 09:00	10/29/25
Q3483-03	HW1025-PT-CN-SOIL	SOIL	Cyanide	9012B	10/27/25 10:00	11/04/25	11/04/25 15:30	10/29/25
Q3483-03DL	HW1025-PT-CN-SOIL DL	SOIL	Cyanide	9012B	10/27/25 10:00	11/04/25	11/04/25 15:30	10/29/25
Q3483-04	HW1025-PT-CN-SOIL	SOIL	Cyanide	9014	10/27/25 10:00	11/04/25	11/04/25 16:21	10/29/25
Q3483-04DL	HW1025-PT-CN-SOIL DL	SOIL	Cyanide	9014	10/27/25 10:00	11/04/25	11/04/25 16:21	10/29/25

LAB CHRONICLE

Q3483-05	HW1025-PT-FP-SOIL	SOIL			10/27/25		10/29/25
			Flash Point	1010B	10:00	11/25/25 11:45	
Q3483-06	HW1025-PT-CR6-SOIL	SOIL			10/27/25		10/29/25
			Hexavalent Chromium	7196A		11/26/25 11/26/25 14:47	
Q3483-06DL	HW1025-PT-CR6-SOIL DL	SOIL			10/27/25		10/29/25
			Hexavalent Chromium	7196A		11/26/25 11/26/25 14:51	
Q3483-07	HW1025-PT-NUT-SOI L	SOIL			10/27/25		10/29/25
			Ammonia	SM4500-NH3		11/10/25 11/11/25 12:18	
			Phosphorus, Total	365.3		11/21/25 11/21/25 13:42	
			TKN	SM4500-N Org C-11 plus NH3 B plus G-11		11/11/25 11/12/25 12:05	
			TOC	9060A		11/20/25 11:34	
Q3483-07DL	HW1025-PT-NUT-SOI LDL	SOIL			10/27/25		10/29/25
			Ammonia	SM4500-NH3		11/10/25 11/11/25 13:16	
			Phosphorus, Total	365.3		11/21/25 11/21/25 13:43	
			TKN	SM4500-N Org C-11 plus NH3 B plus G-11		11/11/25 11/12/25 13:42	
Q3483-08	HW1025-PT-NUT-SOI L	SOIL			10/27/25		10/29/25
					10:00		

LAB CHRONICLE

TOC

Lloyd Kahn

11/20/25
11:34

Q3483-09

**HW1025-PT-OGR-SOI
L**

SOIL

**10/27/25
10:00**

10/29/25

Oil and Grease

9071B

11/05/25
11:10

Q3483-24

HW1025-PT-SOL-SOIL

SOIL

**10/27/25
10:00**

10/29/25

TS

SM2540 B

10/30/25
13:00

Q3483-25

**HW1025-PT-NO2-SOI
L**

SOIL

**10/27/25
10:00**

10/29/25

Anions Group2

9056A

11/19/25
12:02

Q3483-25DL

**HW1025-PT-NO2-SOI
LDL**

SOIL

**10/27/25
10:00**

10/29/25

Anions Group2

9056A

11/19/25
13:29



SAMPLE DATA

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

Report of Analysis

Client: Alliance Technical Group, LLC - Newark
Project: NJ Soil PT
Client Sample ID: HW1025-PT-AN-SOIL
Lab Sample ID: Q3483-01

Date Collected: 10/27/25 10:00
Date Received: 10/29/25
SDG No.: Q3483
Matrix: SOIL
% Solid: 100

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Bromide	61.8		1	7.00	40.0	mg/Kg		11/19/25 11:19	9056A
Chloride	1060	OR	1	3.50	12.0	mg/Kg		11/19/25 11:19	9056A
Fluoride	71.8		1	1.80	8.00	mg/Kg		11/19/25 11:19	9056A
Nitrate	416	OR	1	1.80	10.0	mg/Kg		11/19/25 11:19	9056A
Sulfate	1570	OR	1	8.80	60.0	mg/Kg		11/19/25 11:19	9056A
Orthophosphate as P	148		1	6.70	20.0	mg/Kg		11/19/25 11:19	9056A

Comments:

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

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

Report of Analysis

Client: Alliance Technical Group, LLC - Newark
Project: NJ Soil PT
Client Sample ID: HW1025-PT-AN-SOILDL
Lab Sample ID: Q3483-01DL

Date Collected: 10/27/25 10:00
Date Received: 10/29/25
SDG No.: Q3483
Matrix: SOIL
% Solid: 100

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Chloride	892	D	10	34.7	120	mg/Kg		11/19/25 12:24	9056A
Nitrate	372	D	10	18.0	100	mg/Kg		11/19/25 12:24	9056A
Sulfate	1480	D	10	87.7	600	mg/Kg		11/19/25 12:24	9056A

Comments: _____

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

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

Report of Analysis

Client: Alliance Technical Group, LLC - Newark
Project: NJ Soil PT
Client Sample ID: HW1025-PT-CORR-SOIL
Lab Sample ID: Q3483-02

Date Collected: 10/27/25 10:00
Date Received: 10/29/25
SDG No.: Q3483
Matrix: SOIL
% Solid: 100

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Corrosivity	3.33		1	0	0	pH		11/05/25 09:00	9045D

Comments: pH result reported at temperature 20.2 °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: Alliance Technical Group, LLC - Newark
Project: NJ Soil PT
Client Sample ID: HW1025-PT-CN-SOIL
Lab Sample ID: Q3483-03

Date Collected: 10/27/25 10:00
Date Received: 10/29/25
SDG No.: Q3483
Matrix: SOIL
% Solid: 100

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Cyanide	122	OR	1	0.042	0.25	mg/Kg	11/04/25 10:30	11/04/25 15:30	9012B

Comments: _____

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

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

Report of Analysis

Client: Alliance Technical Group, LLC - Newark
Project: NJ Soil PT
Client Sample ID: HW1025-PT-CN-SOILDL
Lab Sample ID: Q3483-03DL

Date Collected: 10/27/25 10:00
Date Received: 10/29/25
SDG No.: Q3483
Matrix: SOIL
% Solid: 100

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Cyanide	125	D	10	0.42	2.50	mg/Kg	11/04/25 10:30	11/04/25 15:30	9012B

Comments: _____

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

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

Report of Analysis

Client: Alliance Technical Group, LLC - Newark
Project: NJ Soil PT
Client Sample ID: HW1025-PT-CN-SOIL
Lab Sample ID: Q3483-04

Date Collected: 10/27/25 10:00
Date Received: 10/29/25
SDG No.: Q3483
Matrix: SOIL
% Solid: 100

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Cyanide	117	OR	1	0.042	0.25	mg/Kg	11/04/25 08:25	11/04/25 16:21	9014

Comments: _____

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

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

Report of Analysis

Client: Alliance Technical Group, LLC - Newark
Project: NJ Soil PT
Client Sample ID: HW1025-PT-CN-SOILDL
Lab Sample ID: Q3483-04DL

Date Collected: 10/27/25 10:00
Date Received: 10/29/25
SDG No.: Q3483
Matrix: SOIL
% Solid: 100

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Cyanide	122	D	10	0.42	2.50	mg/Kg	11/04/25 08:25	11/04/25 16:21	9014

Comments: _____

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

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

Report of Analysis

Client: Alliance Technical Group, LLC - Newark
Project: NJ Soil PT
Client Sample ID: HW1025-PT-FP-SOIL
Lab Sample ID: Q3483-05

Date Collected: 10/27/25 10:00
Date Received: 10/29/25
SDG No.: Q3483
Matrix: SOIL
% Solid: 100

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Flash Point	109		1	0	0	o F		11/25/25 11:45	1010B

Comments: Other method reference for flash point : Pensky-Martens Closed Cup Flash Point ASTM D 93 - IP 34

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: Alliance Technical Group, LLC - Newark
Project: NJ Soil PT
Client Sample ID: HW1025-PT-CR6-SOIL
Lab Sample ID: Q3483-06

Date Collected: 10/27/25 10:00
Date Received: 10/29/25
SDG No.: Q3483
Matrix: SOIL
% Solid: 100

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Hexavalent Chromium	95.3	OR	1	0.070	0.40	mg/Kg	11/26/25 11:00	11/26/25 14:47	7196A

Comments: _____

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

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

Report of Analysis

Client: Alliance Technical Group, LLC - Newark
Project: NJ Soil PT
Client Sample ID: HW1025-PT-CR6-SOILDL
Lab Sample ID: Q3483-06DL

Date Collected: 10/27/25 10:00
Date Received: 10/29/25
SDG No.: Q3483
Matrix: SOIL
% Solid: 100

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Hexavalent Chromium	97.0	D	5	0.35	2.00	mg/Kg	11/26/25 11:00	11/26/25 14:51	7196A

Comments: _____

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

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

Report of Analysis

Client: Alliance Technical Group, LLC - Newark
Project: NJ Soil PT
Client Sample ID: HW1025-PT-NUT-SOIL
Lab Sample ID: Q3483-07

Date Collected: 10/27/25 10:00
Date Received: 10/29/25
SDG No.: Q3483
Matrix: SOIL
% Solid: 100

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Ammonia as N	1340	OR	1	2.20	5.00	mg/Kg	11/10/25 15:00	11/11/25 12:18	SM 4500-NH3 B plus G-21
Phosphorus, Total	165	OR	1	0.29	2.50	mg/Kg	11/21/25 10:20	11/21/25 13:42	365.3
TKN	1550	OR	1	9.40	25.0	mg/Kg	11/11/25 08:10	11/12/25 12:05	SM4500-N Org C-21 plus NH3 B plus G-21
TOC	14300	OR	1	28.9	250	mg/Kg		11/20/25 11:34	9060A

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

Report of Analysis

Client: Alliance Technical Group, LLC - Newark
Project: NJ Soil PT
Client Sample ID: HW1025-PT-NUT-SOILDL
Lab Sample ID: Q3483-07DL

Date Collected: 10/27/25 10:00
Date Received: 10/29/25
SDG No.: Q3483
Matrix: SOIL
% Solid: 100

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Ammonia as N	1240	D	20	44.0	100	mg/Kg	11/10/25 15:00	11/11/25 13:16	SM 4500-NH3 B plus G-21
Phosphorus, Total	755	D	50	14.5	125	mg/Kg	11/21/25 10:20	11/21/25 13:43	365.3
TKN	2790	D	10	94.0	250	mg/Kg	11/11/25 08:10	11/12/25 13:42	SM4500-N Org C-21 plus NH3 B plus G-21

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

Report of Analysis

Client: Alliance Technical Group, LLC - Newark
Project: NJ Soil PT
Client Sample ID: HW1025-PT-NUT-SOIL
Lab Sample ID: Q3483-08

Date Collected: 10/27/25 10:00
Date Received: 10/29/25
SDG No.: Q3483
Matrix: SOIL
% Solid: 100

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
TOC	14300	OR	1	43.4	250	mg/Kg		11/20/25 11:34	Lloyd Kahn

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

Report of Analysis

Client: Alliance Technical Group, LLC - Newark
Project: NJ Soil PT
Client Sample ID: HW1025-PT-OGR-SOIL
Lab Sample ID: Q3483-09

Date Collected: 10/27/25 10:00
Date Received: 10/29/25
SDG No.: Q3483
Matrix: SOIL
% Solid: 100

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Oil and Grease	1160		1	5.80	25.0	mg/Kg		11/05/25 11:10	SW9071B

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

Report of Analysis

Client: Alliance Technical Group, LLC - Newark
Project: NJ Soil PT
Client Sample ID: HW1025-PT-SOL-SOIL
Lab Sample ID: Q3483-24

Date Collected: 10/27/25 10:00
Date Received: 10/29/25
SDG No.: Q3483
Matrix: SOIL
% Solid: 75.5

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
TS	75.5		1	1.00	5.00	%		10/30/25 13:00	SM 2540 B-20

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

Report of Analysis

Client: Alliance Technical Group, LLC - Newark
Project: NJ Soil PT
Client Sample ID: HW1025-PT-NO2-SOIL
Lab Sample ID: Q3483-25

Date Collected: 10/27/25 10:00
Date Received: 10/29/25
SDG No.: Q3483
Matrix: SOIL
% Solid: 100

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Nitrite	152	OR	1	1.50	12.0	mg/Kg		11/19/25 12:02	9056A

Comments: _____

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

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

Report of Analysis

Client: Alliance Technical Group, LLC - Newark
Project: NJ Soil PT
Client Sample ID: HW1025-PT-NO2-SOILDL
Lab Sample ID: Q3483-25DL

Date Collected: 10/27/25 10:00
Date Received: 10/29/25
SDG No.: Q3483
Matrix: SOIL
% Solid: 100

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Nitrite	148	D	2	3.10	24.0	mg/Kg		11/19/25 13:29	9056A

Comments:

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

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

QC RESULT SUMMARY

Initial and Continuing Calibration Verification

Client: Alliance Technical Group, LLC - Newark

SDG No.: Q3483

Project: NJ Soil PT

RunNo.: LB137764

Analyte	Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID: ICV1 Cyanide	mg/L	0.094	0.099	95	90-110	11/04/2025
Sample ID: CCV1 Cyanide	mg/L	0.24	0.25	96	90-110	11/04/2025
Sample ID: CCV2 Cyanide	mg/L	0.25	0.25	100	90-110	11/04/2025
Sample ID: CCV3 Cyanide	mg/L	0.25	0.25	100	90-110	11/04/2025

Initial and Continuing Calibration Verification

Client: Alliance Technical Group, LLC - Newark

SDG No.: Q3483

Project: NJ Soil PT

RunNo.: LB137765

Analyte	Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID: ICV1 Cyanide	mg/L	0.096	0.099	97	90-110	11/04/2025
Sample ID: CCV1 Cyanide	mg/L	0.24	0.25	96	90-110	11/04/2025
Sample ID: CCV2 Cyanide	mg/L	0.25	0.25	100	90-110	11/04/2025

Initial and Continuing Calibration Verification

Client: Alliance Technical Group, LLC - Newark

SDG No.: Q3483

Project: NJ Soil PT

RunNo.: LB137781

Analyte	Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID: ICV Corrosivity	pH	7.02	7	100	90-110	11/05/2025
Sample ID: CCV1 Corrosivity	pH	2.02	2.00	101	90-110	11/05/2025
Sample ID: CCV2 Corrosivity	pH	12.02	12.00	100	90-110	11/05/2025

Initial and Continuing Calibration Verification

Client: Alliance Technical Group, LLC - Newark

SDG No.: Q3483

Project: NJ Soil PT

RunNo.: LB137852

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	11/11/2025
Sample ID: CCV1 Ammonia as N	mg/L	0.95	1	95	90-110	11/11/2025
Sample ID: CCV2 Ammonia as N	mg/L	0.96	1	96	90-110	11/11/2025
Sample ID: CCV3 Ammonia as N	mg/L	0.97	1	97	90-110	11/11/2025
Sample ID: CCV4 Ammonia as N	mg/L	0.96	1	96	90-110	11/11/2025
Sample ID: CCV5 Ammonia as N	mg/L	0.99	1	99	90-110	11/11/2025
Sample ID: CCV6 Ammonia as N	mg/L	0.94	1	94	90-110	11/11/2025

Initial and Continuing Calibration Verification

Client: Alliance Technical Group, LLC - Newark

SDG No.: Q3483

Project: NJ Soil PT

RunNo.: LB137870

Analyte	Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID: ICV1 TKN	mg/L	5.1	5	102	90-110	11/12/2025
Sample ID: CCV1 TKN	mg/L	5	5	100	90-110	11/12/2025
Sample ID: CCV2 TKN	mg/L	5	5	100	90-110	11/12/2025
Sample ID: CCV3 TKN	mg/L	5.1	5	102	90-110	11/12/2025
Sample ID: CCV4 TKN	mg/L	5.1	5	102	90-110	11/12/2025
Sample ID: CCV5 TKN	mg/L	5	5	100	90-110	11/12/2025
Sample ID: CCV6 TKN	mg/L	5.2	5	104	90-110	11/12/2025

Initial and Continuing Calibration Verification

Client: Alliance Technical Group, LLC - Newark

SDG No.: Q3483

Project: NJ Soil PT

RunNo.: LB137971

Analyte	Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID: ICV1						
Bromide	mg/L	9.7	10	97	90-110	11/03/2025
Chloride	mg/L	2.9	3	97	90-110	11/03/2025
Fluoride	mg/L	2	2	100	90-110	11/03/2025
Nitrite	mg/L	2.9	3	97	90-110	11/03/2025
Nitrate	mg/L	2.4	2.5	96	90-110	11/03/2025
Sulfate	mg/L	14.5	15	97	90-110	11/03/2025
Orthophosphate as P	mg/L	5.2	5	104	90-110	11/03/2025
Sample ID: CCV1						
Bromide	mg/L	10.4	10	104	90-110	11/19/2025
Chloride	mg/L	3.1	3	103	90-110	11/19/2025
Fluoride	mg/L	2.1	2	105	90-110	11/19/2025
Nitrite	mg/L	3.1	3	103	90-110	11/19/2025
Nitrate	mg/L	2.6	2.5	104	90-110	11/19/2025
Sulfate	mg/L	15.4	15	103	90-110	11/19/2025
Orthophosphate as P	mg/L	5	5	100	90-110	11/19/2025
Sample ID: CCV2						
Bromide	mg/L	10.5	10	105	90-110	11/19/2025
Chloride	mg/L	3.1	3	103	90-110	11/19/2025
Fluoride	mg/L	2.1	2	105	90-110	11/19/2025
Nitrite	mg/L	3.1	3	103	90-110	11/19/2025
Nitrate	mg/L	2.6	2.5	104	90-110	11/19/2025
Sulfate	mg/L	15.5	15	103	90-110	11/19/2025
Orthophosphate as P	mg/L	5.1	5	102	90-110	11/19/2025

Initial and Continuing Calibration Verification

Client: Alliance Technical Group, LLC - Newark

SDG No.: Q3483

Project: NJ Soil PT

RunNo.: LB137983

Analyte	Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID: ICV1 TOC	mg/L	1080	1000	108	90-110	10/23/2025
Sample ID: CCV1 TOC	mg/L	982	1000	98	90-110	11/20/2025
Sample ID: CCV2 TOC	mg/L	1020	1000	102	90-110	11/20/2025

Initial and Continuing Calibration Verification

Client: Alliance Technical Group, LLC - Newark

SDG No.: Q3483

Project: NJ Soil PT

RunNo.: LB137984

Analyte	Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID: ICV1 TOC	mg/L	1080	1000	108	90-110	10/23/2025
Sample ID: CCV1 TOC	mg/L	982	1000	98	90-110	11/20/2025
Sample ID: CCV2 TOC	mg/L	1020	1000	102	90-110	11/20/2025

Initial and Continuing Calibration Verification

Client: Alliance Technical Group, LLC - Newark

SDG No.: Q3483

Project: NJ Soil PT

RunNo.: LB138015

Analyte	Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID: ICV Phosphorus, Total	mg/L	0.494	0.50	99	90-110	11/21/2025
Sample ID: CCV1 Phosphorus, Total	mg/L	0.521	0.50	104	90-110	11/21/2025
Sample ID: CCV2 Phosphorus, Total	mg/L	0.507	0.50	101	90-110	11/21/2025

Initial and Continuing Calibration Verification

Client: Alliance Technical Group, LLC - Newark

SDG No.: Q3483

Project: NJ Soil PT

RunNo.: LB138042

Analyte	Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID: ICV						
Flash Point	o F	82.4	81	102	78-84	11/25/2025

Initial and Continuing Calibration Verification

Client: Alliance Technical Group, LLC - Newark

SDG No.: Q3483

Project: NJ Soil PT

RunNo.: LB138048

Analyte	Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID: ICV Hexavalent Chromium	mg/L	0.483	0.5	97	90-110	11/26/2025
Sample ID: CCV1 Hexavalent Chromium	mg/L	0.481	0.5	96	90-110	11/26/2025
Sample ID: CCV2 Hexavalent Chromium	mg/L	0.477	0.5	95	90-110	11/26/2025

Initial and Continuing Calibration Blank Summary

Client: Alliance Technical Group, LLC - Newark

SDG No.: Q3483

Project: NJ Soil PT

RunNo.: LB137764

Analyte	Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID: ICB1 Cyanide	mg/L	< 0.0025	0.0025	U	0.00096	0.005	11/04/2025
Sample ID: CCB1 Cyanide	mg/L	< 0.0025	0.0025	U	0.00096	0.005	11/04/2025
Sample ID: CCB2 Cyanide	mg/L	< 0.0025	0.0025	U	0.00096	0.005	11/04/2025
Sample ID: CCB3 Cyanide	mg/L	< 0.0025	0.0025	U	0.00096	0.005	11/04/2025

Initial and Continuing Calibration Blank Summary

Client: Alliance Technical Group, LLC - Newark

SDG No.: Q3483

Project: NJ Soil PT

RunNo.: LB137765

Analyte	Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID: ICB1 Cyanide	mg/L	0.001	0.0025	J	0.00096	0.005	11/04/2025
Sample ID: CCB1 Cyanide	mg/L	0.0011	0.0025	J	0.00096	0.005	11/04/2025
Sample ID: CCB2 Cyanide	mg/L	0.001	0.0025	J	0.00096	0.005	11/04/2025

Initial and Continuing Calibration Blank Summary

Client: Alliance Technical Group, LLC - Newark

SDG No.: Q3483

Project: NJ Soil PT

RunNo.: LB137852

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	11/11/2025
Sample ID: CCB1 Ammonia as N	mg/L	< 0.0500	0.0500	U	0.030	0.1	11/11/2025
Sample ID: CCB2 Ammonia as N	mg/L	< 0.0500	0.0500	U	0.030	0.1	11/11/2025
Sample ID: CCB3 Ammonia as N	mg/L	< 0.0500	0.0500	U	0.030	0.1	11/11/2025
Sample ID: CCB4 Ammonia as N	mg/L	< 0.0500	0.0500	U	0.030	0.1	11/11/2025
Sample ID: CCB5 Ammonia as N	mg/L	< 0.0500	0.0500	U	0.030	0.1	11/11/2025
Sample ID: CCB6 Ammonia as N	mg/L	< 0.0500	0.0500	U	0.030	0.1	11/11/2025

Initial and Continuing Calibration Blank Summary

Client: Alliance Technical Group, LLC - Newark

SDG No.: Q3483

Project: NJ Soil PT

RunNo.: LB137870

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	11/12/2025
Sample ID: CCB1 TKN	mg/L	< 0.2500	0.2500	U	0.11	0.5	11/12/2025
Sample ID: CCB2 TKN	mg/L	< 0.2500	0.2500	U	0.11	0.5	11/12/2025
Sample ID: CCB3 TKN	mg/L	< 0.2500	0.2500	U	0.11	0.5	11/12/2025
Sample ID: CCB4 TKN	mg/L	0.16	0.2500	J	0.11	0.5	11/12/2025
Sample ID: CCB5 TKN	mg/L	< 0.2500	0.2500	U	0.11	0.5	11/12/2025
Sample ID: CCB6 TKN	mg/L	< 0.2500	0.2500	U	0.11	0.5	11/12/2025

Initial and Continuing Calibration Blank Summary

Client: Alliance Technical Group, LLC - Newark

SDG No.: Q3483

Project: NJ Soil PT

RunNo.: LB137971

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	11/03/2025
Chloride	mg/L	< 0.3000	0.3000	U	0.19	0.6	11/03/2025
Fluoride	mg/L	< 0.2000	0.2000	U	0.11	0.4	11/03/2025
Nitrite	mg/L	< 0.3000	0.3000	U	0.074	0.6	11/03/2025
Nitrate	mg/L	< 0.2500	0.2500	U	0.095	0.5	11/03/2025
Sulfate	mg/L	< 1.5000	1.5000	U	0.46	3	11/03/2025
Orthophosphate as P	mg/L	< 0.5000	0.5000	U	0.34	1	11/03/2025
Sample ID: CCB1							
Bromide	mg/L	< 1.0000	1.0000	U	0.37	2	11/19/2025
Chloride	mg/L	< 0.3000	0.3000	U	0.19	0.6	11/19/2025
Fluoride	mg/L	< 0.2000	0.2000	U	0.11	0.4	11/19/2025
Nitrite	mg/L	< 0.3000	0.3000	U	0.074	0.6	11/19/2025
Nitrate	mg/L	< 0.2500	0.2500	U	0.095	0.5	11/19/2025
Sulfate	mg/L	< 1.5000	1.5000	U	0.46	3	11/19/2025
Orthophosphate as P	mg/L	< 0.5000	0.5000	U	0.34	1	11/19/2025
Sample ID: CCB2							
Bromide	mg/L	< 1.0000	1.0000	U	0.37	2	11/19/2025
Chloride	mg/L	< 0.3000	0.3000	U	0.19	0.6	11/19/2025
Fluoride	mg/L	< 0.2000	0.2000	U	0.11	0.4	11/19/2025
Nitrite	mg/L	< 0.3000	0.3000	U	0.074	0.6	11/19/2025
Nitrate	mg/L	< 0.2500	0.2500	U	0.095	0.5	11/19/2025
Sulfate	mg/L	< 1.5000	1.5000	U	0.46	3	11/19/2025
Orthophosphate as P	mg/L	< 0.5000	0.5000	U	0.34	1	11/19/2025

Initial and Continuing Calibration Blank Summary

Client: Alliance Technical Group, LLC - Newark

SDG No.: Q3483

Project: NJ Soil PT

RunNo.: LB137983

Analyte	Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID: ICB1 TOC	mg/L	< 125.0000	125.0000	U	22.3	250	10/23/2025
Sample ID: CCB1 TOC	mg/L	< 125.0000	125.0000	U	22.3	250	11/20/2025
Sample ID: CCB2 TOC	mg/L	< 125.0000	125.0000	U	22.3	250	11/20/2025

Initial and Continuing Calibration Blank Summary

Client: Alliance Technical Group, LLC - Newark

SDG No.: Q3483

Project: NJ Soil PT

RunNo.: LB137984

Analyte	Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID: ICB1 TOC	mg/L	< 125.0000	125.0000	U	32.1	250	10/23/2025
Sample ID: CCB1 TOC	mg/L	< 125.0000	125.0000	U	32.1	250	11/20/2025
Sample ID: CCB2 TOC	mg/L	< 125.0000	125.0000	U	32.1	250	11/20/2025

Initial and Continuing Calibration Blank Summary

Client: Alliance Technical Group, LLC - Newark

SDG No.: Q3483

Project: NJ Soil PT

RunNo.: LB138015

Analyte	Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID: ICB Phosphorus, Total	mg/L	0.006	0.0250	J	0.0045	0.05	11/21/2025
Sample ID: CCB1 Phosphorus, Total	mg/L	0.008	0.0250	J	0.0045	0.05	11/21/2025
Sample ID: CCB2 Phosphorus, Total	mg/L	0.006	0.0250	J	0.0045	0.05	11/21/2025

Initial and Continuing Calibration Blank Summary

Client: Alliance Technical Group, LLC - Newark

SDG No.: Q3483

Project: NJ Soil PT

RunNo.: LB138048

Analyte	Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID: ICB Hexavalent Chromium	mg/L	< 0.0050	0.0050	U	0.0029	0.01	11/26/2025
Sample ID: CCB1 Hexavalent Chromium	mg/L	< 0.0050	0.0050	U	0.0029	0.01	11/26/2025
Sample ID: CCB2 Hexavalent Chromium	mg/L	< 0.0050	0.0050	U	0.0029	0.01	11/26/2025

Preparation Blank Summary

Client: Alliance Technical Group, LLC - Newark

SDG No.: Q3483

Project: NJ Soil PT

Analyte	Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID: LB137711BL							
TS	%	< 2.5000	2.5000	U	1	5	10/30/2025
Sample ID: LB137754BL							
Oil and Grease	mg/Kg	< 12.5000	12.5000	U	5.8	25	11/05/2025
Sample ID: LB137971BLS							
Bromide	mg/Kg	< 20.0000	20.0000	U	7	40	11/19/2025
Chloride	mg/Kg	< 6.0000	6.0000	U	3.5	12	11/19/2025
Fluoride	mg/Kg	< 4.0000	4.0000	U	1.8	8	11/19/2025
Nitrite	mg/Kg	< 6.0000	6.0000	U	1.5	12	11/19/2025
Nitrate	mg/Kg	< 5.0000	5.0000	U	1.8	10	11/19/2025
Sulfate	mg/Kg	< 30.0000	30.0000	U	8.8	60	11/19/2025
Orthophosphate as P	mg/Kg	< 10.0000	10.0000	U	6.7	20	11/19/2025
Sample ID: LB137983BLS							
TOC	mg/Kg	< 125.0000	125.0000	U	28.9	250	11/20/2025
Sample ID: LB137984BLS							
TOC	mg/Kg	< 125.0000	125.0000	U	43.4	250	11/20/2025
Sample ID: PB170388BL							
Cyanide	mg/Kg	0.051	0.1250	J	0.042	0.25	11/04/2025
Sample ID: PB170389BL							
Cyanide	mg/Kg	0.051	0.1250	J	0.042	0.25	11/04/2025
Sample ID: PB170467BL							
Ammonia as N	mg/Kg	< 2.5000	2.5000	U	2.2	5	11/11/2025
Sample ID: PB170482BL							
TKN	mg/Kg	18.9	12.5000	J	9.4	25	11/12/2025
Sample ID: PB170673BL							
Phosphorus, Total	mg/Kg	0.4	1.2500	J	0.29	2.5	11/21/2025
Sample ID: PB170734BL							
Hexavalent Chromium	mg/Kg	< 0.2000	0.2000	U	0.07	0.4	11/26/2025

Matrix Spike Summary

Client:	Alliance Technical Group, LLC - Newark	SDG No.:	Q3483
Project:	NJ Soil PT	Sample ID:	Q3586-02
Client ID:	SED-2MS	Percent Solids for Spike Sample:	41.4

Analyte	Units	Acceptance Limit %R	Spiked Result	Conc. Qualifier	Sample Result	Conc. Qualifier	Spike Added	Dilution Factor	% Rec	Qual	Analysis Date
TKN	mg/Kg	75-125	2660	OR	2340	OR	600	1	53	*	11/12/2025

Matrix Spike Summary

Client:	Alliance Technical Group, LLC - Newark	SDG No.:	Q3483
Project:	NJ Soil PT	Sample ID:	Q3586-02
Client ID:	SED-2MSD	Percent Solids for Spike Sample:	41.4

Analyte	Units	Acceptance Limit %R	Spiked Result	Conc. Qualifier	Sample Result	Conc. Qualifier	Spike Added	Dilution Factor	% Rec	Qual	Analysis Date
TKN	mg/Kg	75-125	2650	OR	2340	OR	590	1	53	*	11/12/2025

Matrix Spike Summary

Client:	Alliance Technical Group, LLC - Newark	SDG No.:	Q3483
Project:	NJ Soil PT	Sample ID:	Q3714-01
Client ID:	OR-03-11-24-2025MS	Percent Solids for Spike Sample:	98.5

Analyte	Units	Acceptance Limit %R	Spiked Result	Conc. Qualifier	Sample Result	Conc. Qualifier	Spike Added	Dilution Factor	% Rec	Qual	Analysis Date
Hexavalent Chromium	mg/Kg	75-125	1260		0.070	U	1300	40	97		11/26/2025

Matrix Spike Summary

Client:	Alliance Technical Group, LLC - Newark	SDG No.:	Q3483
Project:	NJ Soil PT	Sample ID:	Q3714-01
Client ID:	OR-03-11-24-2025MS	Percent Solids for Spike Sample:	98.5

Analyte	Units	Acceptance Limit %R	Spiked Result	Conc. Qualifier	Sample Result	Conc. Qualifier	Spike Added	Dilution Factor	% Rec	Qual	Analysis Date
Hexavalent Chromium	mg/Kg	85-115	38.8		0.070	U	40.6	2	96		11/26/2025

Matrix Spike Summary

Client:	Alliance Technical Group, LLC - Newark	SDG No.:	Q3483
Project:	NJ Soil PT	Sample ID:	Q3714-01
Client ID:	OR-03-11-24-2025MS	Percent Solids for Spike Sample:	98.5

Analyte	Units	Acceptance Limit %R	Spiked Result	Conc. Qualifier	Sample Result	Conc. Qualifier	Spike Added	Dilution Factor	% Rec	Qual	Analysis Date
Hexavalent Chromium	mg/Kg	75-125	34.9		0.070	U	40.6	2	86		11/26/2025

Duplicate Sample Summary

Client:	Alliance Technical Group, LLC - Newark	SDG No.:	Q3483
Project:	NJ Soil PT	Sample ID:	LB137754BS
Client ID:	LB137754BSD	Percent Solids for Spike Sample:	100

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/AD	Qual	Analysis Date
Oil and Grease	mg/Kg	+/-20	94.9		94.8		1	0.05		11/05/2025

Duplicate Sample Summary

Client:	Alliance Technical Group, LLC - Newark	SDG No.:	Q3483
Project:	NJ Soil PT	Sample ID:	Q3538-02
Client ID:	3899-RICHMOND-STREET-SB2DUP	Percent Solids for Spike Sample:	100

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/AD	Qual	Analysis Date
Corrosivity	pH	+/-20	6.89		6.90		1	0.15		11/05/2025

Duplicate Sample Summary

Client:	Alliance Technical Group, LLC - Newark	SDG No.:	Q3483
Project:	NJ Soil PT	Sample ID:	Q3586-02
Client ID:	SED-2DUP	Percent Solids for Spike Sample:	41.4

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/AD	Qual	Analysis Date
TKN	mg/Kg	+/-20	2340	OR	2330	OR	1	0		11/12/2025
TKN	mg/Kg	+/-20	2680	D	2620	D	5	2		11/12/2025

Duplicate Sample Summary

Client:	Alliance Technical Group, LLC - Newark	SDG No.:	Q3483
Project:	NJ Soil PT	Sample ID:	Q3586-02
Client ID:	SED-2MSD	Percent Solids for Spike Sample:	41.4

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/AD	Qual	Analysis Date
TKN	mg/Kg	+/-20	2660	OR	2650	OR	1	0		11/12/2025

Duplicate Sample Summary

Client:	Alliance Technical Group, LLC - Newark	SDG No.:	Q3483
Project:	NJ Soil PT	Sample ID:	Q3708-01
Client ID:	112025DUP	Percent Solids for Spike Sample:	100

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/AD	Qual	Analysis Date
Flash Point	o F	+/-2	>212.0		>212.0		1	0		11/25/2025

Duplicate Sample Summary

Client:	Alliance Technical Group, LLC - Newark	SDG No.:	Q3483
Project:	NJ Soil PT	Sample ID:	Q3714-01
Client ID:	OR-03-11-24-2025DUP	Percent Solids for Spike Sample:	98.5

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/AD	Qual	Analysis Date
Hexavalent Chromium	mg/Kg	+/-20	0.070	U	0.070	U	1	0		11/26/2025

Laboratory Control Sample Summary

Client:	Alliance Technical Group, LLC - Newark	SDG No.:	Q3483
Project:	NJ Soil PT	Run No.:	LB137754

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID	LB137754BS							
Oil and Grease	mg/Kg	100	94.9		95	1	80-120	11/05/2025

Laboratory Control Sample Summary

Client:	Alliance Technical Group, LLC - Newark	SDG No.:	Q3483
Project:	NJ Soil PT	Run No.:	LB137754

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID	LB137754BSD							
Oil and Grease	mg/Kg	100	94.8		95	1	80-120	11/05/2025

Laboratory Control Sample Summary

Client:	Alliance Technical Group, LLC - Newark	SDG No.:	Q3483
Project:	NJ Soil PT	Run No.:	LB137971

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID	LB137971BSS							
Bromide	mg/Kg	200	210		105	1	90-110	11/19/2025
Chloride	mg/Kg	60	63.5		106	1	90-110	11/19/2025
Fluoride	mg/Kg	40	42.3		106	1	90-110	11/19/2025
Nitrite	mg/Kg	60	63.0		105	1	90-110	11/19/2025
Nitrate	mg/Kg	50	52.2		104	1	90-110	11/19/2025
Sulfate	mg/Kg	300	310		103	1	90-110	11/19/2025
Orthophosphate as P	mg/Kg	100	105		105	1	90-110	11/19/2025

Laboratory Control Sample Summary

Client:	Alliance Technical Group, LLC - Newark	SDG No.:	Q3483
Project:	NJ Soil PT	Run No.:	LB137983

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID	LB137983BSS							
TOC	mg/Kg	1000	1000		100	1	90-110	11/20/2025

Laboratory Control Sample Summary

Client:	Alliance Technical Group, LLC - Newark	SDG No.:	Q3483
Project:	NJ Soil PT	Run No.:	LB137984

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID	LB137984BSS							
TOC	mg/Kg	1000	1000		100	1	90-110	11/20/2025

Laboratory Control Sample Summary

Client:	Alliance Technical Group, LLC - Newark	SDG No.:	Q3483
Project:	NJ Soil PT	Run No.:	LB137765

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID	PB170388BS							
Cyanide	mg/Kg	5	4.80		96	1	85-115	11/04/2025

Laboratory Control Sample Summary

Client:	Alliance Technical Group, LLC - Newark	SDG No.:	Q3483
Project:	NJ Soil PT	Run No.:	LB137764

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID	PB170389BS							
Cyanide	mg/Kg	5	4.70		94	1	85-115	11/04/2025

Laboratory Control Sample Summary

Client:	Alliance Technical Group, LLC - Newark	SDG No.:	Q3483
Project:	NJ Soil PT	Run No.:	LB137852

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID PB170467BS								
Ammonia as N	mg/Kg	50	48.4		97	1	90-110	11/11/2025

Laboratory Control Sample Summary

Client:	Alliance Technical Group, LLC - Newark	SDG No.:	Q3483
Project:	NJ Soil PT	Run No.:	LB137870

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID	PB170482BS							
TKN	mg/Kg	250	268		107	1	90-110	11/12/2025

Laboratory Control Sample Summary

Client:	Alliance Technical Group, LLC - Newark	SDG No.:	Q3483
Project:	NJ Soil PT	Run No.:	LB138015

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID PB170673BS								
Phosphorus, Total	mg/Kg	25.0	24.0		96	1	90-110	11/21/2025

Laboratory Control Sample Summary

Client:	Alliance Technical Group, LLC - Newark	SDG No.:	Q3483
Project:	NJ Soil PT	Run No.:	LB138048

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID PB170734BS								
Hexavalent Chromium	mg/Kg	20	18.9		94	1	84-110	11/26/2025



RAW DATA

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

TOTAL SOLIDS - SM2540B

SUPERVISOR: Iwona

ANALYST: jignesh

Date: 10/30/2025

Run Number: LB137711

BalanceID: WC SC-5

OvenID: WC OVEN-1

ThermometerID: WET OVEN#1

TEMP1 IN: 104 °C 10/30/2025 13:00 TEMP1 OUT: 103 °C 10/30/2025 14:00
 TEMP2 IN: 104 °C 10/30/2025 14:30 TEMP2 OUT: 103 °C 10/30/2025 15:30
 TEMP3 IN: 104 °C 10/30/2025 16:30 TEMP3 OUT: 103 °C 10/31/2025 07:30
 TEMP4 IN: 104 °C 10/31/2025 08:00 TEMP4 OUT: 103 °C 10/31/2025 09:30

Dish #	Lab ID	Client ID	Empty Dish Weight (g)	Final Empty Dish Weight (g)	Dish + Sample Weight (g)	Original weight 1st Dish+Sample weight after Drying @103-@105°C (g)	Constant weight 2nd Dish+Sample weight after Drying @103-@105°C (g)	Final Constant weight Final Dish+Sample weight after Drying @103-@105°C (g)	Weight (g)	Result %
1	LB137711BL	LB137711BL	87.8963	87.8963	87.8963	87.8963	87.8963	87.8963	0.0000	0
2	Q3483-24	HW1025-PT-SOL-SOIL	87.9179	87.9179	108.1461	103.1854	103.1854	103.1854	15.2675	75.5

A = Final Empty Dish Weight (g)

B = Dish + Sample Weight (g)

C = Final Dish+Sample weight after Drying @103-@105°C (g)

$$\text{Result \%} = (C - A) * 100 / (B - A)$$

WORKLIST(Hardcopy Internal Chain)

WB 137711

WorkList Name : ts s q3483 WorkList ID : 192800 Department : Wet-Chemistry Date : 10-30-2025 12:46:27

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q3483-24	HW1025-PT-SOL-SOIL	Solid	TS	Cool 4 deg C	ALLI03	QA Of	10/27/2025	SM2540 B

Date/Time 10/30/25 12:55
Raw Sample Received by: SE (WC)
Raw Sample Relinquished by: SJ (QAO)

Date/Time 10/30/25 17:00
Raw Sample Received by: NA
Raw Sample Relinquished by: JB (QAO)

Extraction and Analytical Summary Report

Analysis Method: 9071B
Test: Oil and Grease
Run Number: LB137754
Analysis Date: 11/05/2025
BalanceID: WC SC-5
OvenID: EXT OVEN-3

ANALYST: jignesh
REVIEWED BY: Iwona
Extraction Date: 11/05/2025
Extraction IN Time: 10:15
Extraction OUT Time: 10:35
Thermometer ID: EXT OVEN#3

Dish #	Lab ID	Client ID	Matrix	pH	Sample Weight (g)	Final Volume (ml)	Empty Dish Weight (g)	Final Empty Dish Weight (g)	Silica Gel Weight (g)	Weight After Drying (g)	Final Weight After Drying (g)	Change Weight (g)	Result in ppm
1	LB137754BL	LB137754BL	SOLID		20.02	100	3.0411	3.0411	0	3.0412	3.0412	0.0001	5
2	LB137754BS	LB137754BS	SOLID		20.03	100	2.9963	2.9963	0	2.9982	2.9982	0.0019	94.86
3	LB137754BSD	LB137754BSD	SOLID		20.04	100	3.8961	3.8961	0	3.8980	3.8980	0.0019	94.81
4	Q3483-09	HW1025-PT-OGR-SOIL	SOLID		20.02	100	3.0182	3.0182	0	3.0414	3.0414	0.0232	1158.84
5	Q3530-01	LOD-MDL-SOIL-01-QT4-20	SOLID		20.03	100	2.7481	2.7481	0	2.7483	2.7483	0.0002	9.99
6	Q3530-02	LOQ-SOIL-02-QT4-2025	SOLID		20.04	100	3.0125	3.0125	0	3.0130	3.0130	0.0005	24.95

QC Batch# LB137754 Test: Oil and Grease Analysis Date: 11/05/2025

Chemicals Used:

Chemical Name	Chemical Lot #
HEXANE	W3240
pH Paper 0-14	NA
Sodium Sulfate	EP2655
1:1 HCL	N/A
Silica Gel	N/A
Sand	W3186

Standards Used:

Standard Name	Amount Used	Standard Lot #
LCSS	1.00 ML	WP115020
LCSSD	1.00 ML	WP115021
MS/MSD	N/A	N/A

BALANCE CALIBRATION / OVEN Dessicator Data

Analytical Balance ID # : WC SC-6

Before Analysis

0.0020 gram Balance: 0.0018 (0.0018-0.0022) In OVEN TEMP1 : 70 °C Dessicator Time In1 : 12:01
 1.0000 gram Balance: 1.0004 (0.9950-1.0050) In Time1: 11:10
 Bal Check Time: 10:20 Out OVEN TEMP1: 70 °C Dessicator Time Out1: 12:37
 Out Time1: 12:00

After Analysis

0.0020 gram Balance: 0.0019 (0.0018-0.0022) In OVEN TEMP2 : 71 °C Dessicator Time In2 : 14:01
 1.0000 gram Balance: 1.0005 (0.9950-1.0050) In Time2: 13:20
 Bal Check Time: 14:40 Out OVEN TEMP2: 71 °C Dessicator Time Out2: 14:35
 Out Time2: 14:00

WORKLIST(Hardcopy Internal Chain)

W137754

WorkList Name : OIL & GREASE Q3483 WorkList ID : 192865 Department : Wet-Chemistry Date : 11-04-2025 10:02:21

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q3483-09	HW1025-PT-OGR-SOIL	Solid	Oil and Grease	Cool 4 deg C	ALLI03	QA Of	10/27/2025	9071B
Q3530-01	LOD-MDL-SOIL-01-QT4-2025	Solid	Oil and Grease	Cool 4 deg C	ALLI03	QA Of	11/03/2025	9071B
Q3530-02	LOQ-SOIL-02-QT4-2025	Solid	Oil and Grease	Cool 4 deg C	ALLI03	QA Of	11/03/2025	9071B

Date/Time 11/04/25 10:10

Raw Sample Received by: TR WWC

Raw Sample Relinquished by: 12(WC)

Date/Time

11/04/25

Raw Sample Received by:

12(WC)

Raw Sample Relinquished by:

TR WWC

LB137

Test results

Aquakem 7.2AQ1

Page: 1

Alliance Technical Group
284 Sheffield Street, Mountainside, NJ 07092

Reviewed by : RM

Instrument ID : Konelab

11/4/2025 15:40

Test: Total CN

Sample Id	Result	Dil. 1 +	Response	Errors
ICV1	94.104	0.0	0.081	
ICB1	0.853	0.0	0.001	
CCV1	242.606	0.0	0.209	
CCB1	0.826	0.0	0.001	
PB170389BL	1.018	0.0	0.001	
PB170389BS	94.289	0.0	0.081	
LOWPB170389	9.576	0.0	0.008	95% (90-110)
HIGHPB170389	500.459	0.0	0.431	100% (90-110)
Q3530-01	3.188	0.0	0.003	11/04/2025
Q3530-01RE	4.246	0.0	0.004	1214
Q3530-02	5.485	0.0	0.005	
PB170390BL	1.169	0.0	0.001	
CCV2	245.567	0.0	0.212	
CCB2	0.918	0.0	0.001	
PB170390BS	94.161	0.0	0.081	
Q3530-07	3.505	0.0	0.003	
Q3530-07RE	4.543	0.0	0.004	
Q3530-08	5.773	0.0	0.005	
Q3483-03	2433.890	0.0	2.096	Test limit high
Q3483-03DLX10	250.805	0.0	0.216	
CCV3	254.870	0.0	0.220	
CCB3	0.769	0.0	0.001	
N	22			
Mean	193.301			
SD	517.5999			
CV%	267.77			

Aquakem v. 7.2AQ1

Results from time period:

Tue Nov 04 14:45:02 2025

Tue Nov 04 15:30:47 2025

Sample Id	Sam/Ctr/c	Test short r	Test type	Result	Result unit	Result date and time	Stat
0.0PPBCN	A	Total CN	P	0.4672	µg/l	11/4/2025 11:23:28	
5.0PPBCN	A	Total CN	P	5.5086	µg/l	11/4/2025 11:23:29	
10PPBCN	A	Total CN	P	10.6742	µg/l	11/4/2025 11:23:30	
50PPBCN	A	Total CN	P	49.0569	µg/l	11/4/2025 11:23:31	
100PPBCN	A	Total CN	P	98.8417	µg/l	11/4/2025 11:23:32	
250PPBCN	A	Total CN	P	250.2881	µg/l	11/4/2025 11:23:33	
500PPBCN	A	Total CN	P	500.1634	µg/l	11/4/2025 11:23:34	
ICV1	S	Total CN	P	94.1038	µg/l	11/4/2025 14:45:03	
ICB1	S	Total CN	P	0.8533	µg/l	11/4/2025 14:45:04	
CCV1	S	Total CN	P	242.6062	µg/l	11/4/2025 14:45:06	
CCB1	S	Total CN	P	0.8264	µg/l	11/4/2025 14:45:09	
PB170389BL	S	Total CN	P	1.018	µg/l	11/4/2025 14:45:11	
PB170389BS	S	Total CN	P	94.2893	µg/l	11/4/2025 14:52:37	
LOWPB170389	S	Total CN	P	9.5764	µg/l	11/4/2025 14:52:38	
HIGHPB170389	S	Total CN	P	500.4587	µg/l	11/4/2025 14:52:42	
Q3530-01	S	Total CN	P	3.188	µg/l	11/4/2025 15:00:09	
Q3530-01RE	S	Total CN	P	4.2462	µg/l	11/4/2025 15:00:11	
Q3530-02	S	Total CN	P	5.4853	µg/l	11/4/2025 15:00:12	
PB170390BL	S	Total CN	P	1.1687	µg/l	11/4/2025 15:00:16	
CCV2	S	Total CN	P	245.5667	µg/l	11/4/2025 15:00:19	
CCB2	S	Total CN	P	0.9177	µg/l	11/4/2025 15:07:44	
PB170390BS	S	Total CN	P	94.1612	µg/l	11/4/2025 15:07:46	
Q3530-07	S	Total CN	P	3.5047	µg/l	11/4/2025 15:07:48	
Q3530-07RE	S	Total CN	P	4.5432	µg/l	11/4/2025 15:07:50	
Q3530-08	S	Total CN	P	5.7727	µg/l	11/4/2025 15:07:53	
Q3483-03	S	Total CN	P	2433.89	µg/l	11/4/2025 15:30:43	
Q3483-03DLX10	S	Total CN	P	250.8049	µg/l	11/4/2025 15:30:45	
CCV3	S	Total CN	P	254.8702	µg/l	11/4/2025 15:30:46	
CCB3	S	Total CN	P	0.7688	µg/l	11/4/2025 15:30:47	

Calibration results

Aquakem 7.2AQ1

Page: 1

Alliance Technical Group
284 Sheffield Street, Mountainside, NJ 07092

Reviewed by : RM Instrument ID : Konelab

11/4/2025 11:24

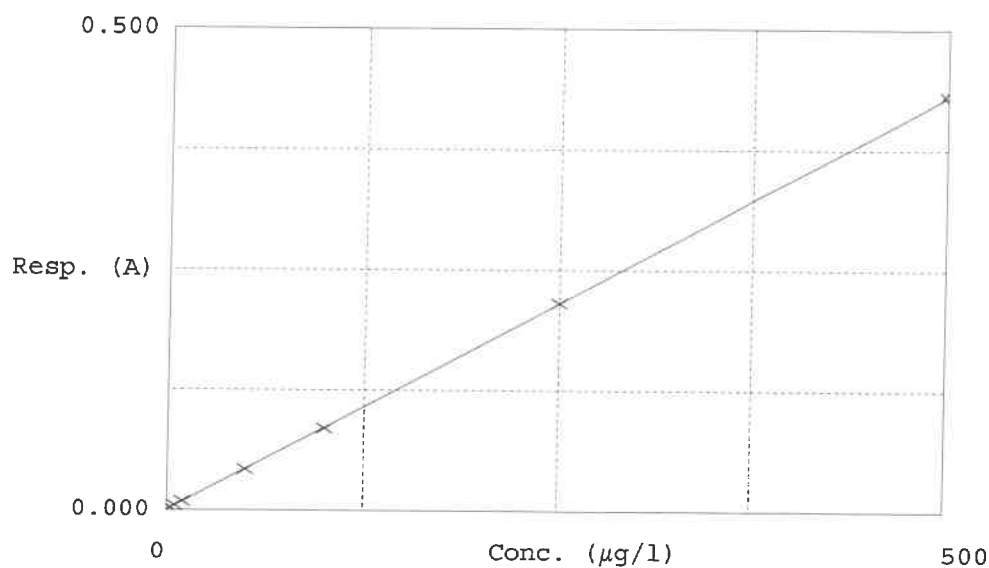
Test Total CN

Accepted 11/4/2025 11:24

Factor 1161
Bias 0

Coeff. of det. 0.999984

Errors



	Calibrator	Response	Calc. con.	Conc.	Errors
1	0.0PPBCN	0.001	0.4672	0.0000	-
2	5.0PPBCN	0.005	5.5086	5.0000	10.2
3	10PPBCN	0.009	10.6742	10.0000	6.7
4	50PPBCN	0.042	49.0569	50.0000	-1.9
5	100PPBCN	0.085	98.8417	100.0000	-1.2
6	250PPBCN	0.216	250.2881	250.0000	0.1
7	500PPBCN	0.431	500.1634	500.0000	0.0

11/04/2025

RM

6b1377

Test results

Aquakem 7.2AQ1

Page:

Alliance Technical Group
284 Sheffield Street, Mountainside, NJ 07092

Reviewed by : RM

Instrument ID : Konelab

11/4/2025 16:23

Test: Total CN

Sample Id	Result	Dil. 1 +	Response	Errors
ICV1	95.616	0.0	0.083	
ICB1	1.015	0.0	0.001	
CCV1	244.865	0.0	0.211	
CCB1	1.057	0.0	0.001	
PB170388BL	1.018	0.0	0.001	
PB170388BS	95.155	0.0	0.082	
Q3483-04	2343.808	0.0	2.018	Test limit high
Q3483-04DLX10	243.479	0.0	0.210	
CCV2	248.954	0.0	0.215	
CCB2	1.015	0.0	0.001	
N	10			
Mean	327.598			
SD	716.4457			
CV%	218.70			

Aquakem v. 7.2AQ1

Results from time period:

Tue Nov 04 16:14:28 2025

Tue Nov 04 16:21:15 2025

Sample Id	Sam/Ctr/c	Test short r	Test type	Result	Result unit	Result date and time	Stat
0.0PPBCN	A	Total CN	P	0.4672	µg/l	11/4/2025 11:23:28	
5.0PPBCN	A	Total CN	P	5.5086	µg/l	11/4/2025 11:23:29	
10PPBCN	A	Total CN	P	10.6742	µg/l	11/4/2025 11:23:30	
50PPBCN	A	Total CN	P	49.0569	µg/l	11/4/2025 11:23:31	
100PPBCN	A	Total CN	P	98.8417	µg/l	11/4/2025 11:23:32	
250PPBCN	A	Total CN	P	250.2881	µg/l	11/4/2025 11:23:33	
500PPBCN	A	Total CN	P	500.1634	µg/l	11/4/2025 11:23:34	
ICV1	S	Total CN	P	95.6161	µg/l	11/4/2025 16:14:28	
ICB1	S	Total CN	P	1.015	µg/l	11/4/2025 16:14:30	
CCV1	S	Total CN	P	244.8651	µg/l	11/4/2025 16:14:33	
CCB1	S	Total CN	P	1.0566	µg/l	11/4/2025 16:14:35	
PB170388BL	S	Total CN	P	1.0185	µg/l	11/4/2025 16:14:37	
PB170388BS	S	Total CN	P	95.1551	µg/l	11/4/2025 16:14:38	
Q3483-04	S	Total CN	P	2343.808	µg/l	11/4/2025 16:21:08	
Q3483-04DLX10	S	Total CN	P	243.4792	µg/l	11/4/2025 16:21:10	
CCV2	S	Total CN	P	248.9541	µg/l	11/4/2025 16:21:12	
CCB2	S	Total CN	P	1.0145	µg/l	11/4/2025 16:21:15	

Calibration results

Aquakem 7.2AQ1

Page: 1

Alliance Technical Group
 284 Sheffield Street, Mountainside, NJ 07092

Reviewed by : RM Instrument ID : Konelab

11/4/2025 11:24

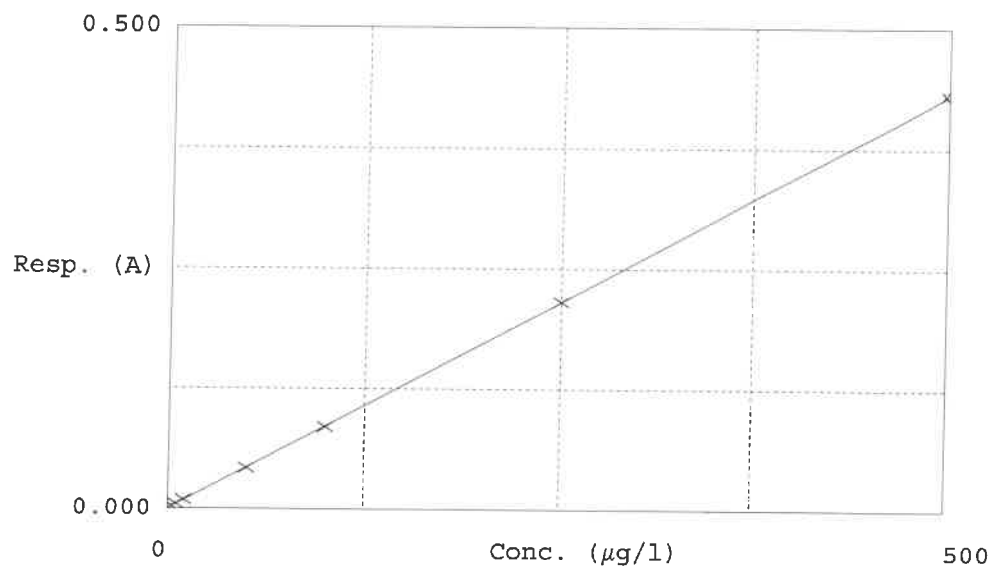
Test Total CN

Accepted 11/4/2025 11:24

Factor 1161
 Bias 0

Coeff. of det. 0.999984

Errors



	Calibrator	Response	Calc. con.	Conc.	Errors
1	0.0PPBCN	0.001	0.4672	0.0000	-
2	5.0PPBCN	0.005	5.5086	5.0000	10.2
3	10PPBCN	0.009	10.6742	10.0000	6.7
4	50PPBCN	0.042	49.0569	50.0000	-1.9
5	100PPBCN	0.085	98.8417	100.0000	-1.2
6	250PPBCN	0.216	250.2881	250.0000	0.1
7	500PPBCN	0.431	500.1634	500.0000	0.0

11/04/2025

RM

Analytical Summary Report

Analysis Method: 9045D

Analyst By : jignesh

Parameter: Corrosivity

Supervisor Review By : Iwona

Run Number: LB137781

Slope : 98.6

BalanceID: WC SC-7

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	W3217
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	11/05/2025	08:45
2	CAL2	1	Water	NA	NA	20.2	7.01	11/05/2025	08:46
3	CAL3	1	Water	NA	NA	20.2	10.02	11/05/2025	08:47
4	ICV	1	Water	NA	NA	20.2	7.02	11/05/2025	08:49
5	CCV1	1	Water	NA	NA	20.2	2.02	11/05/2025	08:50
6	Q3483-02	1	Solid	20.02	20	20.2	3.33	11/05/2025	09:00
7	Q3514-01	1	Solid	20.03	20	22.6	5.50	11/05/2025	09:10
8	Q3532-04	1	Solid	20.02	20	22.7	5.56	11/05/2025	09:15
9	Q3532-08	1	Solid	20.03	20	22.3	5.87	11/05/2025	09:25
10	Q3537-02	1	Solid	20.02	20	23.6	7.30	11/05/2025	09:30
11	Q3538-01	1	Solid	20.02	20	24.3	6.87	11/05/2025	09:40
12	Q3538-02	1	Solid	20.03	20	21.4	6.89	11/05/2025	09:42
13	Q3538-02DUP	1	Solid	20.04	20	21.6	6.90	11/05/2025	09:44
14	CCV2	1	Water	NA	NA	20.3	12.02	11/05/2025	09:45

WORKLIST(Hardcopy Internal Chain)

SR 131178 13137181

WorkList Name : corrosivity q3538 WorkList ID : 192884 Department : Wet-Chemistry Date : 11-05-2025 08:35:41

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q3483-02	HW1025-PT-CORR-SOIL	Solid	Corrosivity	Cool 4 deg C	ALLI03	QA Of	10/27/2025	9045D
Q3514-01	OILY-DEBRIS-RAGS	Solid	Corrosivity	Cool 4 deg C	PSEG03	D41	10/31/2025	9045D
Q3532-04	TP-1	Solid	Corrosivity	Cool 4 deg C	PSEG03		11/04/2025	9045D
Q3532-08	TP-2	Solid	Corrosivity	Cool 4 deg C	PSEG03	D31	11/04/2025	9045D
Q3537-02	MW-17-SOIL	Solid	Corrosivity	Cool 4 deg C	PSEG03	D41	11/04/2025	9045D
Q3538-01	3899-RICHMOND-STREET-SB	Solid	Corrosivity	Cool 4 deg C	AMBR01	D41	11/04/2025	9045D
Q3538-02	3899-RICHMOND-STREET-SB	Solid	Corrosivity	Cool 4 deg C	AMBR01	D31	11/04/2025	9045D

Date/Time 11/05/25 08:40
Raw Sample Received by: SR WU
Raw Sample Relinquished by: [Signature]

Date/Time 11/05/25 13:30
Raw Sample Received by: [Signature]
Raw Sample Relinquished by: [Signature]

LB137852

Test results

Aquakem 7.2AQ1

Page:

Alliance Technical Group
 284 Sheffield Street, Mountainside, NJ 07092

Reviewed by : RM

Instrument ID : Konelab

11/11/2025 13:51

Test: Ammonia-N

Sample Id	Result	Dil. 1 +	Response	Errors
ICV1	0.965	0.0	0.197	
ICB1	0.011	0.0	0.019	
CCV1	0.953	0.0	0.195	
CCB1	0.012	0.0	0.019	
RL CHECK	0.093	0.0	0.034	
PB170466BL	0.014	0.0	0.020	
PB170466BS	0.974	0.0	0.198	
Q3530-08	0.110	0.0	0.038	
Q3554-01	8.281	0.0	1.558	Test limit high
Q3560-01	8.111	0.0	1.527	Test limit high
Q3560-01DUP	8.132	0.0	1.531	Test limit high
Q3560-01MS	9.060	0.0	1.703	Test limit high
Q3560-01MSD	9.061	0.0	1.704	Test limit high
CCV2	0.956	0.0	0.195	
CCB2	0.013	0.0	0.020	
Q3560-03	0.015	0.0	0.020	
Q3560-05	0.074	0.0	0.031	
Q3560-07	32.190	0.0	6.009	Init abs., Test limit hig
Q3560-09	1.401	0.0	0.278	
Q3566-01	1.031	0.0	0.209	
Q3575-01	3.637	0.0	0.694	Test limit high
Q3575-02	3.669	0.0	0.700	Test limit high
PB170467BL	0.017	0.0	0.020	
PB170467BS	0.968	0.0	0.197	
CCV3	0.968	0.0	0.197	
CCB3	0.015	0.0	0.020	
Q3530-02	0.109	0.0	0.037	
Q3483-07	26.826	0.0	5.010	Init abs., Test limit hig
CCV4	0.962	0.0	0.196	
CCB4	0.017	0.0	0.020	
Q3554-01DLX10	0.766	0.0	0.160	
Q3560-01DLX10	0.743	0.0	0.155	
Q3560-01DUPDLX10	0.739	0.0	0.155	
Q3560-07DLX20	2.160	0.0	0.419	Test limit high
Q3575-01DLX5	0.700	0.0	0.147	
Q3575-02DLX5	0.698	0.0	0.147	
Q3483-07DLX20	1.241	0.0	0.248	
CCV5	0.987	0.0	0.201	
CCB5	0.016	0.0	0.020	
Q3530-07	0.084	0.0	0.033	
Q3530-01	0.085	0.0	0.033	
Q3560-07DL2X40	1.049	0.0	0.212	
CCV6	0.944	0.0	0.193	
CCB6	0.019	0.0	0.021	

N 44
 Mean 2.929
 SD 6.4540
 CV% 220.35

93% (50-150)
 11/11/2025
 RM

Aquakem v. 7.2AQ1

Results from time period:

Tue Nov 11 10:21:07 2025

Tue Nov 11 13:46:45 2025

Sample Id	Sam/Ctr/c	Test short r	Test type	Result	Result unit	Result date and time
0.0PPM	A	Ammonia-† P		0.0156	mg/l	11/11/2025 10:21:07
0.1PPM	A	Ammonia-† P		0.1113	mg/l	11/11/2025 10:21:08
0.2PPM	A	Ammonia-† P		0.2016	mg/l	11/11/2025 10:21:09
0.4PPM	A	Ammonia-† P		0.3916	mg/l	11/11/2025 10:21:10
1.0PPM	A	Ammonia-† P		0.9896	mg/l	11/11/2025 10:21:11
1.3PPM	A	Ammonia-† P		1.2858	mg/l	11/11/2025 10:21:12
2.0PPM	A	Ammonia-† P		2.0378	mg/l	11/11/2025 10:21:13
ICV1	S	Ammonia-† P		0.9652	mg/l	11/11/2025 11:35:15
ICB1	S	Ammonia-† P		0.0114	mg/l	11/11/2025 11:35:17
CCV1	S	Ammonia-† P		0.9533	mg/l	11/11/2025 11:35:19
CCB1	S	Ammonia-† P		0.012	mg/l	11/11/2025 11:35:21
RL CHECK	S	Ammonia-† P		0.093	mg/l	11/11/2025 11:35:24
PB170466BL	S	Ammonia-† P		0.014	mg/l	11/11/2025 11:45:59
PB170466BS	S	Ammonia-† P		0.9743	mg/l	11/11/2025 11:46:01
Q3530-08	S	Ammonia-† P		0.11	mg/l	11/11/2025 11:46:06
Q3554-01	S	Ammonia-† P		8.2812	mg/l	11/11/2025 11:46:08
Q3560-01	S	Ammonia-† P		8.1108	mg/l	11/11/2025 11:46:09
Q3560-01DUP	S	Ammonia-† P		8.1315	mg/l	11/11/2025 11:56:44
Q3560-01MS	S	Ammonia-† P		9.0598	mg/l	11/11/2025 11:56:45
Q3560-01MSD	S	Ammonia-† P		9.0607	mg/l	11/11/2025 11:56:46
CCV2	S	Ammonia-† P		0.9558	mg/l	11/11/2025 11:56:49
CCB2	S	Ammonia-† P		0.0132	mg/l	11/11/2025 11:56:52
Q3560-03	S	Ammonia-† P		0.0148	mg/l	11/11/2025 11:56:53
Q3560-05	S	Ammonia-† P		0.0742	mg/l	11/11/2025 11:56:54
Q3560-07	S	Ammonia-† P		32.1902	mg/l	11/11/2025 12:07:27
Q3560-09	S	Ammonia-† P		1.4013	mg/l	11/11/2025 12:07:28
Q3566-01	S	Ammonia-† P		1.0306	mg/l	11/11/2025 12:07:29
Q3575-01	S	Ammonia-† P		3.6373	mg/l	11/11/2025 12:07:30
Q3575-02	S	Ammonia-† P		3.6691	mg/l	11/11/2025 12:07:31
PB170467BL	S	Ammonia-† P		0.0166	mg/l	11/11/2025 12:07:33
PB170467BS	S	Ammonia-† P		0.9678	mg/l	11/11/2025 12:07:34
CCV3	S	Ammonia-† P		0.9678	mg/l	11/11/2025 12:18:13
CCB3	S	Ammonia-† P		0.0153	mg/l	11/11/2025 12:18:16
Q3530-02	S	Ammonia-† P		0.1088	mg/l	11/11/2025 12:18:17
Q3483-07	S	Ammonia-† P		26.8257	mg/l	11/11/2025 12:18:20
CCV4	S	Ammonia-† P		0.9622	mg/l	11/11/2025 12:28:24
CCB4	S	Ammonia-† P		0.0166	mg/l	11/11/2025 12:28:27
Q3554-01DLX10	S	Ammonia-† P		0.7655	mg/l	11/11/2025 13:06:05
Q3560-01DLX10	S	Ammonia-† P		0.7427	mg/l	11/11/2025 13:06:07

Q3560-01DUPDLX10	S	Ammonia-↑ P	0.7393 mg/l	11/11/2025 13:06:08
Q3560-07DLX20	S	Ammonia-↑ P	2.1597 mg/l	11/11/2025 13:06:10
Q3575-01DLX5	S	Ammonia-↑ P	0.6996 mg/l	11/11/2025 13:16:43
Q3575-02DLX5	S	Ammonia-↑ P	0.6979 mg/l	11/11/2025 13:16:44
Q3483-07DLX20	S	Ammonia-↑ P	1.2405 mg/l	11/11/2025 13:16:47
CCV5	S	Ammonia-↑ P	0.9865 mg/l	11/11/2025 13:22:12
CCB5	S	Ammonia-↑ P	0.0163 mg/l	11/11/2025 13:22:13
Q3530-07	S	Ammonia-↑ P	0.0843 mg/l	11/11/2025 13:46:35
Q3530-01	S	Ammonia-↑ P	0.0855 mg/l	11/11/2025 13:46:36
Q3560-07DL2X40	S	Ammonia-↑ P	1.0495 mg/l	11/11/2025 13:46:41
CCV6	S	Ammonia-↑ P	0.9438 mg/l	11/11/2025 13:46:42
CCB6	S	Ammonia-↑ P	0.0195 mg/l	11/11/2025 13:46:45

1
2
3
4
5
6
7
8
9
10
11
12
13
14

Calibration results

Aquakem 7.2AQ1

Page:

Alliance Technical Group

284 Sheffield Street, Mountainside, NJ 07092

Reviewed by : RM

Instrument ID : Konelab

11/11/2025 10:23

Test Ammonia-N

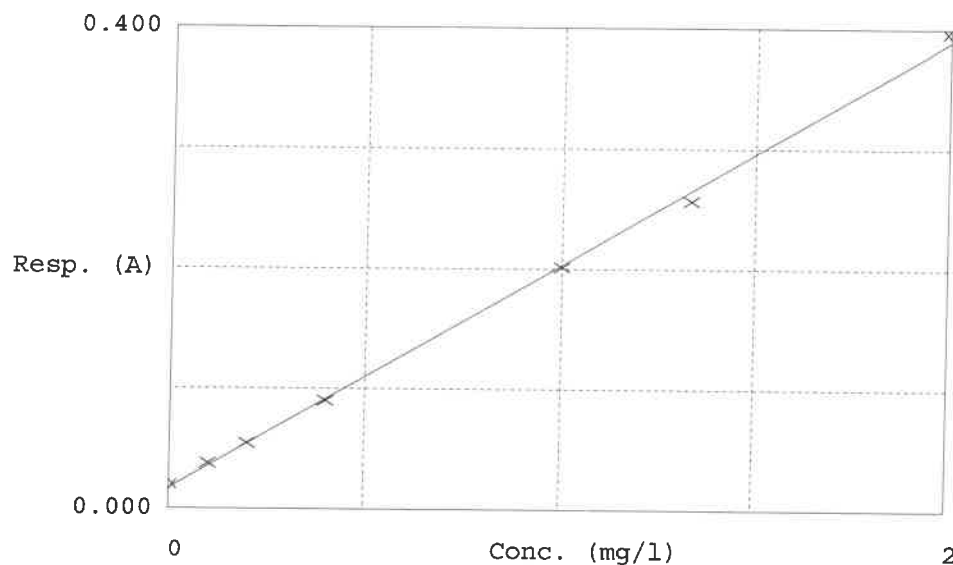
Accepted 11/11/2025 10:23

Factor 5.373

Bias 0.017

Coeff. of det. 0.998745

Errors



	Calibrator	Response	Calc. con.	Conc.	Errors
1	0.00PPM	0.020	0.0156	0.0000	-
2	NH3-2PPM	0.038	0.1113	0.1000	11.3
3	NH3-2PPM	0.055	0.2016	0.2000	0.8
4	NH3-2PPM	0.090	0.3916	0.4000	-2.1
5	NH3-2PPM	0.201	0.9896	1.0000	-1.0
6	NH3-2PPM	0.256	1.2858	1.3333	-1.1
7	NH3-2PPM	0.396	2.0378	2.0000	1.9

11/11/2025
RM

LB13787

Test results

Aquakem 7.2AQ1

Page:

Alliance Technical Group
284 Sheffield Street, Mountainside, NJ 07092Reviewed by : RM

Instrument ID : Konelab

11/12/2025 13:57

Test: TKN-NH3

Sample Id	Result	Dil. 1 +	Response	Errors
ICV1	5.090	0.0	1.016	
ICB1	-0.014	0.0	0.021	
CCV1	4.981	0.0	0.995	
CCB1	0.011	0.0	0.025	
RL CHECK	0.475	0.0	0.116	
11/12/25 RM PB170452BL 510b1	-0.016	0.0	0.020	95% (50-150)
11/12/25 RM PB170452BS 510b3	5.117	0.0	1.021	11/12/2025 RM
Q3530-07	0.241	0.0	0.070	
Q3530-08	0.537	0.0	0.128	
Q3552-01	32.782	0.0	6.418	Abs. high, Init abs., Tes
Q3552-02	13.160	0.0	2.590	Init abs., Test limit hig
Q3552-03	33.601	0.0	6.578	Abs. high, Init abs., Tes
Q3552-04	2.872	0.0	0.583	
Q3552-04DUP	2.701	0.0	0.550	
CCV2	5.046	0.0	1.008	
CCB2	0.028	0.0	0.029	
Q3552-04MS	7.307	0.0	1.449	
Q3552-04MSD	7.196	0.0	1.427	
Q3552-05	31.018	0.0	6.074	Init abs., Test limit hig
Q3560-01	8.250	0.0	1.633	
Q3560-03	0.101	0.0	0.043	
Q3560-05	0.404	0.0	0.102	
Q3560-07	29.862	0.0	5.849	Init abs., Test limit hig
Q3560-09	1.441	0.0	0.304	
Q3569-01	27.813	0.0	5.449	Init abs., Test limit hig
Q3569-02	30.898	0.0	6.051	Init abs., Test limit hig
CCV3	5.068	0.0	1.012	
CCB3	-0.014	0.0	0.021	
Q3584-01	0.655	0.0	0.151	
Q3584-02	0.747	0.0	0.169	
Q3584-03	2.170	0.0	0.447	
Q3584-07	31.572	0.0	6.182	Init abs., Test limit hig
PB170482BL	0.378	0.0	0.097	
PB170482BS	5.351	0.0	1.067	
Q3483-07	30.915	0.0	6.054	Init abs., Test limit hig
Q3530-01	0.232	0.0	0.069	
Q3530-02	0.514	0.0	0.124	
Q3586-02	19.729	0.0	3.872	Init abs., Test limit hig
CCV4	5.118	0.0	1.022	
CCB4	0.161	0.0	0.055	
Q3586-02DUP	19.660	0.0	3.858	Init abs., Test limit hig
Q3586-02MS	22.223	0.0	4.358	Init abs., Test limit hig
Q3586-02MSD	22.373	0.0	4.388	Init abs., Test limit hig
Q3552-01DLX20	7.902	0.0	1.565	
Q3552-02DLX2	6.532	0.0	1.298	
Q3552-03DLX10	8.534	0.0	1.688	
Q3552-05DLX10	6.661	0.0	1.323	
Q3560-07DLX10	4.854	0.0	0.970	
Q3569-01DLX10	3.594	0.0	0.724	
CCV5	4.965	0.0	0.992	
CCB5	-0.023	0.0	0.019	
Q3569-02DLX10	7.098	0.0	1.408	
Q3483-07DLX10	5.586	0.0	1.113	
Q3586-02DLX5	4.526	0.0	0.906	
Q3586-02DUPDLX5	4.428	0.0	0.887	

613787

Test results

Aquakem 7.2AQ1

Page:

Alliance Technical Group

284 Sheffield Street, Mountainside, NJ 07092

11/12/2025 13:57

Reviewed by : RM

Instrument ID : Konelab

Test: TKN-NH3

Sample Id	Result	Dil. 1 +	Response	Errors
Q3484-07DLX20	6.876	0.0	1.365	
CCV6	5.182	0.0	1.034	
CCB6	0.015	0.0	0.026	

N	58
Mean	8.526
SD	10.5347
CV%	123.57

Aquakem v. 7.2AQ1

Results from time period:

Wed Nov 12 10:23:27 2025

Wed Nov 12 13:45:39 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	-0.013	mg/l	11/12/2025 10:23:27	
0.5PPM	A	TKN-NH3	P	0.4527	mg/l	11/12/2025 10:23:28	
1.0PPM	A	TKN-NH3	P	0.9186	mg/l	11/12/2025 10:23:29	
2.5PPM	A	TKN-NH3	P	2.5078	mg/l	11/12/2025 10:23:30	
5.0PPM	A	TKN-NH3	P	5.1098	mg/l	11/12/2025 10:23:31	
6.7PPM	A	TKN-NH3	P	6.8781	mg/l	11/12/2025 10:23:32	
10.0PPM	A	TKN-NH3	P	9.8128	mg/l	11/12/2025 10:23:33	
ICV1	S	TKN-NH3	P	5.0902	mg/l	11/12/2025 11:32:42	
ICB1	S	TKN-NH3	P	-0.0135	mg/l	11/12/2025 11:32:44	
CCV1	S	TKN-NH3	P	4.9809	mg/l	11/12/2025 11:32:46	
CCB1	S	TKN-NH3	P	0.0107	mg/l	11/12/2025 11:32:49	
RL CHECK	S	TKN-NH3	P	0.475	mg/l	11/12/2025 11:32:51	
PB170510BL	S	TKN-NH3	P	-0.0164	mg/l	11/12/2025 11:32:53	
PB170510BS	S	TKN-NH3	P	5.1167	mg/l	11/12/2025 11:43:23	
Q3530-07	S	TKN-NH3	P	0.2412	mg/l	11/12/2025 11:43:26	
Q3530-08	S	TKN-NH3	P	0.5368	mg/l	11/12/2025 11:43:27	
Q3552-01	S	TKN-NH3	P	32.7823	mg/l	11/12/2025 11:43:29	
Q3552-02	S	TKN-NH3	P	13.1601	mg/l	11/12/2025 11:43:30	
Q3552-03	S	TKN-NH3	P	33.6011	mg/l	11/12/2025 11:43:31	
Q3552-04	S	TKN-NH3	P	2.8716	mg/l	11/12/2025 11:43:33	
Q3552-04DUP	S	TKN-NH3	P	2.7009	mg/l	11/12/2025 11:43:34	
CCV2	S	TKN-NH3	P	5.0457	mg/l	11/12/2025 11:54:08	
CCB2	S	TKN-NH3	P	0.0282	mg/l	11/12/2025 11:54:09	
Q3552-04MS	S	TKN-NH3	P	7.3071	mg/l	11/12/2025 11:54:10	
Q3552-04MSD	S	TKN-NH3	P	7.196	mg/l	11/12/2025 11:54:11	
Q3552-05	S	TKN-NH3	P	31.0181	mg/l	11/12/2025 11:54:14	
Q3560-01	S	TKN-NH3	P	8.2499	mg/l	11/12/2025 11:54:15	
Q3560-03	S	TKN-NH3	P	0.101	mg/l	11/12/2025 11:54:16	
Q3560-05	S	TKN-NH3	P	0.4044	mg/l	11/12/2025 11:54:17	
Q3560-07	S	TKN-NH3	P	29.8624	mg/l	11/12/2025 11:54:18	
Q3560-09	S	TKN-NH3	P	1.4411	mg/l	11/12/2025 12:04:51	
Q3569-01	S	TKN-NH3	P	27.813	mg/l	11/12/2025 12:04:52	
Q3569-02	S	TKN-NH3	P	30.8975	mg/l	11/12/2025 12:04:53	
CCV3	S	TKN-NH3	P	5.0676	mg/l	11/12/2025 12:04:54	
CCB3	S	TKN-NH3	P	-0.0141	mg/l	11/12/2025 12:04:55	
Q3584-01	S	TKN-NH3	P	0.6552	mg/l	11/12/2025 12:04:56	
Q3584-02	S	TKN-NH3	P	0.7465	mg/l	11/12/2025 12:04:57	
Q3584-03	S	TKN-NH3	P	2.1705	mg/l	11/12/2025 12:04:58	
Q3584-07	S	TKN-NH3	P	31.5722	mg/l	11/12/2025 12:04:59	

PB170482BL	S	TKN-NH3	P	0.3784 mg/l	11/12/2025 12:05:00
PB170482BS	S	TKN-NH3	P	5.3513 mg/l	11/12/2025 12:05:01
Q3483-07	S	TKN-NH3	P	30.9153 mg/l	11/12/2025 12:05:02
Q3530-01	S	TKN-NH3	P	0.2319 mg/l	11/12/2025 12:15:35
Q3530-02	S	TKN-NH3	P	0.5137 mg/l	11/12/2025 12:15:36
Q3586-02	S	TKN-NH3	P	19.7287 mg/l	11/12/2025 12:15:37
CCV4	S	TKN-NH3	P	5.118 mg/l	11/12/2025 12:15:38
CCB4	S	TKN-NH3	P	0.1611 mg/l	11/12/2025 12:15:39
Q3586-02DUP	S	TKN-NH3	P	19.6598 mg/l	11/12/2025 12:15:40
Q3586-02MS	S	TKN-NH3	P	22.2229 mg/l	11/12/2025 12:15:41
Q3586-02MSD	S	TKN-NH3	P	22.3735 mg/l	11/12/2025 12:15:42
Q3552-01DLX20	S	TKN-NH3	P	7.9015 mg/l	11/12/2025 12:15:43
Q3552-02DLX2	S	TKN-NH3	P	6.5321 mg/l	11/12/2025 12:15:45
Q3552-03DLX10	S	TKN-NH3	P	8.5336 mg/l	11/12/2025 12:15:46
Q3552-05DLX10	S	TKN-NH3	P	6.6612 mg/l	11/12/2025 12:26:19
Q3560-07DLX10	S	TKN-NH3	P	4.8544 mg/l	11/12/2025 12:26:20
Q3569-01DLX10	S	TKN-NH3	P	3.5942 mg/l	11/12/2025 12:26:21
CCV5	S	TKN-NH3	P	4.9652 mg/l	11/12/2025 13:42:24
CCB5	S	TKN-NH3	P	-0.0228 mg/l	11/12/2025 13:42:26
Q3569-02DLX10	S	TKN-NH3	P	7.0982 mg/l	11/12/2025 13:42:27
Q3483-07DLX10	S	TKN-NH3	P	5.586 mg/l	11/12/2025 13:42:28
Q3586-02DLX5	S	TKN-NH3	P	4.5261 mg/l	11/12/2025 13:42:31
Q3586-02DUPDLX5	S	TKN-NH3	P	4.4275 mg/l	11/12/2025 13:42:32
Q3484-07DLX20	S	TKN-NH3	P	6.876 mg/l	11/12/2025 13:42:33
CCV6	S	TKN-NH3	P	5.1821 mg/l	11/12/2025 13:42:34
CCB6	S	TKN-NH3	P	0.0153 mg/l	11/12/2025 13:45:39

1
2
3
4
5
6
7
8
9
10
11
12
13
14

Calibration results Aquakem 7.2AQ1 Page:

Alliance Technical Group
284 Sheffield Street, Mountainside, NJ 07092

11/12/2025 10:27 Reviewed by : RM Instrument ID : Konelab

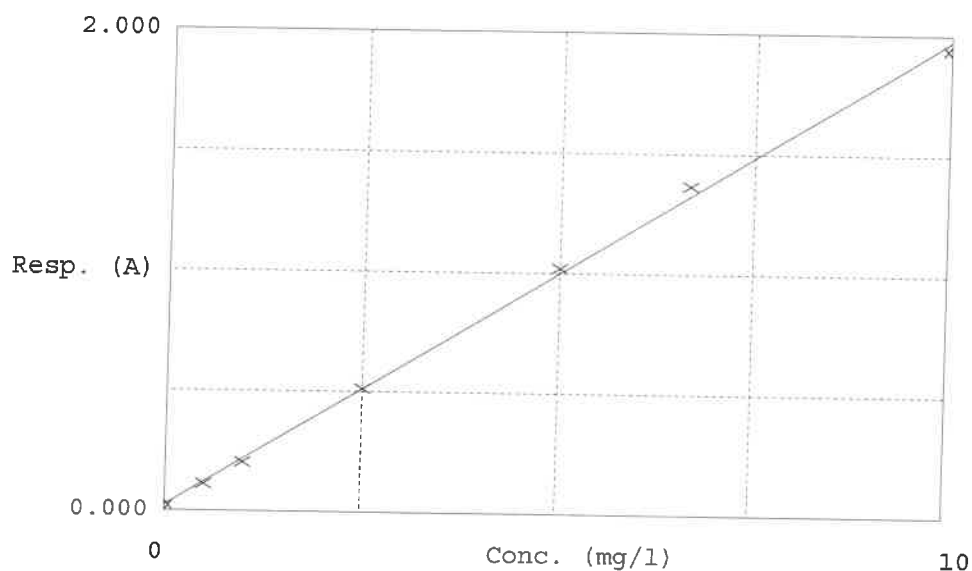
Test TKN-NH3

Accepted 11/12/2025 10:27

Factor 5.126
Bias 0.023

Coeff. of det. 0.998783

Errors



	Calibrator	Response	Calc. con.	Conc.	Errors
1	0.00PPM	0.021	-0.0130	0.0000	-
2	TKN-10	0.112	0.4527	0.5000	-9.5
3	TKN-10	0.202	0.9186	1.0000	-8.1
4	TKN-10	0.513	2.5078	2.5000	0.3
5	TKN-10	1.020	5.1098	5.0000	2.2
6	TKN-10	1.365	6.8781	6.6667	2.7
7	TKN-10	1.937	9.8128	10.0000	-1.9

11/12/2025
RM

Ident	Instrument IC-1			Analyst: RM		Method: 300.0 / 9056A				
	Con F-	Con CL-	Con NO2	Con BR-	Con NO3	Con HPO ₄	Con SO ₄	Method name	date time	Initial wt/Final Analyst
STD1	0.000	0.000	0.000	0.000	0.000	0.000	0.000	IC1-110325	11/3/2025 15:58	10 RM/IZ
STD2	0.417	0.655	0.659	2.182	0.549	0.953	3.345	IC1-110325	11/3/2025 16:22	10 RM/IZ
STD3	0.813	1.228	1.228	4.086	1.024	2.097	6.147	IC1-110325	11/3/2025 17:04	10 RM/IZ
STD4	1.014	1.491	1.496	4.984	1.245	2.506	7.444	IC1-110325	11/3/2025 17:47	10 RM/IZ
STD5	1.966	2.918	2.907	9.724	2.426	5.166	14.580	IC1-110325	11/3/2025 18:08	10 RM/IZ
STD6	3.912	5.914	5.907	19.694	4.918	9.286	29.234	IC1-110325	11/3/2025 18:30	10 RM/IZ
STD7	5.078	7.595	7.603	25.330	6.339	12.992	37.751	IC1-110325	11/3/2025 18:51	10 RM/IZ
ICV	1.960	2.885	2.908	9.698	2.364	5.176	14.547	IC1-110325	11/3/2025 19:13	10 RM/IZ
ICB	0.000	0.000	0.000	0.000	0.000	0.000	0.000	IC1-110325	11/3/2025 19:34	10 RM/IZ
CCV	2.085	3.124	3.115	10.429	2.591	5.037	15.425	IC1-110325	11/19/2025 9:10	10 RM/IZ
CCB	0.000	0.000	0.000	0.000	0.000	0.000	0.000	IC1-110325	11/19/2025 10:15	10 RM/IZ
LB137971BLS	0.000	0.000	0.000	0.000	0.000	0.000	0.000	IC1-110325	11/19/2025 10:36	5.00g/100mL RM/IZ
LB137971BSS	2.117	3.175	3.149	10.487	2.608	5.251	15.498	IC1-110325	11/19/2025 10:58	5.00g/100mL RM/IZ
Q3483-01	3.592	53.138	0.000	3.092	20.802	7.417	78.254	IC1-110325	11/19/2025 11:19	5.00g/100mL RM/IZ
Q3483-25	0.000	0.091	7.592	0.000	0.000	0.000	0.510	IC1-110325	11/19/2025 12:02	5.00g/100mL RM/IZ
Q3483-01DLX10	0.389	4.458	0.000	0.506	1.859	0.833	7.418	IC1-110325	11/19/2025 12:24	5.00g/100mL RM/IZ
Q3483-25DLX2	0.000	0.092	3.700	0.000	0.000	0.000	0.519	IC1-110325	11/19/2025 13:29	5.00g/100mL RM/IZ
CCV	2.088	3.130	3.124	10.468	2.592	5.132	15.498	IC1-110325	11/19/2025 13:50	10 RM/IZ
CCB	0.000	0.000	0.000	0.000	0.000	0.000	0.000	IC1-110325	11/19/2025 14:12	10 RM/IZ

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

Clear table

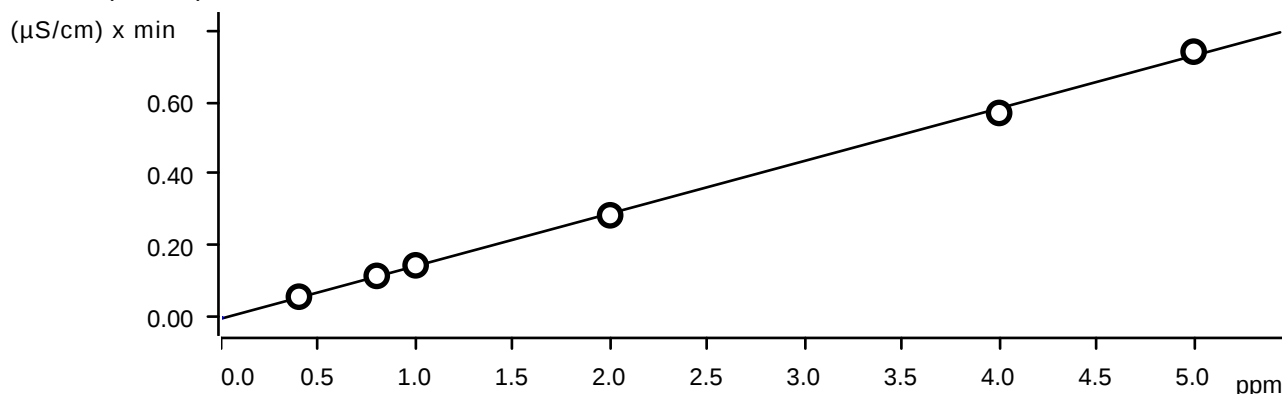
Instrument ID: IC-2 Analyst : IZ Method: 300.0 / 9056A											
ident	concentra tion F-	concentratio n CL-	concentrati on NO2	concentrati on BR-	concentrati on NO3	concentrati on HPO4	concentrati on SO4	file name	date time	Initial wt/ Final	Analyst
STD1	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	IC1-110325	11/3/2025 15:58	10	RM/IZ
STD2	0.4170	0.6550	0.6590	2.1820	0.5490	0.9530	3.3450	IC1-110325	11/3/2025 16:22	10	RM/IZ
STD3	0.8130	1.2280	1.2280	4.0860	1.0240	2.0970	6.1470	IC1-110325	11/3/2025 17:04	10	RM/IZ
STD4	1.0140	1.4910	1.4960	4.9840	1.2450	2.5060	7.4440	IC1-110325	11/3/2025 17:47	10	RM/IZ
STD5	1.9660	2.9180	2.9070	9.7240	2.4260	5.1660	14.5800	IC1-110325	11/3/2025 18:08	10	RM/IZ
STD6	3.9120	5.9140	5.9070	19.6940	4.9180	9.2860	29.2340	IC1-110325	11/3/2025 18:30	10	RM/IZ
STD7	5.0780	7.5950	7.6030	25.3300	6.3390	12.9920	37.7510	IC1-110325	11/3/2025 18:51	10	RM/IZ

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

ident	Relative Error F-	Relative Error CL-	Relative Error NO2	Relative Error BR-	Relative Error NO3	Relative Error HPO4	Relative Error SO4
STD1							
STD2	4.2500	9.1667	9.8333	9.1000	9.8000	-4.7000	11.5000
STD3	1.6250	2.3333	2.3333	2.1500	2.4000	4.8500	2.4500
STD4	1.4000	-0.6000	-0.2667	-0.3200	-0.4000	0.2400	-0.7467
STD5	-1.7000	-2.7333	-3.1000	-2.7600	-2.9600	3.3200	-2.8000
STD6	-2.2000	-1.4333	-1.5500	-1.5300	-1.6400	-7.1400	-2.5533
STD7	1.5600	1.2667	1.3733	1.3200	1.4240	3.9360	2.0297

1
2
3
4
5
6
7
8
9
10
11
12
13
14

Fluoride (Anions)

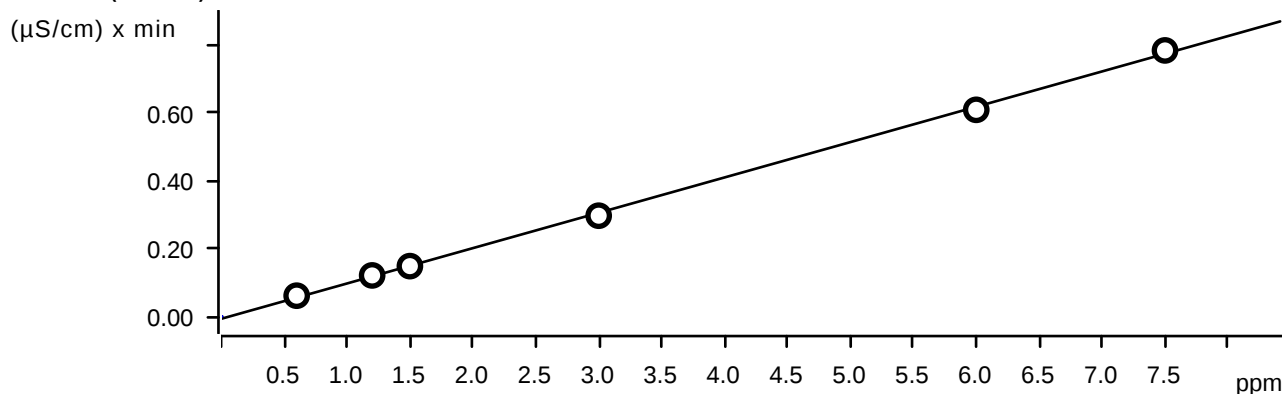
Function: $A = -3.63197E-3 + 0.0146595 \times Q$

Relative standard deviation 2.880512 %

Correlation coefficient 0.999558

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	2025-11-03 15:58:57 UTC-5	used
Standard 2	1	0.400	10.0	1.0	1.0	0.058	STD2	2025-11-03 16:22:03 UTC-5	used
Standard 3	1	0.800	10.0	1.0	1.0	0.116	STD3	2025-11-03 17:04:52 UTC-5	used
Standard 4	1	1.000	10.0	1.0	1.0	0.145	STD4	2025-11-03 17:47:32 UTC-5	used
Standard 5	1	2.000	10.0	1.0	1.0	0.285	STD5	2025-11-03 18:08:59 UTC-5	used
Standard 6	1	4.000	10.0	1.0	1.0	0.570	STD6	2025-11-03 18:30:25 UTC-5	used
Standard 7	1	5.000	10.0	1.0	1.0	0.741	STD7	2025-11-03 18:51:52 UTC-5	used

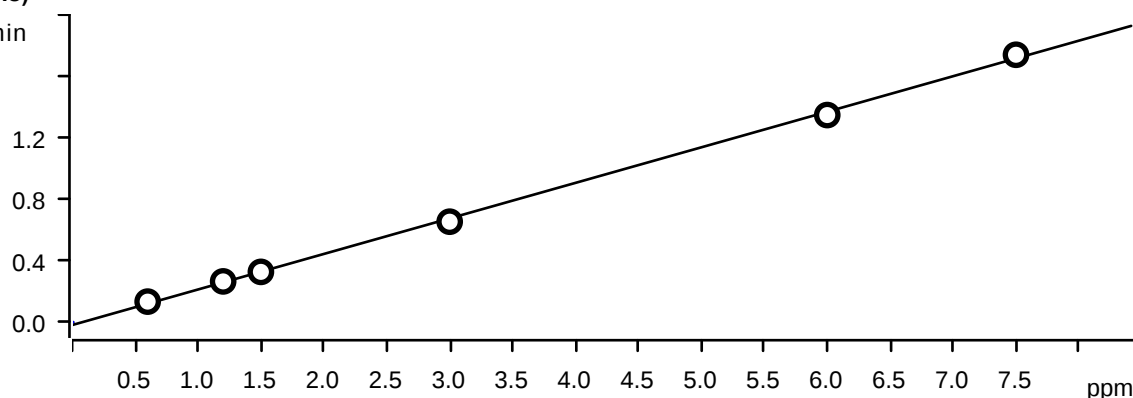
Chloride (Anions)

Function: $A = -7.14286E-3 + 0.0104011 \times Q$

Relative standard deviation 2.544562 %

Correlation coefficient 0.999662

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	2025-11-03 15:58:57 UTC-5	used
Standard 2	1	0.600	10.0	1.0	1.0	0.061	STD2	2025-11-03 16:22:03 UTC-5	used
Standard 3	1	1.200	10.0	1.0	1.0	0.121	STD3	2025-11-03 17:04:52 UTC-5	used
Standard 4	1	1.500	10.0	1.0	1.0	0.148	STD4	2025-11-03 17:47:32 UTC-5	used
Standard 5	1	3.000	10.0	1.0	1.0	0.296	STD5	2025-11-03 18:08:59 UTC-5	used
Standard 6	1	6.000	10.0	1.0	1.0	0.608	STD6	2025-11-03 18:30:25 UTC-5	used
Standard 7	1	7.500	10.0	1.0	1.0	0.783	STD7	2025-11-03 18:51:52 UTC-5	used

Nitrite (Anions) $(\mu\text{S}/\text{cm}) \times \text{min}$ Function: $A = -0.0188106 + 0.0231263 \times Q$

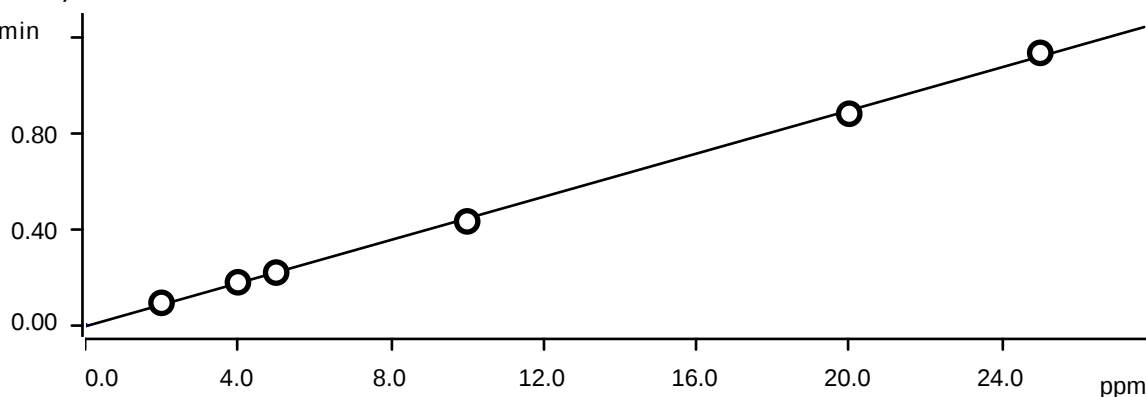
Relative standard deviation 2.785229 %

Correlation coefficient 0.999598

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	2025-11-03 15:58:57 UTC-5	used
Standard 2	1	0.600	10.0	1.0	1.0	0.134	STD2	2025-11-03 16:22:03 UTC-5	used
Standard 3	1	1.200	10.0	1.0	1.0	0.265	STD3	2025-11-03 17:04:52 UTC-5	used
Standard 4	1	1.500	10.0	1.0	1.0	0.327	STD4	2025-11-03 17:47:32 UTC-5	used
Standard 5	1	3.000	10.0	1.0	1.0	0.654	STD5	2025-11-03 18:08:59 UTC-5	used
Standard 6	1	6.000	10.0	1.0	1.0	1.347	STD6	2025-11-03 18:30:25 UTC-5	used
Standard 7	1	7.500	10.0	1.0	1.0	1.740	STD7	2025-11-03 18:51:52 UTC-5	used

Bromide (Anions)

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



Function: $A = -8.73633E-3 + 4.51609E-3 \times Q$

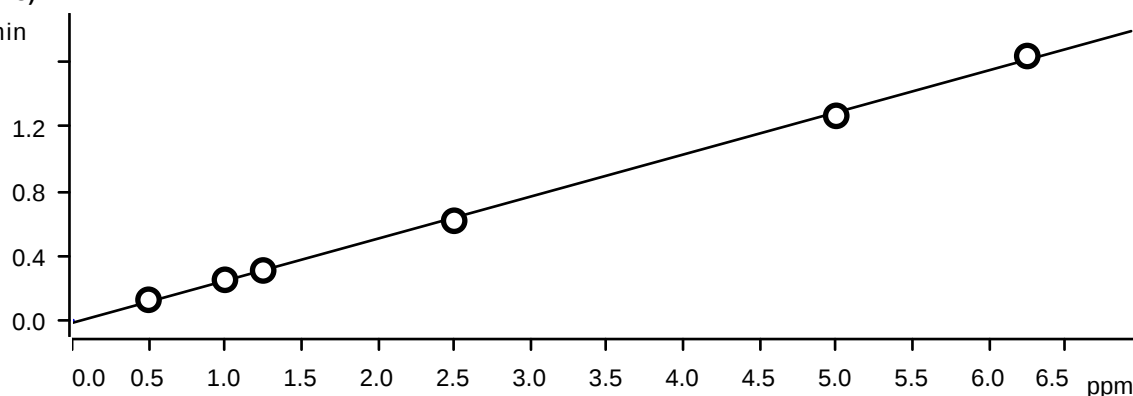
Relative standard deviation: 2.618377 %

Correlation coefficient: 0.999640

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	2025-11-03 15:58:57 UTC-5	used
Standard 2	1	2.000	10.0	1.0	1.0	0.090	STD2	2025-11-03 16:22:03 UTC-5	used
Standard 3	1	4.000	10.0	1.0	1.0	0.176	STD3	2025-11-03 17:04:52 UTC-5	used
Standard 4	1	5.000	10.0	1.0	1.0	0.216	STD4	2025-11-03 17:47:32 UTC-5	used
Standard 5	1	10.000	10.0	1.0	1.0	0.430	STD5	2025-11-03 18:08:59 UTC-5	used
Standard 6	1	20.000	10.0	1.0	1.0	0.881	STD6	2025-11-03 18:30:25 UTC-5	used
Standard 7	1	25.000	10.0	1.0	1.0	1.135	STD7	2025-11-03 18:51:52 UTC-5	used

Nitrate (Anions)

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



Function: $A = -0.0164240 + 0.0260850 \times Q$

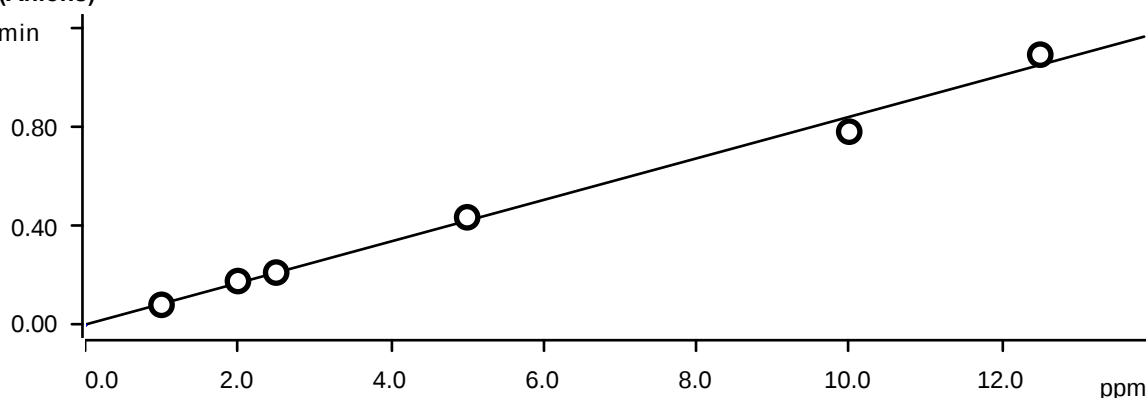
Relative standard deviation: 2.824357 %

Correlation coefficient 0.999585

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	2025-11-03 15:58:57 UTC-5	used
Standard 2	1	0.500	10.0	1.0	1.0	0.127	STD2	2025-11-03 16:22:03 UTC-5	used
Standard 3	1	1.000	10.0	1.0	1.0	0.251	STD3	2025-11-03 17:04:52 UTC-5	used
Standard 4	1	1.250	10.0	1.0	1.0	0.308	STD4	2025-11-03 17:47:32 UTC-5	used
Standard 5	1	2.500	10.0	1.0	1.0	0.616	STD5	2025-11-03 18:08:59 UTC-5	used
Standard 6	1	5.000	10.0	1.0	1.0	1.266	STD6	2025-11-03 18:30:25 UTC-5	used
Standard 7	1	6.250	10.0	1.0	1.0	1.637	STD7	2025-11-03 18:51:52 UTC-5	used

Phosphate (Anions)

(μS/cm) x min

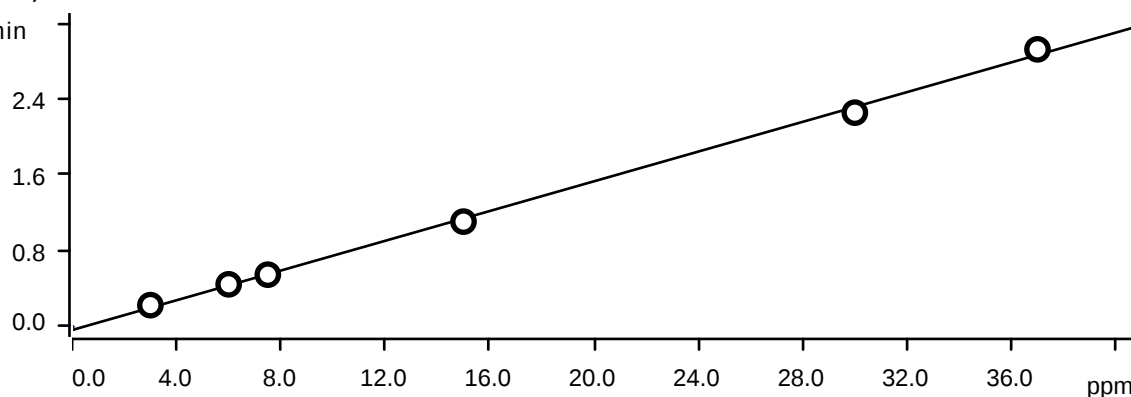
Function: $A = 1.95294E-3 + 8.36815E-3 \times Q$

Relative standard deviation 8.053642 %

Correlation coefficient 0.996454

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	2025-11-03 15:58:57 UTC-5	used
Standard 2	1	1.000	10.0	1.0	1.0	0.082	STD2	2025-11-03 16:22:03 UTC-5	used
Standard 3	1	2.000	10.0	1.0	1.0	0.177	STD3	2025-11-03 17:04:52 UTC-5	used
Standard 4	1	2.500	10.0	1.0	1.0	0.212	STD4	2025-11-03 17:47:32 UTC-5	used
Standard 5	1	5.000	10.0	1.0	1.0	0.434	STD5	2025-11-03 18:08:59 UTC-5	used
Standard 6	1	10.000	10.0	1.0	1.0	0.779	STD6	2025-11-03 18:30:25 UTC-5	used
Standard 7	1	12.500	10.0	1.0	1.0	1.089	STD7	2025-11-03 18:51:52 UTC-5	used

Sulfate (Anions)

 $(\mu\text{S}/\text{cm}) \times \text{min}$ Function: $A = -0.0341972 + 7.83080E-3 \times Q$

Relative standard deviation 3.795793 %

Correlation coefficient 0.999249

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	2025-11-03 15:58:57 UTC-5	used
Standard 2	1	3.000	10.0	1.0	1.0	0.228	STD2	2025-11-03 16:22:03 UTC-5	used
Standard 3	1	6.000	10.0	1.0	1.0	0.447	STD3	2025-11-03 17:04:52 UTC-5	used
Standard 4	1	7.500	10.0	1.0	1.0	0.549	STD4	2025-11-03 17:47:32 UTC-5	used
Standard 5	1	15.000	10.0	1.0	1.0	1.108	STD5	2025-11-03 18:08:59 UTC-5	used
Standard 6	1	30.000	10.0	1.0	1.0	2.255	STD6	2025-11-03 18:30:25 UTC-5	used
Standard 7	1	37.000	10.0	1.0	1.0	2.922	STD7	2025-11-03 18:51:52 UTC-5	used

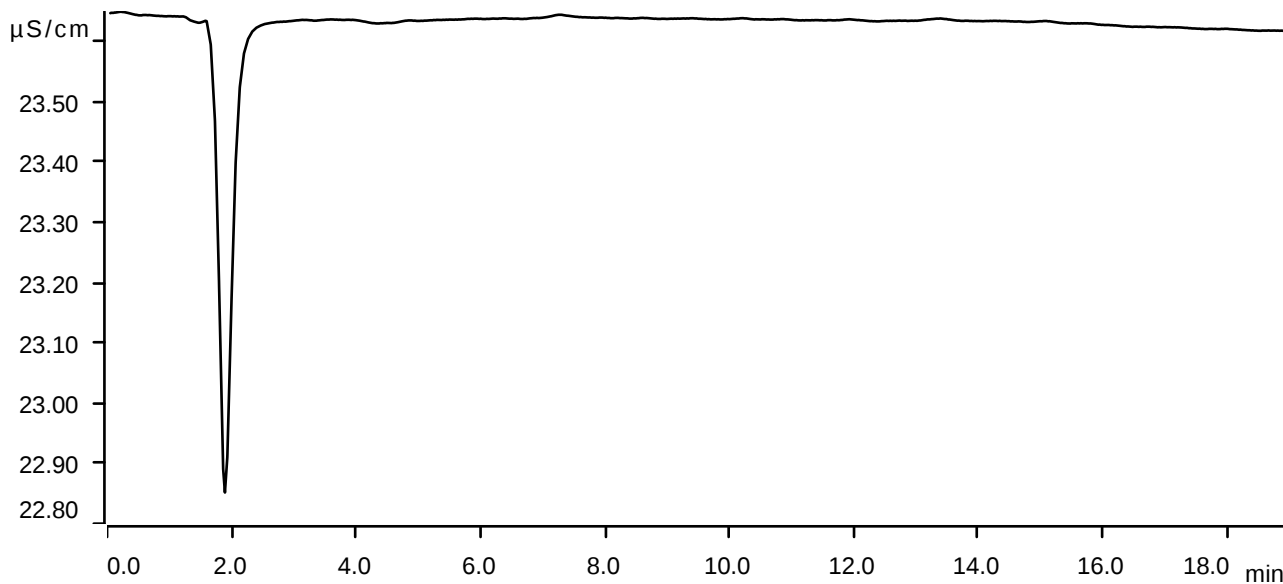
Sample data

Ident STD1
Sample type Standard 1
Determination start 2025-11-03 15:58:57 UTC-5
Method IC1-110325
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



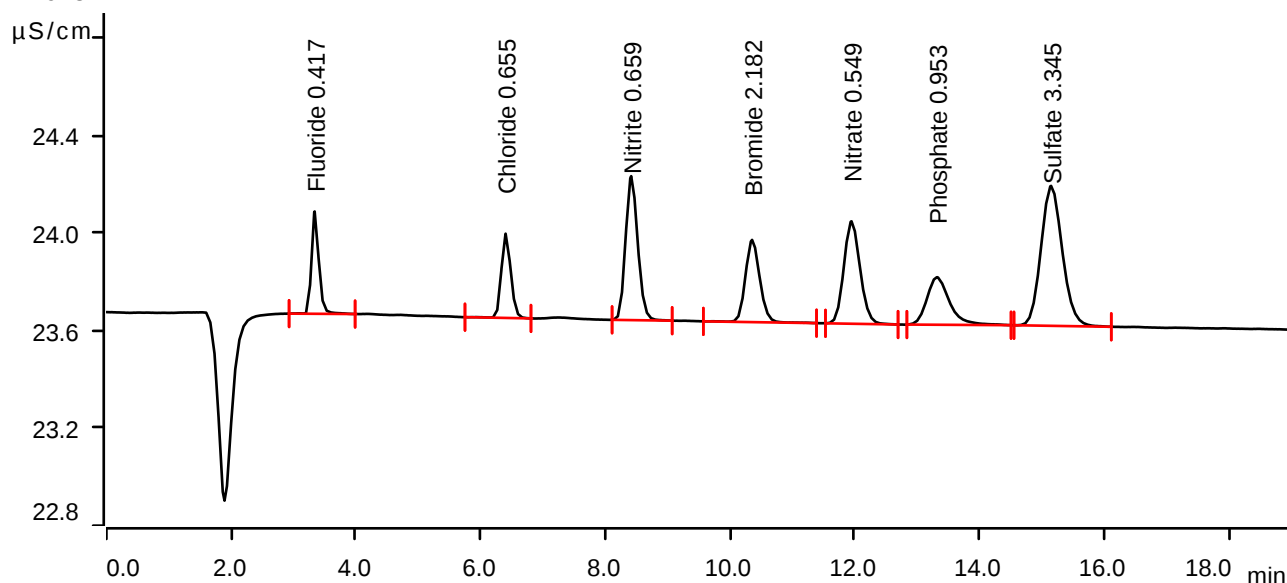
Sample data

Ident STD2
Sample type Standard 2
Determination start 2025-11-03 16:22:03 UTC-5
Method IC1-110325
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	3.340	0.0576	0.420	0.417	Fluoride
2	6.402	0.0609	0.345	0.655	Chloride
3	8.415	0.1336	0.590	0.659	Nitrite
4	10.353	0.0898	0.337	2.182	Bromide
5	11.947	0.1268	0.420	0.549	Nitrate
6	13.317	0.0817	0.195	0.953	Phosphate
7	15.147	0.2277	0.574	3.345	Sulfate

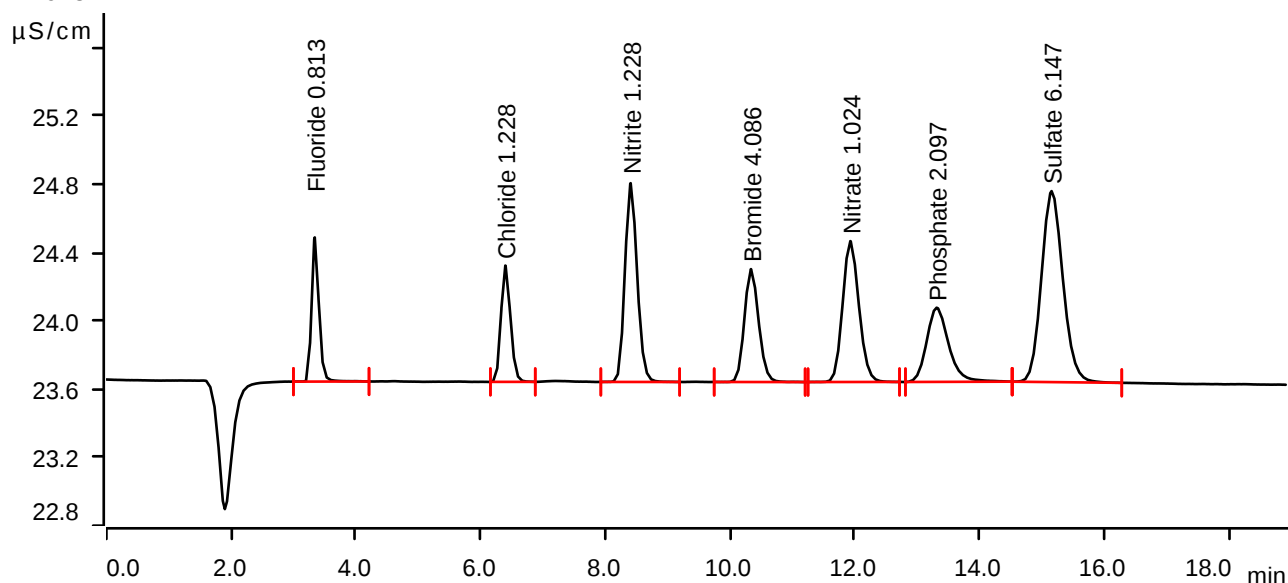
Sample data

Ident STD3
Sample type Standard 3
Determination start 2025-11-03 17:04:52 UTC-5
Method IC1-110325
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	3.342	0.1156	0.844	0.813	Fluoride
2	6.397	0.1206	0.681	1.228	Chloride
3	8.407	0.2651	1.164	1.228	Nitrite
4	10.337	0.1758	0.661	4.086	Bromide
5	11.928	0.2506	0.825	1.024	Nitrate
6	13.312	0.1774	0.435	2.097	Phosphate
7	15.155	0.4471	1.119	6.147	Sulfate

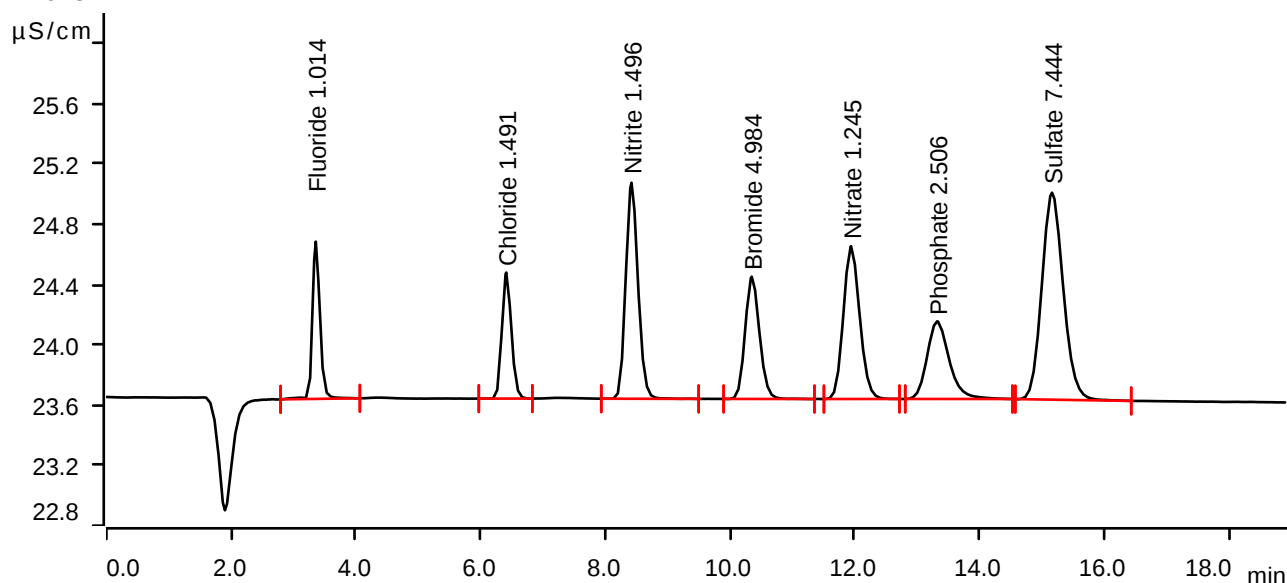
Sample data

Ident STD4
Sample type Standard 4
Determination start 2025-11-03 17:47:32 UTC-5
Method IC1-110325
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	3.358	0.1450	1.044	1.014	Fluoride
2	6.412	0.1479	0.837	1.491	Chloride
3	8.420	0.3271	1.434	1.496	Nitrite
4	10.348	0.2164	0.811	4.984	Bromide
5	11.940	0.3084	1.014	1.245	Nitrate
6	13.320	0.2117	0.516	2.506	Phosphate
7	15.162	0.5487	1.374	7.444	Sulfate

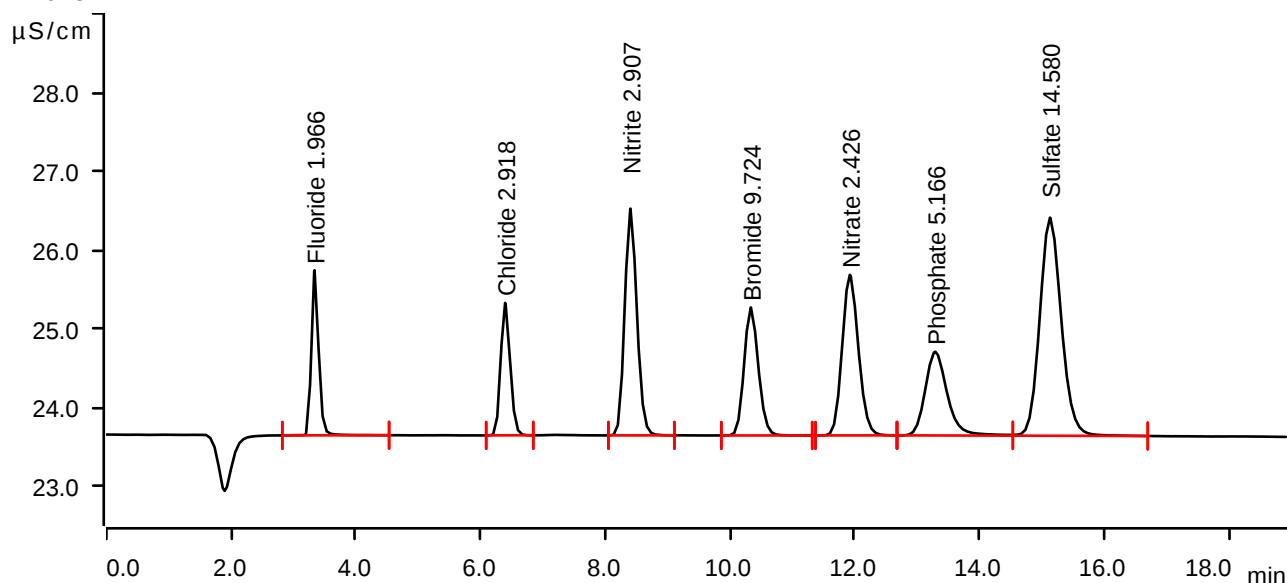
Sample data

Ident STD5
Sample type Standard 5
Determination start 2025-11-03 18:08:59 UTC-5
Method IC1-110325
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	3.338	0.2845	2.095	1.966	Fluoride
2	6.393	0.2963	1.681	2.918	Chloride
3	8.403	0.6535	2.878	2.907	Nitrite
4	10.332	0.4304	1.624	9.724	Bromide
5	11.920	0.6163	2.038	2.426	Nitrate
6	13.290	0.4342	1.063	5.166	Phosphate
7	15.128	1.1075	2.767	14.580	Sulfate

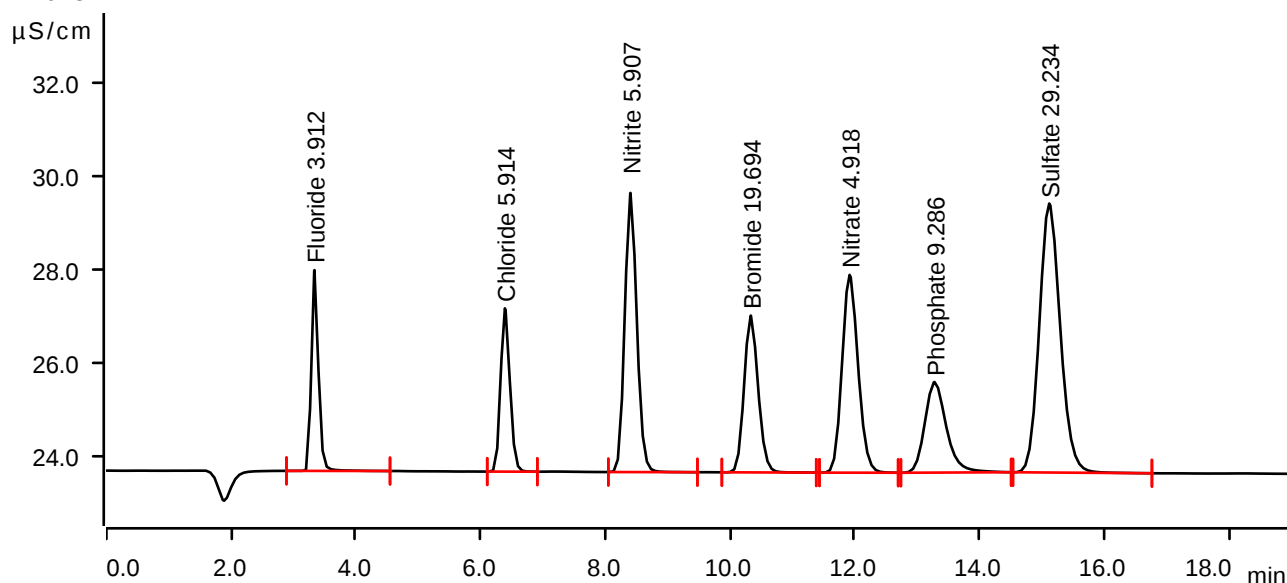
Sample data

Ident STD6
Sample type Standard 6
Determination start 2025-11-03 18:30:25 UTC-5
Method IC1-110325
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	3.337	0.5698	4.312	3.912	Fluoride
2	6.390	0.6080	3.506	5.914	Chloride
3	8.403	1.3473	5.995	5.907	Nitrite
4	10.330	0.8806	3.367	19.694	Bromide
5	11.917	1.2665	4.248	4.918	Nitrate
6	13.278	0.7790	1.945	9.286	Phosphate
7	15.117	2.2550	5.777	29.234	Sulfate

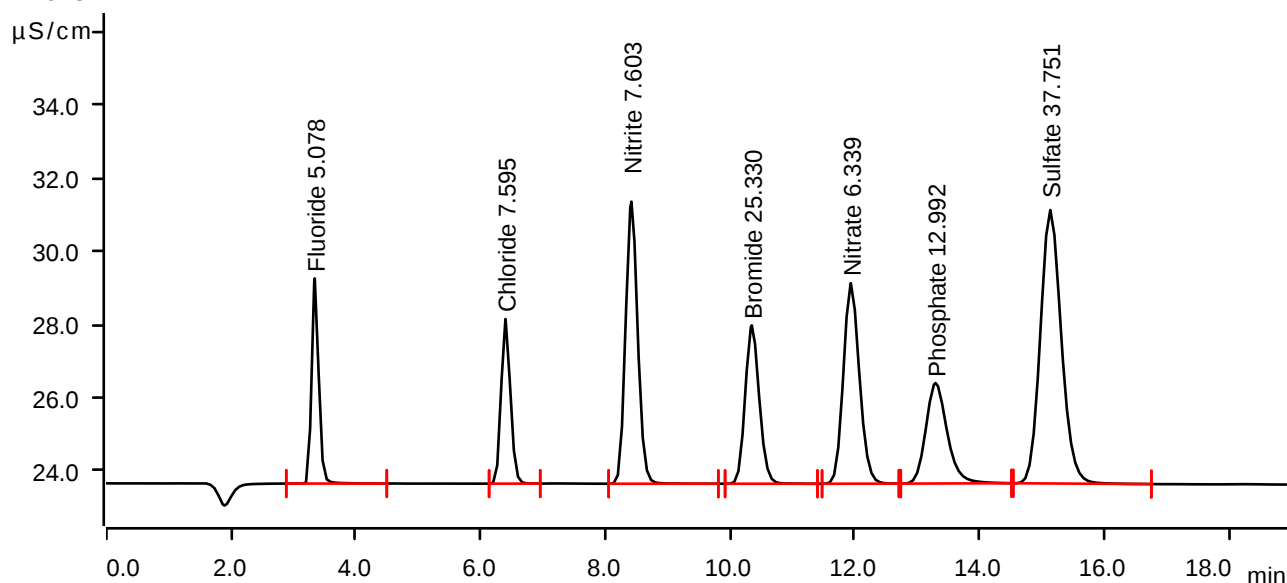
Sample data

Ident STD7
Sample type Standard 7
Determination start 2025-11-03 18:51:52 UTC-5
Method IC1-110325
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	3.342	0.7408	5.606	5.078	Fluoride
2	6.398	0.7828	4.499	7.595	Chloride
3	8.418	1.7395	7.709	7.603	Nitrite
4	10.348	1.1352	4.330	25.330	Bromide
5	11.937	1.6370	5.482	6.339	Nitrate
6	13.295	1.0891	2.746	12.992	Phosphate
7	15.133	2.9220	7.473	37.751	Sulfate

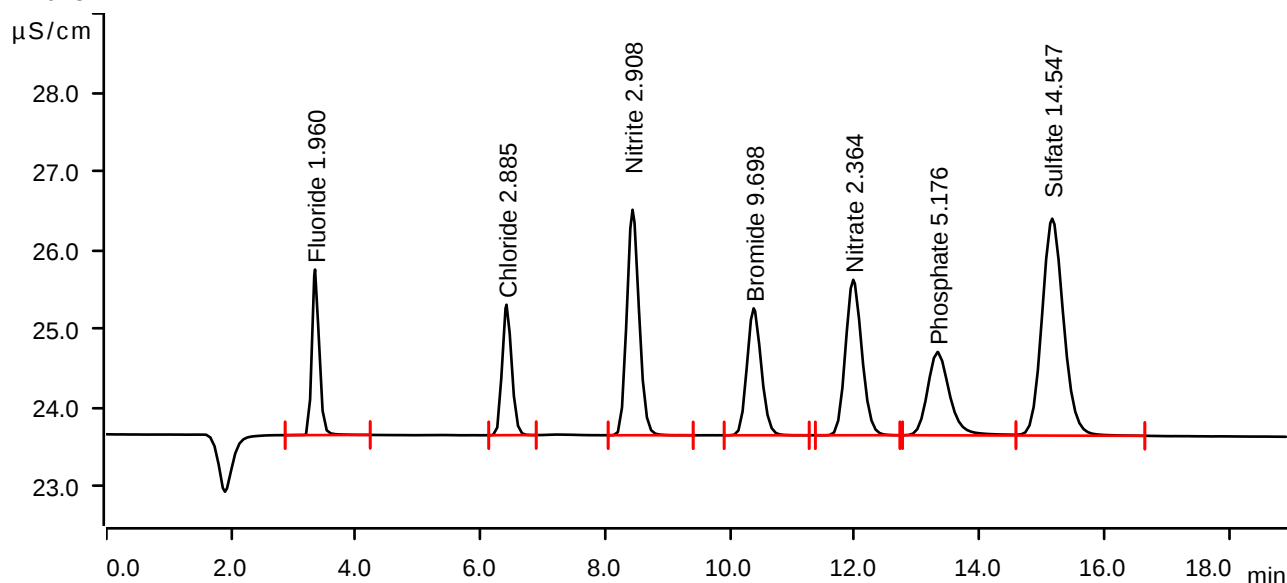
Sample data

Ident ICV
Sample type Check standard 1
Determination start 2025-11-03 19:13:20 UTC-5
Method IC1-110325
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



Peak number	Retention time min	Area (µS/cm) x min	Height µS/cm	Concentration ppm	Component name
1	3.347	0.2837	2.100	1.960	Fluoride
2	6.417	0.2929	1.656	2.885	Chloride
3	8.437	0.6536	2.862	2.908	Nitrite
4	10.378	0.4292	1.611	9.698	Bromide
5	11.975	0.6003	1.973	2.364	Nitrate
6	13.327	0.4351	1.058	5.176	Phosphate
7	15.165	1.1050	2.753	14.547	Sulfate

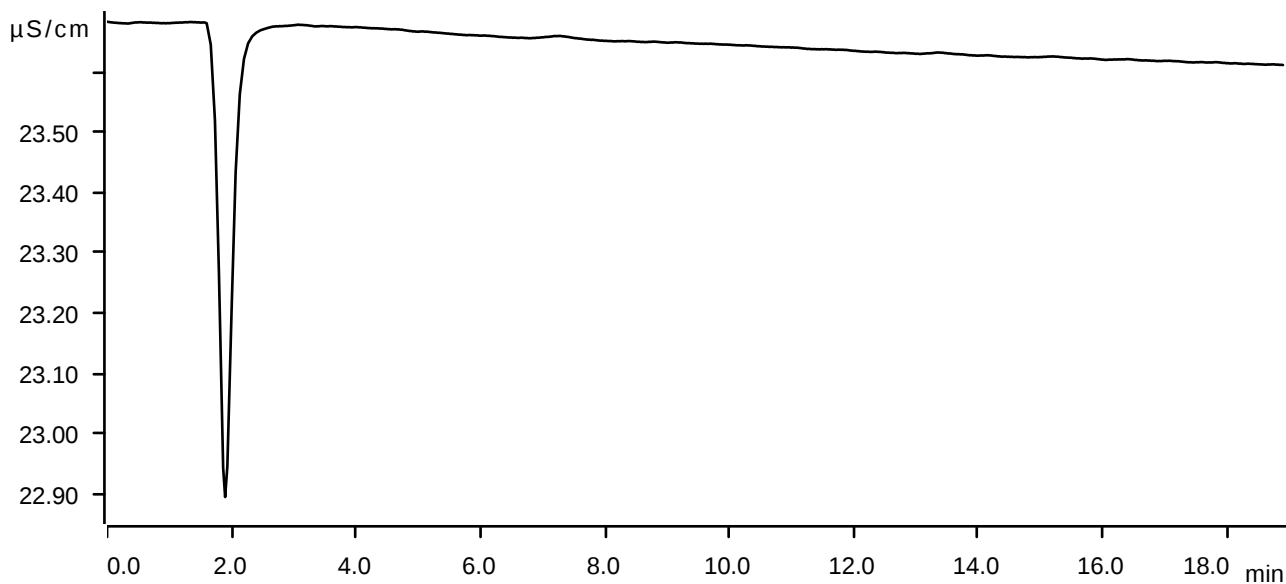
Sample data

Ident ICB
Sample type Sample
Determination start 2025-11-03 19:34:48 UTC-5
Method IC1-110325
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



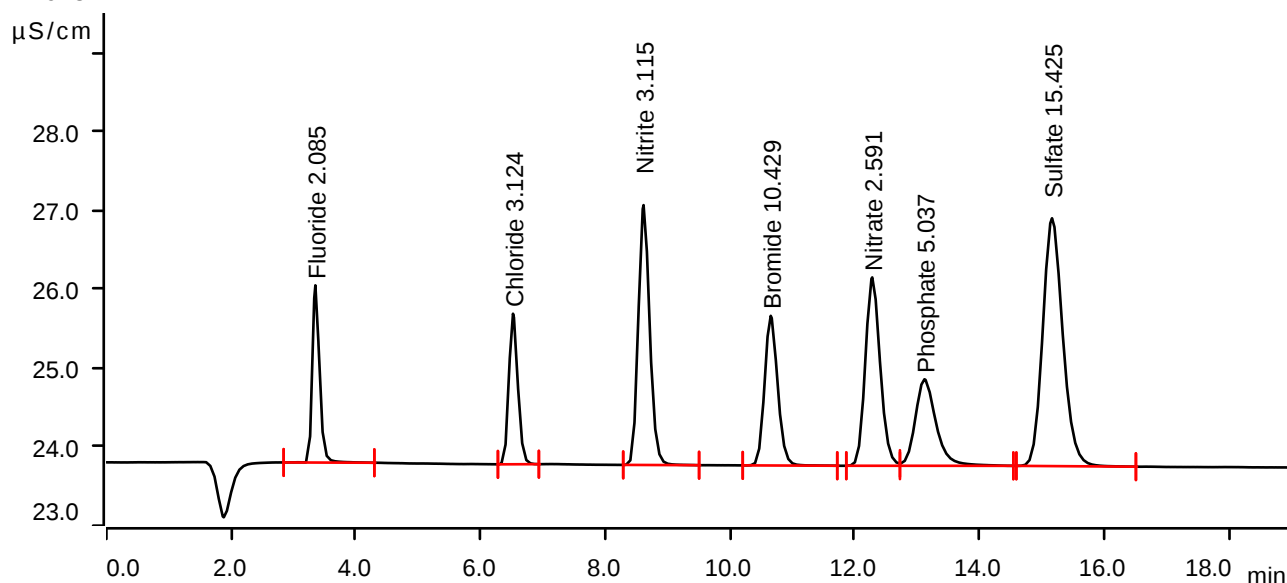
Sample data

Ident CCV
Sample type Check standard 1
Determination start 2025-11-19 09:10:39 UTC-5
Method IC1-110325
Operator

Anions

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

Anions



Peak number	Retention time min	Area (µS/cm) x min	Height µS/cm	Concentration ppm	Component name
1	3.352	0.3020	2.248	2.085	Fluoride
2	6.520	0.3178	1.910	3.124	Chloride
3	8.613	0.7015	3.297	3.115	Nitrite
4	10.652	0.4622	1.899	10.429	Bromide
5	12.280	0.6594	2.391	2.591	Nitrate
6	13.117	0.4235	1.098	5.037	Phosphate
7	15.162	1.1737	3.145	15.425	Sulfate

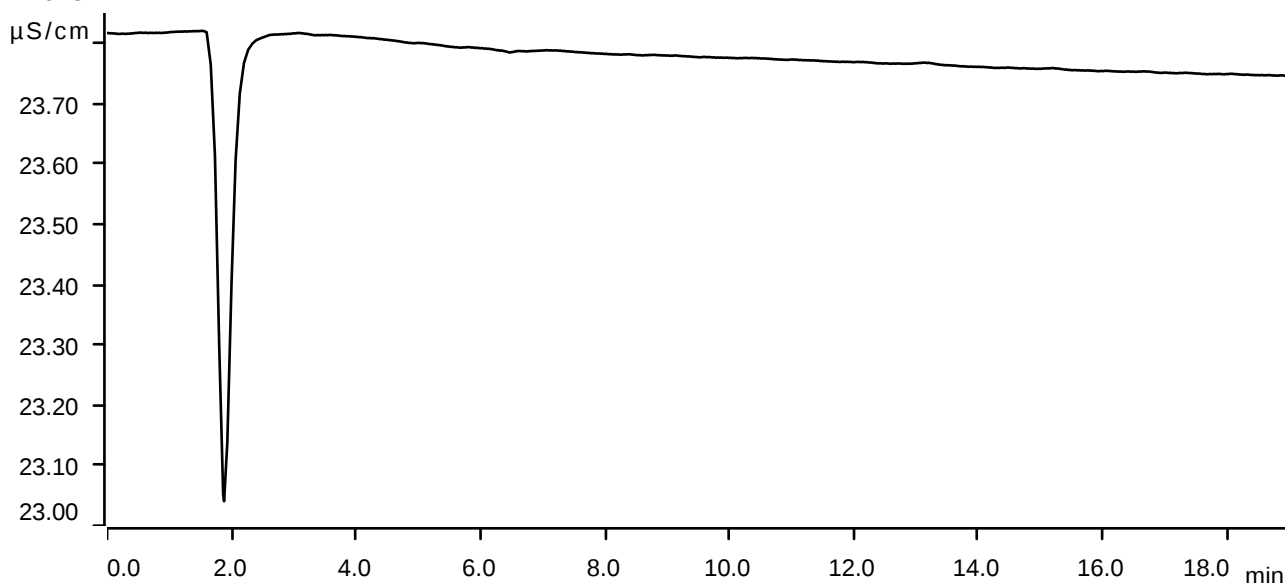
Sample data

Ident CCB
Sample type Sample
Determination start 2025-11-19 10:15:12 UTC-5
Method IC1-110325
Operator

Anions

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

Anions



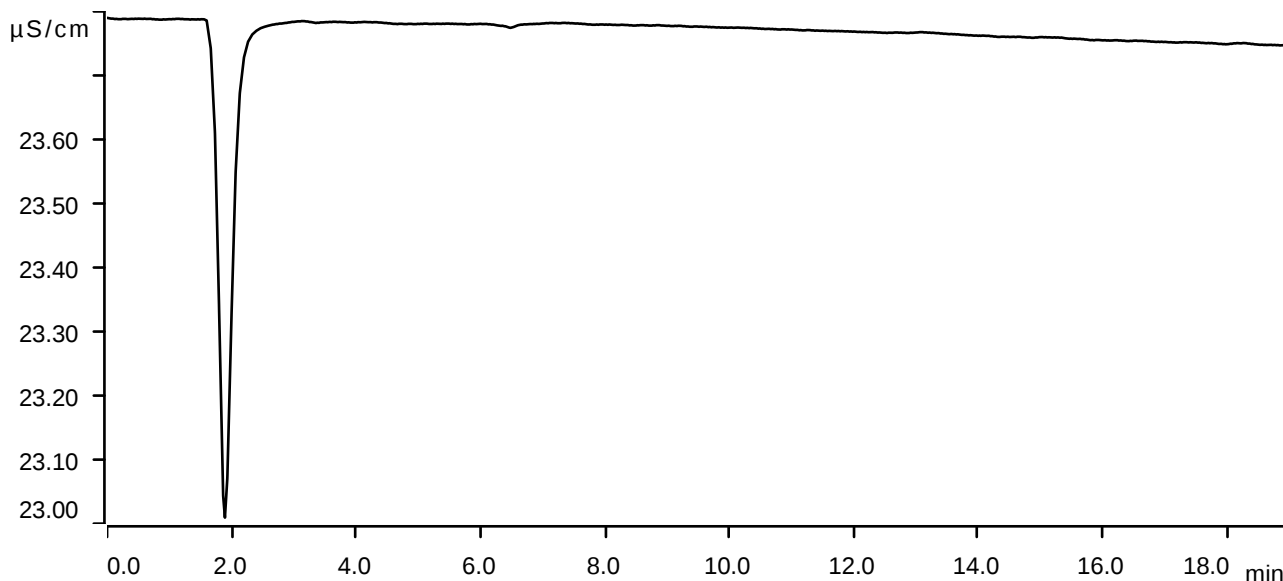
Sample data

Ident LB137971BLS
Sample type Sample
Determination start 2025-11-19 10:36:42 UTC-5
Method IC1-110325
Operator

Anions

Data source Conductivity detector 1 (Eco IC 1)
Channel Conductivity
Recording time 19.0 min
Integration Automatically
Column type Metrosep A Supp 19 - 150/4.0
Eluent composition not defined
Flow 0.700 mL/min
Maximum flow monitored yes
Pressure 11.49 MPa
Maximum pressure monitored yes
Temperature ---- °C

Anions



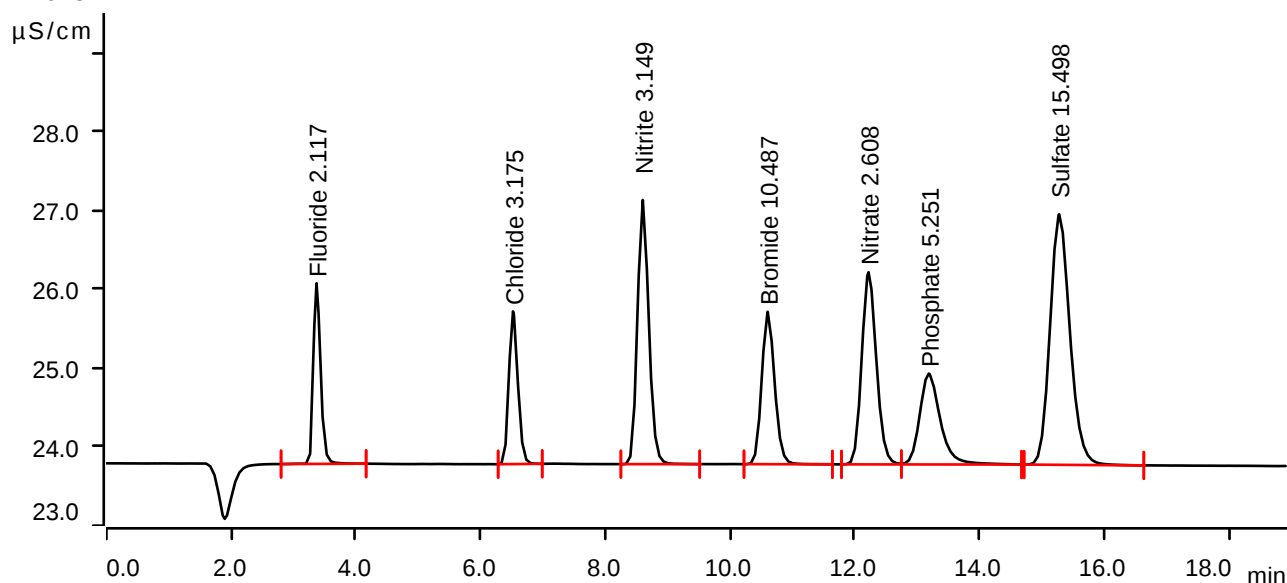
Sample data

Ident LB137971BSS
Sample type Check standard 1
Determination start 2025-11-19 10:58:14 UTC-5
Method IC1-110325
Operator

Anions

Data source Conductivity detector 1 (Eco IC 1)
Channel Conductivity
Recording time 19.0 min
Integration Automatically
Column type Metrosep A Supp 19 - 150/4.0
Eluent composition not defined
Flow 0.700 mL/min
Maximum flow monitored yes
Pressure 11.49 MPa
Maximum pressure monitored yes
Temperature ---- °C

Anions



Peak number	Retention time min	Area (µS/cm) x min	Height µS/cm	Concentration ppm	Component name
1	3.370	0.3068	2.293	2.117	Fluoride
2	6.520	0.3230	1.937	3.175	Chloride
3	8.600	0.7094	3.352	3.149	Nitrite
4	10.603	0.4649	1.934	10.487	Bromide
5	12.220	0.6638	2.439	2.608	Nitrate
6	13.185	0.4414	1.153	5.251	Phosphate
7	15.277	1.1795	3.179	15.498	Sulfate

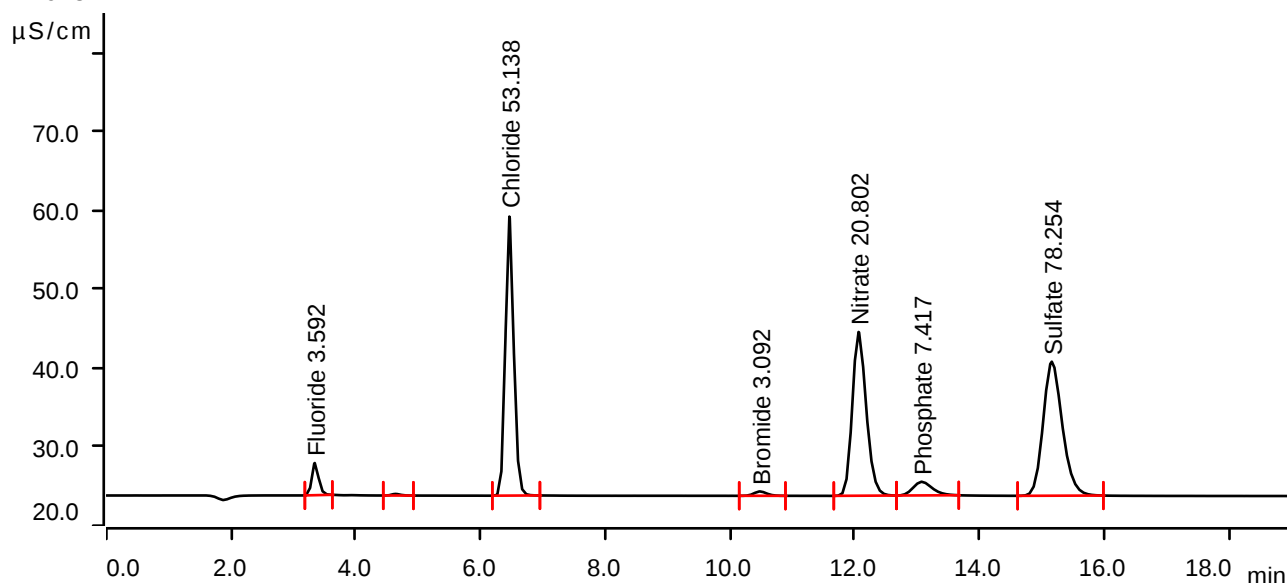
Sample data

Ident Q3483-01
Sample type Sample
Determination start 2025-11-19 11:19:46 UTC-5
Method IC1-110325
Operator

Anions

Data source Conductivity detector 1 (Eco IC 1)
Channel Conductivity
Recording time 19.0 min
Integration Automatically
Column type Metrosep A Supp 19 - 150/4.0
Eluent composition not defined
Flow 0.700 mL/min
Maximum flow monitored yes
Pressure 11.43 MPa
Maximum pressure monitored yes
Temperature ---- °C

Anions



Peak number	Retention time min	Area (µS/cm) x min	Height µS/cm	Concentration ppm	Component name
1	3.342	0.5229	4.082	3.592	Fluoride
2	4.637	0.0326	0.204	invalid	
3	6.462	5.5197	35.408	53.138	Chloride
4	10.480	0.1309	0.552	3.092	Bromide
5	12.060	5.4097	20.782	20.802	Nitrate
6	13.073	0.6226	1.732	7.417	Phosphate
7	15.158	6.0937	17.008	78.254	Sulfate

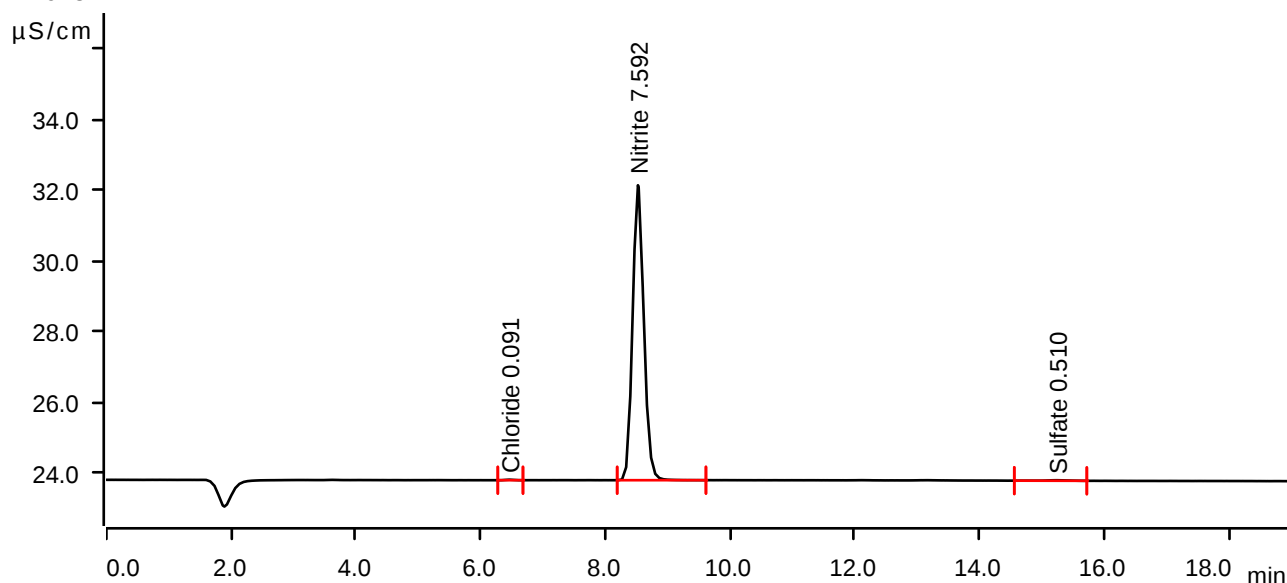
Sample data

Ident Q3483-25
Sample type Sample
Determination start 2025-11-19 12:02:54 UTC-5
Method IC1-110325
Operator

Anions

Data source Conductivity detector 1 (Eco IC 1)
Channel Conductivity
Recording time 19.0 min
Integration Automatically
Column type Metrosep A Supp 19 - 150/4.0
Eluent composition not defined
Flow 0.700 mL/min
Maximum flow monitored yes
Pressure 11.32 MPa
Maximum pressure monitored yes
Temperature ---- °C

Anions



Peak number	Retention time min	Area (µS/cm) x min	Height µS/cm	Concentration ppm	Component name
1	6.457	0.0024	0.015	0.091	Chloride
2	8.523	1.7371	8.349	7.592	Nitrite
3	15.237	0.0057	0.015	0.510	Sulfate

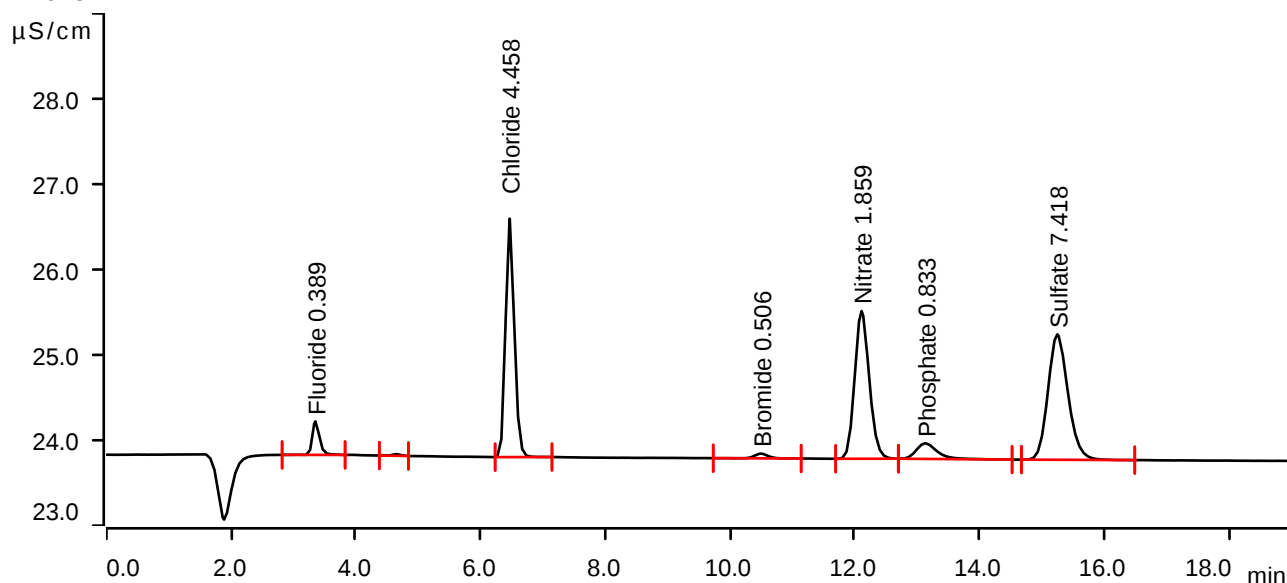
Sample data

Ident Q3483-01DLX10
Sample type Sample
Determination start 2025-11-19 12:24:28 UTC-5
Method IC1-110325
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	3.352	0.0535	0.393	0.389	Fluoride
2	4.652	0.0030	0.019	invalid	
3	6.465	0.4565	2.792	4.458	Chloride
4	10.500	0.0141	0.056	0.506	Bromide
5	12.108	0.4685	1.731	1.859	Nitrate
6	13.130	0.0717	0.184	0.833	Phosphate
7	15.247	0.5467	1.469	7.418	Sulfate

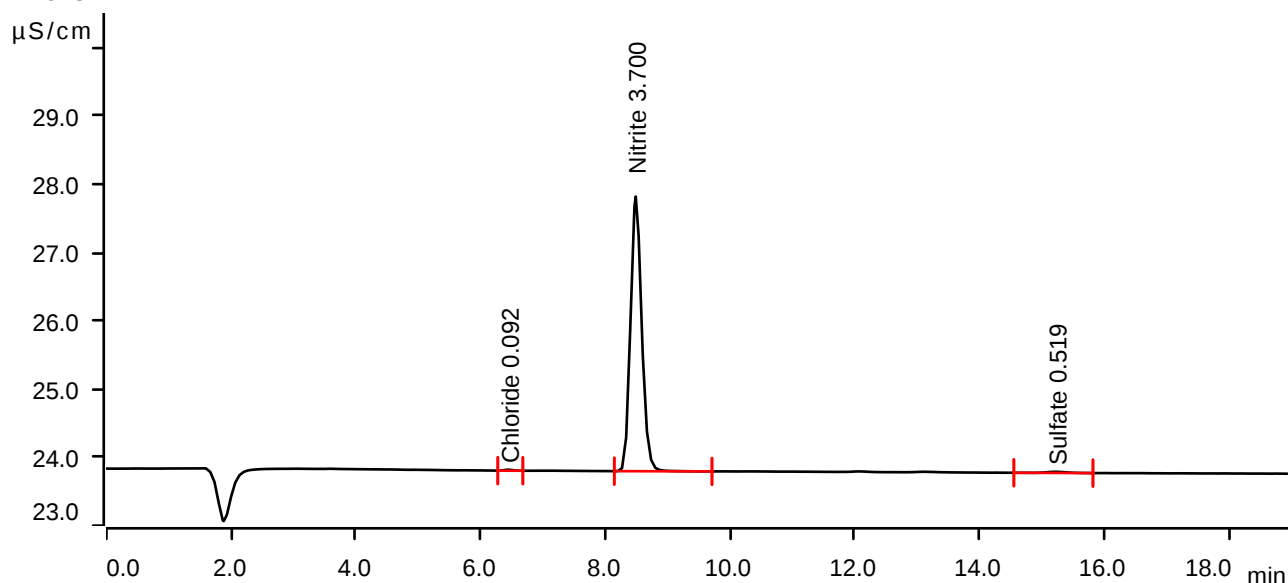
Sample data

Ident Q3483-25DLX2
Sample type Sample
Determination start 2025-11-19 13:29:13 UTC-5
Method IC1-110325
Operator

Anions

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

Anions



Peak number	Retention time min	Area (µS/cm) x min	Height µS/cm	Concentration ppm	Component name
1	6.450	0.0024	0.015	0.092	Chloride
2	8.488	0.8368	4.022	3.700	Nitrite
3	15.232	0.0064	0.017	0.519	Sulfate

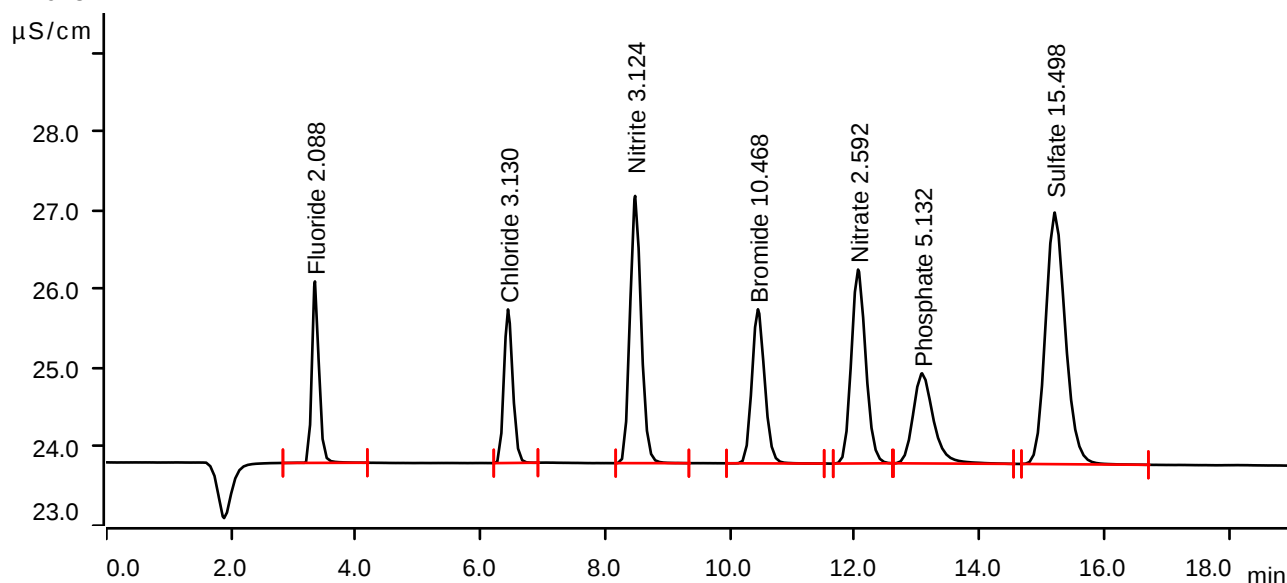
Sample data

Ident CCV
Sample type Check standard 1
Determination start 2025-11-19 13:50:46 UTC-5
Method IC1-110325
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



Peak number	Retention time min	Area (µS/cm) x min	Height µS/cm	Concentration ppm	Component name
1	3.345	0.3025	2.302	2.088	Fluoride
2	6.440	0.3184	1.949	3.130	Chloride
3	8.478	0.7037	3.391	3.124	Nitrite
4	10.447	0.4640	1.956	10.468	Bromide
5	12.052	0.6598	2.461	2.592	Nitrate
6	13.078	0.4314	1.143	5.132	Phosphate
7	15.205	1.1794	3.193	15.498	Sulfate

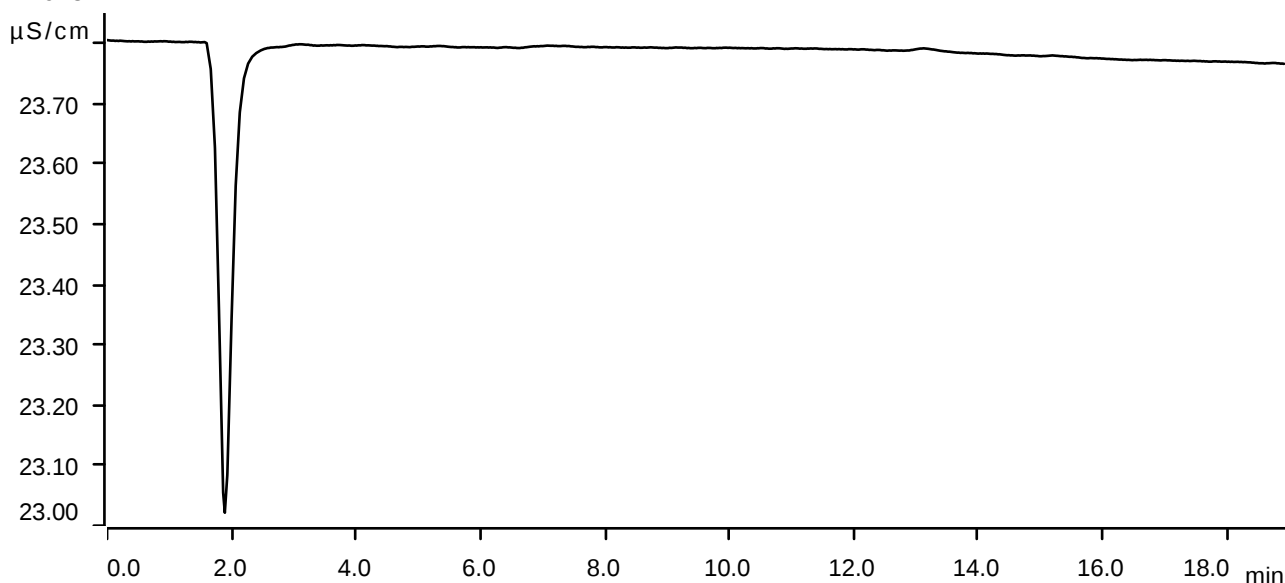
Sample data

Ident CCB
Sample type Sample
Determination start 2025-11-19 14:12:16 UTC-5
Method IC1-110325
Operator

Anions

Data source Conductivity detector 1 (Eco IC 1)
Channel Conductivity
Recording time 19.0 min
Integration Automatically
Column type Metrosep A Supp 19 - 150/4.0
Eluent composition not defined
Flow 0.700 mL/min
Maximum flow monitored yes
Pressure 11.26 MPa
Maximum pressure monitored yes
Temperature ---- °C

Anions



WORKLIST(Hardcopy Internal Chain)

WorkList Name : Anions-111925 WorkList ID : 193392 Department : Wet-Chemistry Date : 11-19-2025 09:18:23

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q3483-01	HW1025-PT-AN-SOIL	Solid	Anions Group1	1:1 HNO3 to pH < 2	ALLI03	QA Of	10/27/2025	9056A
Q3483-25	HW1025-PT-NO2-SOIL	Solid	Anions Group2	1:1 HNO3 to pH < 2	ALLI03	QA Of	10/27/2025	9056A

Date/Time 11/19/25 09:25
Raw Sample Received by: R (C)
Raw Sample Relinquished by: SL (QA-Off)

Date/Time NA
Raw Sample Received by: "
Raw Sample Relinquished by: (1

Sample ID	Result	Std. Dev.	RSD	Mode	ALT
CCV1	981.0674			TOC	
CCV1	956.8637			TOC	
CCV1	993.9658			TOC	
CCV1.....	997.5524...	..	...	TOC	..
CCB1	4.5956			TOC	
CCB1	3.0895			TOC	
CCB1.....	2.0009...	..	...	TOC	..
CCB1	4.2118			TOC	
LB137983BLS	4.8804			TOC	
LB137983BLS.....	20.4388...	..	...	TOC	..
LB137983BLS	3.1016			TOC	
LB137983BLS	0.5480			TOC	
LB137983BSS.....	1007.6947...	..	...	TOC	..
LB137983BSS	1017.8107			TOC	
LB137983BSS	959.2139			TOC	
LB137983BSS.....	1015.7061...	..	...	TOC	..
Q3530-03	41.5433			TOC	
Q3530-03	47.8788			TOC	
Q3530-03.....	44.5140...	..	...	TOC	..
Q3530-03	46.5903			TOC	
Q3483-07	14225.2969			TOC	
Q3483-07.....	15132.8350...	..	...	TOC	..
Q3483-07	13856.6865			TOC	
Q3483-07	14178.4189			TOC	
CCV2.....	1016.8253...	..	...	TOC	..
CCV2	1016.3446			TOC	
CCV2	1001.3252			TOC	
CCV2.....	1025.5752...	..	...	TOC	..
CCB2	0.8672			TOC	
CCB2	3.8983			TOC	
CCB2.....	3.2726...	..	...	TOC	..
CCB2	3.7838			TOC	

1
2
3
4
5
6
7
8
9
10
11
12
13
14

Method ID	Sample Type	Vial	Timestamp	Message
Boat Sampler	Sample		2025/11/20 10:02	
Boat Sampler	Sample		2025/11/20 10:04	
Boat Sampler	Sample		2025/11/20 10:06	
Boat Sampler	...Sample	..	..2025/11/20 10:08	..
Boat Sampler	Sample		2025/11/20 10:16	Low Sample Detected
Boat Sampler	Sample		2025/11/20 10:19	Low Sample Detected
Boat Sampler	...Sample	..	..2025/11/20 10:23	..Low Sample Detected
Boat Sampler	Sample		2025/11/20 10:26	Low Sample Detected
Boat Sampler	Sample		2025/11/20 10:29	Low Sample Detected
Boat Sampler	...Sample	..	..2025/11/20 10:31	..
Boat Sampler	Sample		2025/11/20 10:38	Low Sample Detected
Boat Sampler	Sample		2025/11/20 10:41	Low Sample Detected
Boat Sampler	...Sample	..	..2025/11/20 10:43	..
Boat Sampler	Sample		2025/11/20 10:48	
Boat Sampler	Sample		2025/11/20 10:52	
Boat Sampler	...Sample	..	..2025/11/20 10:54	..
Boat Sampler	Sample		2025/11/20 10:59	
Boat Sampler	Sample		2025/11/20 11:01	
Boat Sampler	...Sample	..	..2025/11/20 11:04	..
Boat Sampler	Sample		2025/11/20 11:09	
Boat Sampler	Sample		2025/11/20 11:16	
Boat Sampler	...Sample	..	..2025/11/20 11:24	..
Boat Sampler	Sample		2025/11/20 11:29	
Boat Sampler	Sample		2025/11/20 11:34	
Boat Sampler	...Sample	..	..2025/11/20 11:59	..
Boat Sampler	Sample		2025/11/20 12:02	
Boat Sampler	Sample		2025/11/20 12:04	
Boat Sampler	...Sample	..	..2025/11/20 12:06	..
Boat Sampler	Sample		2025/11/20 12:10	Low Sample Detected
Boat Sampler	Sample		2025/11/20 12:13	Low Sample Detected
Boat Sampler	...Sample	..	..2025/11/20 12:17	..Low Sample Detected
Boat Sampler	Sample		2025/11/20 12:20	Low Sample Detected

1
2
3
4
5
6
7
8
9
10
11
12
13
14

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

Last Message: Low Sample Detected
=====

Sample ID: CCB1 Mode: TOC
Method: Boat Sampler Filename: 11201020
Cal. Curve: TOC SOIL Timestamp: 2025/11/20 10:23
Operator ID: RM IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	2.0009	0.0800	5649	-1.002	-1.076	120

Last Message: Low Sample Detected
=====

Sample ID: CCB1 Mode: TOC
Method: Boat Sampler Filename: 11201023
Cal. Curve: TOC SOIL Timestamp: 2025/11/20 10:26
Operator ID: RM IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	4.2118	0.1685	11890	-1.103	-1.165	120

Last Message: Low Sample Detected
=====

Sample ID: LB137983BLS Mode: TOC
Method: Boat Sampler Filename: 11201027
Cal. Curve: TOC SOIL Timestamp: 2025/11/20 10:29
Operator ID: RM IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	4.8804	0.1952	13777	-1.168	-1.176	120

Last Message: Low Sample Detected
=====

Sample ID: LB137983BLS Mode: TOC
Method: Boat Sampler Filename: 11201030
Cal. Curve: TOC SOIL Timestamp: 2025/11/20 10:31
Operator ID: RM IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	20.4388	0.8176	57699	-1.100	-0.103	33

Sample ID: LB137983BLS Mode: TOC
Method: Boat Sampler Filename: 11201035
Cal. Curve: TOC SOIL Timestamp: 2025/11/20 10:38
Operator ID: RM IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	3.1016	0.1241	8756	-1.212	-1.212	120

Last Message: Low Sample Detected
=====

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	0.5480	0.0219	1547	-1.141	-1.252	120

Last Message: Low Sample Detected

Sample ID: LB137983BSS
Method: Boat Sampler
Cal. Curve: TOC SOIL
Operator ID: RM IZ

Mode: TOC
Filename: 11201042
Timestamp: 2025/11/20 10:43
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	1007.6947	40.3078	2844723	-1.277	-0.278	64

Sample ID: LB137983BSS
Method: Boat Sampler
Cal. Curve: TOC SOIL
Operator ID: RM IZ

Mode: TOC
Filename: 11201047
Timestamp: 2025/11/20 10:48
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	1017.8107	40.7124	2873280	-0.812	0.183	58

Sample ID: LB137983BSS
Method: Boat Sampler
Cal. Curve: TOC SOIL
Operator ID: RM IZ

Mode: TOC
Filename: 11201050
Timestamp: 2025/11/20 10:52
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	959.2139	38.3686	2707862	-0.102	0.891	53

Sample ID: LB137983BSS
Method: Boat Sampler
Cal. Curve: TOC SOIL
Operator ID: RM IZ

Mode: TOC
Filename: 11201052
Timestamp: 2025/11/20 10:54
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	1015.7061	40.6282	2867339	-0.705	0.289	57

Sample ID: Q3530-03
Method: Boat Sampler
Cal. Curve: TOC SOIL
Operator ID: RM IZ

Mode: TOC
Filename: 11201058
Timestamp: 2025/11/20 10:59
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	41.5433	1.6617	117277	-1.281	-0.281	34

Sample ID: Q3530-03 Mode: TOC
Method: Boat Sampler Filename: 11201100
Cal. Curve: TOC SOIL Timestamp: 2025/11/20 11:01
Operator ID: RM IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	47.8788	1.9152	135162	-1.229	-0.244	34

Sample ID: Q3530-03 Mode: TOC
Method: Boat Sampler Filename: 11201103
Cal. Curve: TOC SOIL Timestamp: 2025/11/20 11:04
Operator ID: RM IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	44.5140	1.7806	125663	-1.355	-0.357	37

Sample ID: Q3530-03 Mode: TOC
Method: Boat Sampler Filename: 11201108
Cal. Curve: TOC SOIL Timestamp: 2025/11/20 11:09
Operator ID: RM IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	46.5903	1.8636	131525	-1.305	-0.319	35

Sample ID: Q3483-07 Mode: TOC
Method: Boat Sampler Filename: 11201113
Cal. Curve: TOC SOIL Timestamp: 2025/11/20 11:16
Operator ID: RM IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	14225.2969	98.1545	6927260	-1.458	-0.461	128

Sample ID: Q3483-07 Mode: TOC
Method: Boat Sampler Filename: 11201122
Cal. Curve: TOC SOIL Timestamp: 2025/11/20 11:24
Operator ID: RM IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	15132.8350	99.8767	7048801	-1.265	-0.266	129

Sample ID: Q3483-07 Mode: TOC
Method: Boat Sampler Filename: 11201126
Cal. Curve: TOC SOIL Timestamp: 2025/11/20 11:29
Operator ID: RM IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	13856.6865	92.8398	6552171	-1.345	-0.346	119

Sample ID: Q3483-07 Mode: TOC

Method: Boat Sampler
Cal. Curve: TOC SOIL
Operator ID: RM IZ

Filename: 11201130
Timestamp: 2025/11/20 11:34
Sample Type: Sample

Reviewed By:Iwona
On:11/25/2025 9:45:42
AM
Inst Id :Appolo-9000
LB :LB137983

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	14178.4189	96.4133	6804367	-1.393	-0.393	152

Sample ID: CCV2
Method: Boat Sampler
Cal. Curve: TOC SOIL
Operator ID: RM IZ

Mode: TOC
Filename: 11201158
Timestamp: 2025/11/20 11:59
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	1016.8253	40.6730	2870499	-1.567	-0.567	72

Sample ID: CCV2
Method: Boat Sampler
Cal. Curve: TOC SOIL
Operator ID: RM IZ

Mode: TOC
Filename: 11201201
Timestamp: 2025/11/20 12:02
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	1016.3446	40.6538	2869142	-0.504	0.477	57

Sample ID: CCV2
Method: Boat Sampler
Cal. Curve: TOC SOIL
Operator ID: RM IZ

Mode: TOC
Filename: 11201203
Timestamp: 2025/11/20 12:04
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	1001.3252	40.0530	2826742	-0.665	0.331	57

Sample ID: CCV2
Method: Boat Sampler
Cal. Curve: TOC SOIL
Operator ID: RM IZ

Mode: TOC
Filename: 11201205
Timestamp: 2025/11/20 12:06
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	1025.5752	41.0230	2895200	-1.131	-0.132	59

Sample ID: CCB2
Method: Boat Sampler
Cal. Curve: TOC SOIL
Operator ID: RM IZ

Mode: TOC
Filename: 11201207
Timestamp: 2025/11/20 12:10
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	0.8672	0.0347	2448	-1.393	-1.589	120

Last Message: Low Sample Detected

Sample ID: CCB2

Mode: TOC

Method: Boat Sampler
Cal. Curve: TOC SOIL
Operator ID: RM IZ

Filename: 11201211
Timestamp: 2025/11/20 12:13
Sample Type: Sample

Reviewed By:Iwona
On:11/25/2025 9:45:42
AM
Inst Id :Appolo-9000
LB :LB137983

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	3.8983	0.1559	11005	-1.578	-1.634	120

Last Message: Low Sample Detected

Sample ID: CCB2
Method: Boat Sampler
Cal. Curve: TOC SOIL
Operator ID: RM IZ

Mode: TOC
Filename: 11201214
Timestamp: 2025/11/20 12:17
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	3.2726	0.1309	9238	-1.555	-1.657	120

Last Message: Low Sample Detected

Sample ID: CCB2
Method: Boat Sampler
Cal. Curve: TOC SOIL
Operator ID: RM IZ

Mode: TOC
Filename: 11201217
Timestamp: 2025/11/20 12:20
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	3.7838	0.1514	10682	-1.635	-1.664	120

Last Message: Low Sample Detected

Sample ID	Result	Std. Dev.	RSD	Mode	ALT
BLANK	31950	15426	48.28	TOC	
250mg/l	849893	50108	5.90	TOC	
500mg/l	1675519	64965	3.88	TOC	
1000mg/l.....	3173298...	28597..	0.90...	TOC	..
2000mg/l	5705574	120319	2.11	TOC	
ICV	1077.7419			TOC	
ICV.....	1072.2174...	..	...	TOC	..
ICV	1063.5485			TOC	
ICV	1089.7552			TOC	
ICB.....	10.0600...	..	...	TOC	..
ICB	20.6062			TOC	
ICB	9.7098			TOC	
ICB.....	2.1047...	..	...	TOC	..

1

2

3

4

5

6

7

8

9

10

11

12

13

14

Method ID	Sample Type	Vial Timestamp		Message
Boat Sampler	TOC Standard	2025/10/23	11:57	Low Sample Detected
Boat Sampler	TOC Standard	2025/10/23	12:04	
Boat Sampler	TOC Standard	2025/10/23	12:12	
Boat Sampler	...TOC Standard	..	..2025/10/23 12:21	..
Boat Sampler	TOC Standard	2025/10/23	12:31	
Boat Sampler	Sample	2025/10/23	12:40	
Boat Sampler	...Sample	..	..2025/10/23 12:42	..
Boat Sampler	Sample	2025/10/23	12:44	
Boat Sampler	Sample	2025/10/23	12:50	
Boat Sampler	...Sample	..	..2025/10/23 13:14	..Low Sample Detected
Boat Sampler	Sample	2025/10/23	13:16	
Boat Sampler	Sample	2025/10/23	13:19	Low Sample Detected
Boat Sampler	...Sample	..	..2025/10/23 13:23	..Low Sample Detected

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

Sample ID: 2000mg/l Mode: TOC
Method: Boat Sampler Filename: 10231222
Cal. Curve: TOC SOIL Timestamp: 2025/10/23 12:31
Operator ID: RM IZ Sample Type: TOC Standard

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1			5778175	-1.297	-0.299	104
2			5745182	-0.987	0.012	98
3			5772543	-0.841	0.156	100
4			5526394	0.644	1.642	65

<<<Statistics>>> Mean: 5705574 Std Dev: 120319 RSD: 2.11

Sample ID: ICV Mode: TOC
Method: Boat Sampler Filename: 10231238
Cal. Curve: TOC SOIL Timestamp: 2025/10/23 12:40
Operator ID: RM IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	1077.7419	43.1097	3042467	-1.351	-0.355	73

Sample ID: ICV Mode: TOC
Method: Boat Sampler Filename: 10231240
Cal. Curve: TOC SOIL Timestamp: 2025/10/23 12:42
Operator ID: RM IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	1072.2174	42.8887	3026871	-1.173	-0.180	74

Sample ID: ICV Mode: TOC
Method: Boat Sampler Filename: 10231243
Cal. Curve: TOC SOIL Timestamp: 2025/10/23 12:44
Operator ID: RM IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	1063.5485	42.5419	3002399	-1.194	-0.194	74

Sample ID: ICV Mode: TOC
Method: Boat Sampler Filename: 10231248
Cal. Curve: TOC SOIL Timestamp: 2025/10/23 12:50
Operator ID: RM IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	1089.7552	43.5902	3076380	-1.493	-0.494	78

Sample ID: ICB Mode: TOC
Method: Boat Sampler Filename: 10231312
Cal. Curve: TOC SOIL Timestamp: 2025/10/23 13:14
Operator ID: RM IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	10.0600	0.4024	28399	-1.411	-1.411	120

Last Message: Low Sample Detected
=====

Sample ID: ICB Mode: TOC
Method: Boat Sampler Filename: 10231315
Cal. Curve: TOC SOIL Timestamp: 2025/10/23 13:16
Operator ID: RM IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	20.6062	0.8242	58171	-1.444	-0.455	39

=====

Sample ID: ICB Mode: TOC
Method: Boat Sampler Filename: 10231317
Cal. Curve: TOC SOIL Timestamp: 2025/10/23 13:19
Operator ID: RM IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	9.7098	0.3884	27411	-1.415	-1.414	120

Last Message: Low Sample Detected
=====

Sample ID: ICB Mode: TOC
Method: Boat Sampler Filename: 10231320
Cal. Curve: TOC SOIL Timestamp: 2025/10/23 13:23
Operator ID: RM IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	2.1047	0.0842	5942	-1.330	-1.443	120

Last Message: Low Sample Detected
=====

Calibration Report Print Date/Time: 2025/10/23 12:32:45

Cal. Curve ID: TOC SOIL
Created: 2025/10/23 12:32
Calibration Factor (m): 7.058e+04
Y Intercept (b): 169996
r-squared: 0.99634

Standard ID	Y Raw Data	X Expected ug C	Measured ug C	Message	Date & Time
BLANK	31950	0.000	-1.956	—	2025/10/23 11:57
250mg/l	849893	10.000	9.634	-3.7	2025/10/23 12:04
500mg/l	1675519	20.000	21.332	6.7	2025/10/23 12:12
1000mg/l	3173298	40.000	42.555	6.4	2025/10/23 12:21
2000mg/l	5705574	80.000	78.435	-2.0	2025/10/23 12:31

12
10/23/25

WORKLIST(Hardcopy Internal Chain)

LB137983
LB137984

WorkList Name : TOC-112025

WorkList ID : 193248

Department : Wet-Chemistry

Date : 11-20-2025 09:31:56

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q3483-07	HW1025-PT-NUT-SOIL	Solid	TOC	Cool 4 deg C	ALLI03	QA Of	10/27/2025	9060A
Q3483-08	HW1025-PT-NUT-SOIL	Solid	TOC	Cool 4 deg C	ALLI03	QA Of	10/27/2025	Lloyd Kahn
Q3530-03	MDL-SOIL-03-QT4-2025	Solid	TOC	Cool 4 deg C	ALLI03	QA Of	11/03/2025	9060A
Q3530-06	MDL-SOIL-06-QT4-2025	Solid	TOC	Cool 4 deg C	ALLI03	QA Of	11/03/2025	Lloyd Kahn

Date/Time 11/20/25 09:35
Raw Sample Received by: 12 (JC)
Raw Sample Relinquished by: SJ (QAO)

Date/Time NA
Raw Sample Received by: 1
Raw Sample Relinquished by: 1

Sample ID	Result	Std. Dev.	RSD	Mode	ALT
CCV1	981.0674			TOC	
CCV1	956.8637			TOC	
CCV1	993.9658			TOC	
CCV1.....	997.5524...	..	...	TOC	..
CCB1	4.5956			TOC	
CCB1	3.0895			TOC	
CCB1.....	2.0009...	..	...	TOC	..
CCB1	4.2118			TOC	
LB137984BLS	4.8804			TOC	
LB137984BLS.....	20.4388...	..	...	TOC	..
LB137984BLS	3.1016			TOC	
LB137984BLS	0.5480			TOC	
LB137984BSS.....	1007.6947...	..	...	TOC	..
LB137984BSS	1017.8107			TOC	
LB137984BSS	959.2139			TOC	
LB137984BSS.....	1015.7061...	..	...	TOC	..
Q3530-06	41.5433			TOC	
Q3530-06	47.8788			TOC	
Q3530-06.....	44.5140...	..	...	TOC	..
Q3530-06	46.5903			TOC	
Q3483-08	14225.2969			TOC	
Q3483-08.....	15132.8350...	..	...	TOC	..
Q3483-08	13856.6865			TOC	
Q3483-08	14178.4189			TOC	
CCV2.....	1016.8253...	..	...	TOC	..
CCV2	1016.3446			TOC	
CCV2	1001.3252			TOC	
CCV2.....	1025.5752...	..	...	TOC	..
CCB2	0.8672			TOC	
CCB2	3.8983			TOC	
CCB2.....	3.2726...	..	...	TOC	..
CCB2	3.7838			TOC	

1
2
3
4
5
6
7
8
9
10
11
12
13
14

Method ID	Sample Type	Vial	Timestamp	Message
Boat Sampler	Sample		2025/11/20 10:02	
Boat Sampler	Sample		2025/11/20 10:04	
Boat Sampler	Sample		2025/11/20 10:06	
Boat Sampler	...Sample	..	..2025/11/20 10:08	..
Boat Sampler	Sample		2025/11/20 10:16	Low Sample Detected
Boat Sampler	Sample		2025/11/20 10:19	Low Sample Detected
Boat Sampler	...Sample	..	..2025/11/20 10:23	..Low Sample Detected
Boat Sampler	Sample		2025/11/20 10:26	Low Sample Detected
Boat Sampler	Sample		2025/11/20 10:29	Low Sample Detected
Boat Sampler	...Sample	..	..2025/11/20 10:31	..
Boat Sampler	Sample		2025/11/20 10:38	Low Sample Detected
Boat Sampler	Sample		2025/11/20 10:41	Low Sample Detected
Boat Sampler	...Sample	..	..2025/11/20 10:43	..
Boat Sampler	Sample		2025/11/20 10:48	
Boat Sampler	Sample		2025/11/20 10:52	
Boat Sampler	...Sample	..	..2025/11/20 10:54	..
Boat Sampler	Sample		2025/11/20 10:59	
Boat Sampler	Sample		2025/11/20 11:01	
Boat Sampler	...Sample	..	..2025/11/20 11:04	..
Boat Sampler	Sample		2025/11/20 11:09	
Boat Sampler	Sample		2025/11/20 11:16	
Boat Sampler	...Sample	..	..2025/11/20 11:24	..
Boat Sampler	Sample		2025/11/20 11:29	
Boat Sampler	Sample		2025/11/20 11:34	
Boat Sampler	...Sample	..	..2025/11/20 11:59	..
Boat Sampler	Sample		2025/11/20 12:02	
Boat Sampler	Sample		2025/11/20 12:04	
Boat Sampler	...Sample	..	..2025/11/20 12:06	..
Boat Sampler	Sample		2025/11/20 12:10	Low Sample Detected
Boat Sampler	Sample		2025/11/20 12:13	Low Sample Detected
Boat Sampler	...Sample	..	..2025/11/20 12:17	..Low Sample Detected
Boat Sampler	Sample		2025/11/20 12:20	Low Sample Detected

1
2
3
4
5
6
7
8
9
10
11
12
13
14

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

Last Message: Low Sample Detected
=====

Sample ID: CCB1 Mode: TOC
Method: Boat Sampler Filename: 11201020
Cal. Curve: TOC SOIL Timestamp: 2025/11/20 10:23
Operator ID: RM IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	2.0009	0.0800	5649	-1.002	-1.076	120

Last Message: Low Sample Detected
=====

Sample ID: CCB1 Mode: TOC
Method: Boat Sampler Filename: 11201023
Cal. Curve: TOC SOIL Timestamp: 2025/11/20 10:26
Operator ID: RM IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	4.2118	0.1685	11890	-1.103	-1.165	120

Last Message: Low Sample Detected
=====

Sample ID: LB137984BLS Mode: TOC
Method: Boat Sampler Filename: 11201027
Cal. Curve: TOC SOIL Timestamp: 2025/11/20 10:29
Operator ID: RM IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	4.8804	0.1952	13777	-1.168	-1.176	120

Last Message: Low Sample Detected
=====

Sample ID: LB137984BLS Mode: TOC
Method: Boat Sampler Filename: 11201030
Cal. Curve: TOC SOIL Timestamp: 2025/11/20 10:31
Operator ID: RM IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	20.4388	0.8176	57699	-1.100	-0.103	33

Sample ID: LB137984BLS Mode: TOC
Method: Boat Sampler Filename: 11201035
Cal. Curve: TOC SOIL Timestamp: 2025/11/20 10:38
Operator ID: RM IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	3.1016	0.1241	8756	-1.212	-1.212	120

Last Message: Low Sample Detected
=====

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	0.5480	0.0219	1547	-1.141	-1.252	120

Last Message: Low Sample Detected

Sample ID: LB137984BSS
Method: Boat Sampler
Cal. Curve: TOC SOIL
Operator ID: RM IZ

Mode: TOC
Filename: 11201042
Timestamp: 2025/11/20 10:43
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	1007.6947	40.3078	2844723	-1.277	-0.278	64

Sample ID: LB137984BSS
Method: Boat Sampler
Cal. Curve: TOC SOIL
Operator ID: RM IZ

Mode: TOC
Filename: 11201047
Timestamp: 2025/11/20 10:48
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	1017.8107	40.7124	2873280	-0.812	0.183	58

Sample ID: LB137984BSS
Method: Boat Sampler
Cal. Curve: TOC SOIL
Operator ID: RM IZ

Mode: TOC
Filename: 11201050
Timestamp: 2025/11/20 10:52
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	959.2139	38.3686	2707862	-0.102	0.891	53

Sample ID: LB137984BSS
Method: Boat Sampler
Cal. Curve: TOC SOIL
Operator ID: RM IZ

Mode: TOC
Filename: 11201052
Timestamp: 2025/11/20 10:54
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	1015.7061	40.6282	2867339	-0.705	0.289	57

Sample ID: Q3530-06
Method: Boat Sampler
Cal. Curve: TOC SOIL
Operator ID: RM IZ

Mode: TOC
Filename: 11201058
Timestamp: 2025/11/20 10:59
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	41.5433	1.6617	117277	-1.281	-0.281	34

Sample ID: Q3530-06 Mode: TOC
Method: Boat Sampler Filename: 11201100
Cal. Curve: TOC SOIL Timestamp: 2025/11/20 11:01
Operator ID: RM IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	47.8788	1.9152	135162	-1.229	-0.244	34

Sample ID: Q3530-06 Mode: TOC
Method: Boat Sampler Filename: 11201103
Cal. Curve: TOC SOIL Timestamp: 2025/11/20 11:04
Operator ID: RM IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	44.5140	1.7806	125663	-1.355	-0.357	37

Sample ID: Q3530-06 Mode: TOC
Method: Boat Sampler Filename: 11201108
Cal. Curve: TOC SOIL Timestamp: 2025/11/20 11:09
Operator ID: RM IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	46.5903	1.8636	131525	-1.305	-0.319	35

Sample ID: Q3483-08 Mode: TOC
Method: Boat Sampler Filename: 11201113
Cal. Curve: TOC SOIL Timestamp: 2025/11/20 11:16
Operator ID: RM IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	14225.2969	98.1545	6927260	-1.458	-0.461	128

Sample ID: Q3483-08 Mode: TOC
Method: Boat Sampler Filename: 11201122
Cal. Curve: TOC SOIL Timestamp: 2025/11/20 11:24
Operator ID: RM IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	15132.8350	99.8767	7048801	-1.265	-0.266	129

Sample ID: Q3483-08 Mode: TOC
Method: Boat Sampler Filename: 11201126
Cal. Curve: TOC SOIL Timestamp: 2025/11/20 11:29
Operator ID: RM IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	13856.6865	92.8398	6552171	-1.345	-0.346	119

Sample ID: Q3483-08 Mode: TOC

Method: Boat Sampler
Cal. Curve: TOC SOIL
Operator ID: RM IZ

Filename: 11201130
Timestamp: 2025/11/20 11:34
Sample Type: Sample

Reviewed By:Iwona
On:11/25/2025 9:46:01
AM
Inst Id :Appolo-9000
LB :LB137984

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	14178.4189	96.4133	6804367	-1.393	-0.393	152

Sample ID: CCV2
Method: Boat Sampler
Cal. Curve: TOC SOIL
Operator ID: RM IZ

Mode: TOC
Filename: 11201158
Timestamp: 2025/11/20 11:59
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	1016.8253	40.6730	2870499	-1.567	-0.567	72

Sample ID: CCV2
Method: Boat Sampler
Cal. Curve: TOC SOIL
Operator ID: RM IZ

Mode: TOC
Filename: 11201201
Timestamp: 2025/11/20 12:02
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	1016.3446	40.6538	2869142	-0.504	0.477	57

Sample ID: CCV2
Method: Boat Sampler
Cal. Curve: TOC SOIL
Operator ID: RM IZ

Mode: TOC
Filename: 11201203
Timestamp: 2025/11/20 12:04
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	1001.3252	40.0530	2826742	-0.665	0.331	57

Sample ID: CCV2
Method: Boat Sampler
Cal. Curve: TOC SOIL
Operator ID: RM IZ

Mode: TOC
Filename: 11201205
Timestamp: 2025/11/20 12:06
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	1025.5752	41.0230	2895200	-1.131	-0.132	59

Sample ID: CCB2
Method: Boat Sampler
Cal. Curve: TOC SOIL
Operator ID: RM IZ

Mode: TOC
Filename: 11201207
Timestamp: 2025/11/20 12:10
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	0.8672	0.0347	2448	-1.393	-1.589	120

Last Message: Low Sample Detected

Sample ID: CCB2

Mode: TOC

Method: Boat Sampler
Cal. Curve: TOC SOIL
Operator ID: RM IZ

Filename: 11201211
Timestamp: 2025/11/20 12:13
Sample Type: Sample

Reviewed By:Iwona
On:11/25/2025 9:46:01
AM
Inst Id :Appolo-9000
LB :LB137984

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	3.8983	0.1559	11005	-1.578	-1.634	120

Last Message: Low Sample Detected

Sample ID: CCB2
Method: Boat Sampler
Cal. Curve: TOC SOIL
Operator ID: RM IZ

Mode: TOC
Filename: 11201214
Timestamp: 2025/11/20 12:17
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	3.2726	0.1309	9238	-1.555	-1.657	120

Last Message: Low Sample Detected

Sample ID: CCB2
Method: Boat Sampler
Cal. Curve: TOC SOIL
Operator ID: RM IZ

Mode: TOC
Filename: 11201217
Timestamp: 2025/11/20 12:20
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	3.7838	0.1514	10682	-1.635	-1.664	120

Last Message: Low Sample Detected

Sample ID	Result	Std. Dev.	RSD	Mode	ALT
BLANK	31950	15426	48.28	TOC	
250mg/l	849893	50108	5.90	TOC	
500mg/l	1675519	64965	3.88	TOC	
1000mg/l.....	3173298...	28597..	0.90...	TOC	..
2000mg/l	5705574	120319	2.11	TOC	
ICV	1077.7419			TOC	
ICV.....	1072.2174...	..	...	TOC	..
ICV	1063.5485			TOC	
ICV	1089.7552			TOC	
ICB.....	10.0600...	..	...	TOC	..
ICB	20.6062			TOC	
ICB	9.7098			TOC	
ICB.....	2.1047...	..	...	TOC	..

1

2

3

4

5

6

7

8

9

10

11

12

13

14

Method ID	Sample Type	Vial Timestamp		Message
Boat Sampler	TOC Standard	2025/10/23	11:57	Low Sample Detected
Boat Sampler	TOC Standard	2025/10/23	12:04	
Boat Sampler	TOC Standard	2025/10/23	12:12	
Boat Sampler	...TOC Standard	..	..2025/10/23 12:21	..
Boat Sampler	TOC Standard	2025/10/23	12:31	
Boat Sampler	Sample	2025/10/23	12:40	
Boat Sampler	...Sample	..	..2025/10/23 12:42	..
Boat Sampler	Sample	2025/10/23	12:44	
Boat Sampler	Sample	2025/10/23	12:50	
Boat Sampler	...Sample	..	..2025/10/23 13:14	..Low Sample Detected
Boat Sampler	Sample	2025/10/23	13:16	
Boat Sampler	Sample	2025/10/23	13:19	Low Sample Detected
Boat Sampler	...Sample	..	..2025/10/23 13:23	..Low Sample Detected

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

Sample ID: 2000mg/l Mode: TOC
Method: Boat Sampler Filename: 10231222
Cal. Curve: TOC SOIL Timestamp: 2025/10/23 12:31
Operator ID: RM IZ Sample Type: TOC Standard

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1			5778175	-1.297	-0.299	104
2			5745182	-0.987	0.012	98
3			5772543	-0.841	0.156	100
4			5526394	0.644	1.642	65

<<<Statistics>>> Mean: 5705574 Std Dev: 120319 RSD: 2.11

Sample ID: ICV Mode: TOC
Method: Boat Sampler Filename: 10231238
Cal. Curve: TOC SOIL Timestamp: 2025/10/23 12:40
Operator ID: RM IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	1077.7419	43.1097	3042467	-1.351	-0.355	73

Sample ID: ICV Mode: TOC
Method: Boat Sampler Filename: 10231240
Cal. Curve: TOC SOIL Timestamp: 2025/10/23 12:42
Operator ID: RM IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	1072.2174	42.8887	3026871	-1.173	-0.180	74

Sample ID: ICV Mode: TOC
Method: Boat Sampler Filename: 10231243
Cal. Curve: TOC SOIL Timestamp: 2025/10/23 12:44
Operator ID: RM IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	1063.5485	42.5419	3002399	-1.194	-0.194	74

Sample ID: ICV Mode: TOC
Method: Boat Sampler Filename: 10231248
Cal. Curve: TOC SOIL Timestamp: 2025/10/23 12:50
Operator ID: RM IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	1089.7552	43.5902	3076380	-1.493	-0.494	78

Sample ID: ICB Mode: TOC
Method: Boat Sampler Filename: 10231312
Cal. Curve: TOC SOIL Timestamp: 2025/10/23 13:14
Operator ID: RM IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	10.0600	0.4024	28399	-1.411	-1.411	120

Last Message: Low Sample Detected
=====

Sample ID: ICB Mode: TOC
Method: Boat Sampler Filename: 10231315
Cal. Curve: TOC SOIL Timestamp: 2025/10/23 13:16
Operator ID: RM IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	20.6062	0.8242	58171	-1.444	-0.455	39

Sample ID: ICB Mode: TOC
Method: Boat Sampler Filename: 10231317
Cal. Curve: TOC SOIL Timestamp: 2025/10/23 13:19
Operator ID: RM IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	9.7098	0.3884	27411	-1.415	-1.414	120

Last Message: Low Sample Detected
=====

Sample ID: ICB Mode: TOC
Method: Boat Sampler Filename: 10231320
Cal. Curve: TOC SOIL Timestamp: 2025/10/23 13:23
Operator ID: RM IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	2.1047	0.0842	5942	-1.330	-1.443	120

Last Message: Low Sample Detected
=====

Calibration Report Print Date/Time: 2025/10/23 12:32:45

Cal. Curve ID: TOC SOIL
Created: 2025/10/23 12:32
Calibration Factor (m): 7.058e+04
Y Intercept (b): 169996
r-squared: 0.99634

Standard ID	Y Raw Data	X Expected ug C	Measured ug C	Message	Date & Time
BLANK	31950	0.000	-1.956	—	2025/10/23 11:57
250mg/l	849893	10.000	9.634	-3.7	2025/10/23 12:04
500mg/l	1675519	20.000	21.332	6.7	2025/10/23 12:12
1000mg/l	3173298	40.000	42.555	6.4	2025/10/23 12:21
2000mg/l	5705574	80.000	78.435	-2.0	2025/10/23 12:31

12
10/23/25

Analysis Method: 365.3
Parameter: Phosphorus, Total
Run Number: LB138015

ANALYST: Iwona
SUPERVISOR REVIEW BY: jignesh
BALANCE ID: WC SC-7

Reagent/Standard	Lot/Log #
calibration std. phosphate 1 ppm	WP115787
calibration std. phosphate 0.5 ppm	WP115786
calibration std. phosphate 0.3 ppm	WP115785
calibration std. phosphate 0.1 ppm	WP115784
calibration std. phosphate 0.05 ppm	WP115783
calibration std. 0 ppm	WP115782
phosphate CCV std.	WP115789
5N sulfuric acid	WP115340
Combined reagent	WP115795
Phenolphthalein indicator	WP113378
Sodium hydroxide, 1N	WP113878
Phosphate ICV-LCS Std	WP115788
Phosphate LOD-MDL Std 0.025ppm	WP115791

Intercept: -0.0019 Slope: 0.6521 Regression: 0.999907

Seq	Lab ID	True Value (mg/L)	DF	Initial Volume (mL)	Final Volume (mL)	Absorbance Reading at 880nm	Result (mg/L)	%D	AnalDate	AnalTime
1	CAL1	0.00	1	50	50	0.000	0.003		11/21/2025	13:20
2	CAL2	0.05	1	50	50	0.032	0.052	4	11/21/2025	13:20
3	CAL3	0.10	1	50	50	0.065	0.103	3	11/21/2025	13:21
4	CAL4	0.30	1	50	50	0.187	0.29	-3.3	11/21/2025	13:21
5	CAL5	0.50	1	50	50	0.324	0.5	0	11/21/2025	13:22
6	CAL6	1.00	1	50	50	0.652	1.003	0.3	11/21/2025	13:22

Analysis Method: 365.3

ANALYST: Iwona

Parameter: Phosphorus, Total

SUPERVISOR REVIEW BY: jignesh

Run Number: LB138015

BALANCE ID: WC SC-7

Seq	Lab ID	True Value (mg/l)	DF	Initial Volume (mL)	Final Volume (mL)	Absorbance Reading at 880nm	Result (mg/L)	AnalDate	AnalTime
1	ICV	0.50	1	50	50	0.320	0.494	11/21/2025	13:23
2	ICB		1	50	50	0.002	0.006	11/21/2025	13:23
3	CCV1	0.50	1	50	50	0.338	0.521	11/21/2025	13:40
4	CCB1		1	50	50	0.003	0.008	11/21/2025	13:40
5	RL Check	0.05	1	50	50	0.024	0.040	11/21/2025	13:41
6	PB170673BL		1	1	50	0.003	0.008	11/21/2025	13:41
7	PB170673BS	0.50	1	1	50	0.311	0.480	11/21/2025	13:42
8	Q3483-07		1	1	50	2.144	3.291	11/21/2025	13:42
9	Q3530-03		1	1	50	0.012	0.021	11/21/2025	13:43
10	Q3483-07		50	1	50	0.195	0.302	11/21/2025	13:43
11	CCV2	0.50	1	50	50	0.329	0.507	11/21/2025	13:44
12	CCB2		1	50	50	0.002	0.006	11/21/2025	13:44

Analytical Summary Report

Analysis Method: 1010B
Parameter: Flash Point
Run Number: LB138042
Thermometer ID: FLASHPOINT

Reviewed By: RUBINA
Supervisor Review By: Iwona
Ambient Barometric Pressure (mmHg): 760.00
Barometric Scale ID: 0511064

Reagent/Standard	Lot/Log #
p-xylene (ICV)	W3242

Seq	LabID	True Value °F	DL	Initial Sample °C	Celsius °C	Result °F	Final Result °F	Anal Date	Anal Time
1	ICV	81	1	8	28.00	82.4	82.4	11/25/2025	11:15
2	Q3483-05		1	8	43.00	109.4	109.4	11/25/2025	11:45
3	Q3708-01		1	12	100.00	>212.0	>212.0	11/25/2025	12:15
4	Q3708-01DUP		1	12	100.00	>212.0	>212.0	11/25/2025	12:45

Result = (Celsius * 1.8) + 32

Final Result = Result + (760 - Ambient Barometric Pressure) * 0.06

WORKLIST(Hardcopy Internal Chain)

26138042

WorkList Name : FP-11-24. WorkList ID : 193329 Department : Wet-Chemistry Date : 11-24-2025 16:38:02

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q3483-05	HW1025-PT-FP-SOIL	Solid	Flash Point	Cool 4 deg C	ALLI03	QA Of	10/27/2025	1010B
Q3708-01	112025	Solid	Flash Point	Cool 4 deg C	PSEG03	D41	11/21/2025	1010B

Date/Time 11/25/2025 11:00
Raw Sample Received by: RM LWC
Raw Sample Relinquished by: JG LWC

Date/Time 11/25/2025 13:25
Raw Sample Received by: JG LWC
Raw Sample Relinquished by: RM LWC

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

Analysis Method: 7196A

ANALYST: rubina

Parameter: ~~Hexavalent Chromium~~

SUPERVISOR REVIEW BY: Iwona

Run Number: LB138048

pH Meter ID: WC pH Meter-1

Reagent/Standard	Lot/Log #
hexavalent chromium color reagent	WP115816
5N sulfuric acid	WP115340
HNO3 Hex-Chrome, 5M	WP115339
Hexchrome Cleaning Solution	WP114310

Intercept: -0.0002

Slope: 0.7629

Regression: 0.999836

Seq	Lab ID	True Value (mg/l)	DF	Initial Vol (ml)	Final Vol (ml)	pH HNO3	pH H2SO4	Absorb.at 540nm		Absorbance Difference	Result (mg/L)	%D	Anal Date	Anal Time
								Backgrnd	Color					
1	CAL1	0	1	100	100	7.21	2.01	0.000	0.000	0.000	0.000		11/26/2025	14:40
2	CAL2	0.01	1	100	100	7.29	2.06	0.000	0.008	0.008	0.010	0	11/26/2025	14:40
3	CAL3	0.025	1	100	100	7.34	1.94	0.000	0.020	0.020	0.026	4	11/26/2025	14:41
4	CAL4	0.05	1	100	100	7.39	1.97	0.000	0.040	0.040	0.052	4	11/26/2025	14:41
5	CAL5	0.1	1	100	100	7.45	2.00	0.000	0.078	0.078	0.102	2	11/26/2025	14:42
6	CAL6	0.5	1	100	100	7.47	2.06	0.000	0.370	0.370	0.485	-3	11/26/2025	14:42
7	CAL7	1	1	100	100	7.52	2.02	0.000	0.768	0.768	1.006	0.6	11/26/2025	14:43

Analytical Summary Report

Analysis Method: 7196A

ANALYST:rubina

Parameter: Hexavalent Chromium

SUPERVISOR REVIEW BY:Iwona

Run Number: LB138048

pH Meter ID:WC pH Meter-1

Seq	Lab ID	True Value	DF	Initial Vol (ml/gm)	Final Vol (ml)	pH HN03	pH H2SO4	Absorb.at540nm		Absorbance Difference	Intermediate Result (mg/L)	Anal Date	Anal Time
								Backgrnd	Color				
1	ICV	0.5	1	100	100	7.45	1.91	0.000	0.368	0.368	0.483	11/26/2025	14:43
2	ICB		1	100	100	7.40	1.94	0.000	0.000	0.000	0.000	11/26/2025	14:44
3	CCV1	0.5	1	100	100	7.53	1.96	0.000	0.367	0.367	0.481	11/26/2025	14:44
4	CCB1		1	100	100	7.36	1.99	0.000	0.000	0.000	0.000	11/26/2025	14:45
5	RL Check	0.01	1	100	100	7.36	2.01	0.000	0.008	0.008	0.011	11/26/2025	14:45
6	PB170734BL		1	2.50	100	7.37	2.07	0.000	0.000	0.000	0.000	11/26/2025	14:46
7	PB170734BS	20	1	2.50	100	7.41	1.92	0.000	0.361	0.361	0.473	11/26/2025	14:46
8	Q3483-06		1	2.50	100	7.43	1.94	0.034	1.851	1.817	2.382	11/26/2025	14:47
9	Q3714-01		1	2.55	100	7.45	2.02	0.000	0.000	0.000	0.000	11/26/2025	14:47
10	Q3714-01DU		1	2.55	100	7.49	2.06	0.000	0.000	0.000	0.000	11/26/2025	14:48
11	Q3714-01MS	40	2	2.57	100	7.44	1.99	0.000	0.337	0.337	0.442	11/26/2025	14:48
12	Q3714-01MS	1284	40	2.56	100	7.52	2.02	0.000	0.606	0.606	0.795	11/26/2025	14:49
13	Q3714-01MS	40	2	2.55	100	7.52	2.10	0.000	0.371	0.371	0.487	11/26/2025	14:49
14	Q3721-01		1	2.58	100	7.54	2.10	0.004	0.004	0.000	0.000	11/26/2025	14:50
15	Q3723-01		1	2.54	100	7.40	2.19	0.006	0.006	0.000	0.000	11/26/2025	14:50
16	Q3483-06		5	2.50	100	7.43	1.94	0.003	0.373	0.370	0.485	11/26/2025	14:51
17	CCV2	0.5	1	100	100	7.47	1.88	0.000	0.364	0.364	0.477	11/26/2025	14:51
18	CCB2		1	100	100	7.40	1.82	0.000	0.001	0.001	0.002	11/26/2025	14:52

SOP ID : M9012B-Total, Amenable and Reactive Cyanide-21

SDG No : N/A

Start Digest Date: 11/04/2025 Time : 08:25 Temp : 124 °C

Matrix : SOIL

End Digest Date: 11/04/2025 Time : 09:55 Temp : 126 °C

Pipette ID : WC

Balance ID : WC SC-7

Hood ID : HOOD#1

Digestion tube ID : M5595

Block Thermometer ID : WC CYANIDE

Block ID : MC-1,MC-2

Filter paper ID : N/A

Prep Technician Signature: 

Weigh By : JP

pH Meter ID : N/A

Supervisor Signature: 

Standardized Name	MLS USED	STD REF. # FROM LOG
LCSS	50.0ML	WP113838
PBS003	50.0ML	W3112
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Chemical Used	ML/SAMPLE USED	Lot Number
0.25N NaOH	50.0ML	WP113836
50% v/v H2SO4	5.0ML	WP115334
51% w/v MgCL2	2.0ML	WP115335
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

LAB SAMPLE ID	CLIENT SAMPLE ID	Wt(g)/Vol(ml)	Comment
S0	S0	N/A	N/A
S5.0	S5.0	N/A	N/A
S10.0	S10.0	N/A	N/A
S100.0	S100.0	N/A	N/A
S250.0	S250.0	N/A	N/A
S500.0	S500.0	N/A	N/A
ICV	ICV	N/A	AS PER PB170389
ICB	ICB	N/A	N/A
CCV	CCV	N/A	N/A
CCB	CCB	N/A	N/A
Midrange	Midrange	N/A	N/A
HIGHSTD	HIGHSTD	N/A	AS PER PB170389
LOWSTD	LOWSTD	N/A	AS PER PB170389

Extraction Conformance/Non-Conformance Comments:

N/A

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
11/04/2025 10:10		
	Preparation Group	Analysis Group

Lab Sample ID	Client Sample ID	Initial Weight (g)	Final Vol (ml)	pH	Sulfide	Oxidizing	Nitrate/ Nitrite	Comment	Prep Pos
PB170388BL	PBS388	1.00	50	N/A	N/A	N/A	N/A	N/A	N/A
PB170388BS	LCS388	1.00	50	N/A	N/A	N/A	N/A	N/A	N/A
Q3483-04	HW1025-PT-CN-SOIL	1.00	50	N/A	N/A	N/A	N/A	N/A	N/A

WORKLIST(Hardcopy Internal Chain)

WorkList Name : cn-9014

WorkList ID : 192882

Department : Distillation

Date : 11-04-2025 07:30:38

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q3483-04	HW1025-PT-CN-SOIL	Solid	Cyanide	Cool 4 deg C	ALLI03	QA Of	10/27/2025	9014

Date/Time 11/04/2025 07:30:38
 Raw Sample Received by: AD (Cool C)
 Raw Sample Relinquished by: 12 (WC)

Date/Time N/A
 Raw Sample Received by: 9
 Raw Sample Relinquished by: 9

SOP ID : M9012B-Total, Amenable and Reactive Cyanide-21

SDG No : N/A

Start Digest Date: 11/04/2025 **Time :** 10:30 **Temp :** 124 °C

Matrix : SOIL

End Digest Date: 11/04/2025 **Time :** 12:00 **Temp :** 127 °C

Pipette ID : WC

Balance ID : WC SC-7

Hood ID : HOOD#1

Digestion tube ID : M5595

Block Thermometer ID : WC CYANIDE

Block ID : MC-1,MC-2

Filter paper ID : N/A

Prep Technician Signature: 
Weigh By : JP

pH Meter ID : N/A

Supervisor Signature: 

Standardized Name	MLS USED	STD REF. # FROM LOG
LCSS	1.0ML	WP113838
PBS003	50.0ML	W3112
LOD	2.0ML	WP115433
LOD	1.25ML	WP115433
LOQ	2.5ML	WP115433

Chemical Used	ML/SAMPLE USED	Lot Number
0.25N NaOH	50.0ML	WP113836
50% v/v H2SO4	5.0ML	WP115334
51% w/v MgCL2	2.0ML	WP115335
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

LAB SAMPLE ID	CLIENT SAMPLE ID	Wt(g)/Vol(ml)	Comment
S0	S0	N/A	N/A
S5.0	S5.0	N/A	N/A
S10.0	S10.0	N/A	N/A
S100.0	S100.0	N/A	N/A
S250.0	S250.0	N/A	N/A
S500.0	S500.0	N/A	N/A
ICV	ICV	0.5ML	W3012
ICB	ICB	N/A	N/A
CCV	CCV	N/A	N/A
CCB	CCB	N/A	N/A
Midrange	Midrange	N/A	N/A
HIGHSTD	HIGHSTD	5.0ML	WP113837
LOWSTD	LOWSTD	0.1ML	WP113837

Extraction Conformance/Non-Conformance Comments:

N/A

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
11/04/2025 12:15	 / CWC	R14 CWC
	Preparation Group	Analysis Group

Lab Sample ID	Client Sample ID	Initial Weight (g)	Final Vol (ml)	pH	Sulfide	Oxidizing	Nitrate/ Nitrite	Comment	Prep Pos
PB170389BL	PBS389	1.00	50	N/A	N/A	N/A	N/A	N/A	N/A
PB170389BS	LCS389	1.00	50	N/A	N/A	N/A	N/A	N/A	N/A
Q3483-03	HW1025-PT-CN-SOIL	1.00	50	N/A	N/A	N/A	N/A	N/A	N/A
Q3530-01	LOD-MDL-SOIL-01-QT4-2025	1.00	50	N/A	N/A	N/A	N/A	N/A	N/A
Q3530-02	LOQ-SOIL-02-QT4-2025	1.00	50	N/A	N/A	N/A	N/A	N/A	N/A

WORKLIST(Hardcopy Internal Chain)

WorkList Name : cn-11-04

WorkList ID : 192874

Department : Distillation

Date : 11-04-2025 07:29:22

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q3483-03	HW1025-PT-CN-SOIL	Solid	Cyanide	Cool 4 deg C	ALLI03	QA Of	10/27/2025	9012B
Q3530-01	LOD-MDL-SOIL-01-QT4-2025	Solid	Cyanide	Cool 4 deg C	ALLI03	QA Of	11/03/2025	9012B
Q3530-02	LOQ-SOIL-02-QT4-2025	Solid	Cyanide	Cool 4 deg C	ALLI03	QA Of	11/03/2025	9012B

Date/Time 11/04/2025 07:40

Raw Sample Received by: JP (W)

Raw Sample Relinquished by: 12 (VC)

Date/Time 11/14

Raw Sample Received by: 11

Raw Sample Relinquished by: 11

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

SDG No : N/A

Start Digest Date: 11/10/2025 Time : 15:00 Temp : 150 °C

Matrix : SOIL

End Digest Date: 11/10/2025 Time : 16:00 Temp : 160 °C

Pipette ID : WC

Balance ID : WC SC-7

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
LCSS	1.0ML	WP115589
PBS003	50.0ML	W3112
RL CHECK	N/A	AS PER PB170466
LOD	0.8ML	WP115590
LOQ	1.0ML	WP115590

Chemical Used	ML/SAMPLE USED	Lot Number
BORATE BUFFER	2.5ML	WP113886
NAOH 6N	0.5-2.0ML	WP113887
H2SO4 0.04N	5.0ML	WP115336
pH strip-Ammonia	N/A	W3133
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

ALL GLASSWEAR ARE STEAMED OUT AND THERE WERE NO TRACE OF AMMONIA USING NESLER REAGENT
WP114104,

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
11/10/2025 16:15	RM CWQ	RM CWQ
	Preparation Group	Analysis Group

Lab Sample ID	Client Sample ID	Initial Weight (g)	Final Vol (ml)	pH	Sulfide	Oxidizing	Nitrate/Nitrite	Comment	Prep Pos
PB170467BL	PBS467	1.00	50	N/A	N/A	N/A	N/A	AFTER ADDING 6N NAOH PH IS 9.5	N/A
PB170467BS	LCS467	1.00	50	N/A	N/A	N/A	N/A	AFTER ADDING 6N NAOH PH IS 9.5	N/A
Q3483-07	HW1025-PT-NUT-SOIL	1.00	50	N/A	N/A	N/A	N/A	AFTER ADDING 6N NAOH PH IS 9.5	N/A
Q3530-01	LOD-MDL-SOIL-01-QT4-2025	1.00	50	N/A	N/A	N/A	N/A	AFTER ADDING 6N NAOH PH IS 9.5	N/A
Q3530-02	LOQ-SOIL-02-QT4-2025	1.00	50	N/A	N/A	N/A	N/A	AFTER ADDING 6N NAOH PH IS 9.5	N/A

WORKLIST(Hardcopy Internal Chain)

WorkList Name : AMMONIA-SOIL-11-10

WorkList ID : 193019

Department : Distillation

Date : 11-10-2025 09:05:20

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q3483-07	HW1025-PT-NUT-SOIL	Solid	Ammonia	Cool 4 deg C	ALLI03	QA Of	10/27/2025	SM4500-NH3
Q3530-01	LOD-MDL-SOIL-01-QT4-2025	Solid	Ammonia	Cool 4 deg C	ALLI03	QA Of	11/03/2025	SM4500-NH3
Q3530-02	LOQ-SOIL-02-QT4-2025	Solid	Ammonia	Cool 4 deg C	ALLI03	QA Of	11/03/2025	SM4500-NH3

Date/Time 11/10/2025 09:08
 Raw Sample Received by: RIL (w)
 Raw Sample Relinquished by: WCC

Date/Time NA
 Raw Sample Received by: 4
 Raw Sample Relinquished by: 4

SOP ID : MSM4500-N Org C-TKN-12

SDG No : N/A

Start Digest Date: 11/11/2025 Time : 08:10 Temp : 380 °C

Matrix : SOIL

End Digest Date: 11/11/2025 Time : 09:40 Temp : 384 °C

Pipette ID : WC

Start Distillation Date: 11/11/2025 Time : 14:40 Temp : 150 °C

Balance ID : WC SC-7

End Distillation Date: 11/11/2025 Time : 15:40 Temp : 160 °C

Hood ID : HOOD#2

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	WP115592
TKN CCV STD	50.0ML	WP115593
TKN ICV STD	50.0ML	WP115594
TKN LCS STD	50.0ML	WP115595
MS/MSD SPIKE SOL.	0.25ML	WP115085

Chemical Used	ML/SAMPLE USED	Lot Number
TKN DIGESTION FLUID	10.0ML	WP113135
TKN DISTILLATION BUFFER	10.0ML	WP114445
H2SO4 0.04N	5.0ML	WP112828
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

RL CHECK AS PER PB170510,ALL GLASSWEAR ARE STEAMED OUT AND THERE WERE NO TRACE OF AMMONIA
USING NESLER REAGENT WP114104,LOD WP115596,LOQ WP115597

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
11/11/2025 15:50	RM (WC)	RM (WC)
	Preparation Group	Analysis Group

Lab Sample ID	Client Sample ID	Initial Weight (g)	Final Vol (ml)	pH	Sulfide	Oxidizing	Nitrate/ Nitrite	Comment	Prep Pos
PB170482BL	PBS482	1.00	50	N/A	N/A	N/A	N/A	N/A	N/A
PB170482BS	LCS482	1.00	50	N/A	N/A	N/A	N/A	N/A	N/A
Q3483-07	HW1025-PT-NUT-SOIL	1.00	50	N/A	N/A	N/A	N/A	N/A	N/A
Q3530-01	LOD-MDL-SOIL-01-QT4-2025	1.00	50	N/A	N/A	N/A	N/A	N/A	N/A
Q3530-02	LOQ-SOIL-02-QT4-2025	1.00	50	N/A	N/A	N/A	N/A	N/A	N/A
Q3586-02	SED-2	1.02	50	N/A	N/A	N/A	N/A	N/A	N/A
Q3586-02DUP	SED-2DUP	1.02	50	N/A	N/A	N/A	N/A	N/A	N/A
Q3586-02MS	SED-2MS	1.01	50	N/A	N/A	N/A	N/A	N/A	N/A
Q3586-02MSD	SED-2MSD	1.02	50	N/A	N/A	N/A	N/A	N/A	N/A

WORKLIST(Hardcopy Internal Chain)

WorkList Name : TKN-SOIL- WorkList ID : 193020 Department : Distillation Date : 11-10-2025 17:12:03

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q3483-07	HW1025-PT-NUT-SOIL	Solid	TKN	Cool 4 deg C	ALLI03	QA Of	10/27/2025	SM4500 N Org
Q3530-01	LOD-MDL-SOIL-01-QT4-2025	Solid	TKN	Cool 4 deg C	ALLI03	QA Of	11/03/2025	SM4500 N Org
Q3530-02	LOQ-SOIL-02-QT4-2025	Solid	TKN	Cool 4 deg C	ALLI03	QA Of	11/03/2025	SM4500 N Org
Q3586-02	SED-2	Solid	TKN	Cool 4 deg C	REMI02	D31	11/06/2025	SM4500 N Org

Date/Time 11/11/2025 07:30
 Raw Sample Received by: RM (wv)
 Raw Sample Relinquished by: RM (wv)

Date/Time 11/11/2025 P.m.
 Raw Sample Received by: JPL (wv)
 Raw Sample Relinquished by: RM (wv)

SOP ID : M365.3 & SM4500-P E-19

SDG No : N/A

Start Digest Date: 11/21/2025 Time : 10:20 Temp : 95 °C

Matrix : SOIL

End Digest Date: 11/21/2025 Time : 11:25 Temp : 96 °C

Pipette ID : WC

Balance ID : WC SC-7

Hood ID : HOOD#3

Digestion tube ID : M5595

Block Thermometer ID : WC-BLOCK#1

Block ID : WC S-1, WC S-2

Filter paper ID : 400213

Prep Technician Signature: 12

Weigh By : IZ

pH Meter ID : N/A

Supervisor Signature: 78

Standard Name	MLS USED	STD REF. # FROM LOG
LCSS	0.5ML	WP115559
MS/MSD SPIKE SOL.	0.5ML	WP115558
PBS003	50.ML	W3112
RL CHECK	50.0ML	WP115796
MDL	50.ML	WP115791

Chemical Used	ML/SAMPLE USED	Lot Number
11N H2SO4	1ML	WP115089
AMMONIUM PERSULFATE	0.4g	W3035
pH Paper 0-14	N/A	W3241
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

LAB SAMPLE ID	CLIENT SAMPLE ID	Wt(g)/Vol(ml)	Comment
CAL1	CAL1	50.0ML	WP115782
CAL2	CAL2	50.0ML	WP115783
CAL3	CAL3	50.0ML	WP115784
CAL4	CAL4	50.0ML	WP115785
CAL5	CAL5	50.0ML	WP115786
CAL6	CAL6	50.0ML	WP115787
ICV	ICV	50.0ML	WP115788
ICB	ICB	50.0ML	W3112
CCV	CCV	50.0ML	WP115789
CCB	CCB	50.0ML	W3112

Extraction Conformance/Non-Conformance Comments:

N/A

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
	Preparation Group	Analysis Group

Lab Sample ID	Client Sample ID	Initial Weight (g)	Final Vol (ml)	pH	Sulfide	Oxidizing	Nitrate/ Nitrite	Comment	Prep Pos
PB170673BL	PBS673	1	50	N/A	N/A	N/A	N/A	N/A	N/A
PB170673BS	LCS673	1	50	N/A	N/A	N/A	N/A	N/A	N/A
Q3483-07	HW1025-PT-NUT-SOIL	1	50	N/A	N/A	N/A	N/A	N/A	N/A
Q3530-03	MDL-SOIL-03-QT4-2025	1	50	N/A	N/A	N/A	N/A	N/A	N/A

WORKLIST(Hardcopy Internal Chain)

WorkList Name : TotalPhos-112125-s

WorkList ID : 193281

Department : Distillation

Date : 11-21-2025 09:33:28

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q3483-07	HW1025-PT-NUT-SOIL	Solid	Phosphorus, Total	Cool 4 deg C	ALLI03	QA Of	10/27/2025	365.3
Q3530-03	MDL-SOIL-03-QT4-2025	Solid	Phosphorus, Total	Cool 4 deg C	ALLI03	QA Of	11/03/2025	365.3

Date/Time 11/21/25 09:40
Raw Sample Received by: 12 (JC)
Raw Sample Relinquished by: 57 (QAO)

Date/Time NA
Raw Sample Received by: 1
Raw Sample Relinquished by: 1

SOP ID : M3060A,7196A-Hex.Chromium-27

SDG No : N/A

Start Digest Date: 11/26/2025 Time : 11:00 Temp : 90 °C

Matrix : SOIL

End Digest Date: 11/26/2025 Time : 12:00 Temp : 95 °C

Pipette ID : WC

11/26/2025 12-25 13-25 90°C RM 95°C

Balance ID : WC SC-7

Hood ID : HOOD#3

Digestion tube ID : M6054

Block Thermometer ID : WC-Block#1

Block ID : WC S-2, WC S-1

Filter paper ID : 400213

Prep Technician Signature: RM

Weigh By : RM

pH Meter ID : WC pH meter-1

Supervisor Signature:

Standardized Name	MLS USED	STD REF. # FROM LOG
PRE-DIGESTION SPIKE	2.0ML	WP113880
INSOLUBLE SPIKE	0.02GM	W2202
POST-DIGESTION SPIKE	2.0ML	WP113880
LCSS	1.0ML	WP113881
PBS003	50.0ML	W3112

Chemical Used	ML/SAMPLE USED	Lot Number
MAGNESIUM CHLORIDE	0.4GM	W3152
PHOSPHATE BUFFER	5.0ML	WP115410
HEX. DIGESTION SOLN.	50.0ML	WP115338
5M HNO3	5-7ML	WP115339
5N H2SO4	1-3ML	WP115340
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

LAB SAMPLE ID	CLIENT SAMPLE ID	Vol(ml)	Comment
CAL1	CAL1	2.5ML	W3112
CAL2	CAL2	0.2ML	WP115831
CAL3	CAL3	0.5ML	WP115831
CAL4	CAL4	1ML	WP115831
CAL5	CAL5	0.2ML	WP113880
CAL6	CAL6	1ML	WP113880
CAL7	CAL7	2.0ML	WP113880
ICV	ICV	1ML	WP113881
ICB	ICB	2.5ML	W3112
CCV	CCV	1ML	WP113880
CCB	CCB	2.5ML	W3112

Extraction Conformance/Non-Conformance Comments:

N/A

11/26/2025 RM

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
	Preparation Group	Analysis Group

Lab Sample ID	Client Sample ID	Initial Weight (g)	Final Vol (ml)	pH	Sulfide	Oxidizing	Nitrate/Nitrite	Comment	Prep Pos
PB170734BL	PBS734	2.50	100	N/A	N/A	N/A	N/A	N/A	N/A
PB170734BS	LCS734	2.50	100	N/A	N/A	N/A	N/A	N/A	N/A
Q3483-06	HW1025-PT-CR6-SOIL	2.50	100	N/A	N/A	N/A	N/A	N/A	N/A
Q3714-01	OR-03-11-24-2025	2.55	100	N/A	N/A	N/A	N/A	N/A	N/A
Q3714-01DUP	OR-03-11-24-2025DUP	2.55	100	N/A	N/A	N/A	N/A	N/A	N/A
Q3714-01MSPre	OR-03-11-24-2025MSPRE	2.57	100	N/A	N/A	N/A	N/A	N/A	N/A
Q3714-01MS2Ins	OR-03-11-24-2025MS2INS	2.56	100	N/A	N/A	N/A	N/A	N/A	N/A
Q3714-01MS3Post	OR-03-11-24-2025MS3POST	2.55	100	N/A	N/A	N/A	N/A	N/A	N/A
Q3721-01	EO-2-112525	2.58	100	N/A	N/A	N/A	N/A	N/A	N/A
Q3723-01	CC-1-112525	2.54	100	N/A	N/A	N/A	N/A	N/A	N/A

WORKLIST(Hardcopy Internal Chain)

WorkList Name : hex-1126 WorkList ID : 193347 Department : Distillation Date : 11-26-2025 08:22:36

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q3483-06	HW1025-PT-CR6-SOIL	Solid	Hexavalent Chromium	Cool 4 deg C	ALLI03	QA Of	10/27/2025	7196A
Q3714-01	OR-03-11-24-2025	Solid	Hexavalent Chromium	Cool 4 deg C	PSEG05	E12	11/24/2025	7196A
Q3721-01	EO-2-112525	Solid	Hexavalent Chromium	Cool 4 deg C	PSEG05		11/26/2025	7196A
Q3723-01	CC-1-112525	Solid	Hexavalent Chromium	Cool 4 deg C	PSEG05	E31	11/25/2025	7196A

Date/Time 11/26/2025 08:35
Raw Sample Received by: R. L. W. 13-00
Raw Sample Relinquished by: R. L. W. 13-00

Instrument ID: WC SC-3

Daily Analysis Runlog For Sequence/QC Batch ID # LB137711

Review By	jignesh	Review On	10/31/2025 10:13:17 AM
Supervise By	Iwona	Supervise On	10/31/2025 11:13:08 AM
SubDirectory	LB137711	Test	TS

STD. NAME	STD REF.#
ICAL Standard	N/A
ICV Standard	N/A
CCV Standard	N/A
ICSA Standard	N/A
CRI Standard	N/A
LCS Standard	N/A
Chk Standard	N/A

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	LB137711BL	LB137711BL	MB	10/30/25 13:00		jignesh	OK
2	Q3483-24	HW1025-PT-SOL-SO	SAM	10/30/25 13:00		jignesh	OK

Instrument ID: WC SC-3

Daily Analysis Runlog For Sequence/QC Batch ID # LB137754

Review By	jignesh	Review On	11/5/2025 10:27:33 AM
Supervise By	Iwona	Supervise On	11/5/2025 10:51:43 AM
SubDirectory	LB137754	Test	Oil and Grease
STD. NAME	STD REF.#		
ICAL Standard	N/A		
ICV Standard	N/A		
CCV Standard	N/A		
ICSA Standard	N/A		
CRI Standard	N/A		
LCS Standard	N/A		
Chk Standard	W3240,NA,EP2655,N/A,N/A,W3186,WP115020,WP115021,N/A		

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	LB137754BL	LB137754BL	MB	11/05/25 11:10		jignesh	OK
2	LB137754BS	LB137754BS	LCS	11/05/25 11:10		jignesh	OK
3	LB137754BSD	LB137754BSD	LCSD	11/05/25 11:10		jignesh	OK
4	Q3483-09	HW1025-PT-OGR-SC	SAM	11/05/25 11:10		jignesh	OK
5	Q3530-01	LOD-MDL-SOIL-01-Q	SAM	11/05/25 11:10	ADD 0.1 ML WP115020	jignesh	OK
6	Q3530-02	LOQ-SOIL-02-QT4-20	SAM	11/05/25 11:10	ADD 0.25 ML WP115021	jignesh	OK

Instrument ID: KONELAB

Daily Analysis Runlog For Sequence/QC Batch ID # LB137764

Review By	rubina	Review On	11/5/2025 10:46:17 AM
Supervise By	Iwona	Supervise On	11/5/2025 10:47:53 AM
SubDirectory	LB137764	Test	Cyanide
STD. NAME	STD REF.#		
ICAL Standard	WP115425,WP115426,WP115427,WP115428,WP115429,WP115430,WP115431		
ICV Standard	W3012		
CCV Standard	WP115426		
ICSA Standard	N/A		
CRI Standard	N/A		
LCS Standard	WP113838		
Chk Standard	WP115157,WP114324,WP115432,WP115433		

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	0.0PPBCN	0.0PPBCN	CAL1	11/04/25 11:23		rubina	OK
2	5.0PPBCN	5.0PPBCN	CAL2	11/04/25 11:23		rubina	OK
3	10PPBCN	10PPBCN	CAL3	11/04/25 11:23		rubina	OK
4	50PPBCN	50PPBCN	CAL4	11/04/25 11:23		rubina	OK
5	100PPBCN	100PPBCN	CAL5	11/04/25 11:23		rubina	OK
6	250PPBCN	250PPBCN	CAL6	11/04/25 11:23		rubina	OK
7	500PPBCN	500PPBCN	CAL7	11/04/25 11:23		rubina	OK
8	ICV1	ICV1	ICV	11/04/25 14:45		rubina	OK
9	ICB1	ICB1	ICB	11/04/25 14:45		rubina	OK
10	CCV1	CCV1	CCV	11/04/25 14:45		rubina	OK
11	CCB1	CCB1	CCB	11/04/25 14:45		rubina	OK
12	PB170389BL	PB170389BL	MB	11/04/25 14:45		rubina	OK
13	PB170389BS	PB170389BS	LCS	11/04/25 14:52		rubina	OK
14	LOWPB170389	LOWPB170389	SAM	11/04/25 14:52		rubina	OK
15	HIGHPB170389	HIGHPB170389	SAM	11/04/25 14:52		rubina	OK
16	Q3530-01	LOD-MDL-SOIL-01-Q	SAM	11/04/25 15:00	% Solid is missing	rubina	OK
17	Q3530-01RE	LOD-MDL-SOIL-01-Q	SAM	11/04/25 15:00	% Solid is missing	rubina	OK
18	Q3530-02	LOQ-SOIL-02-QT4-20	LOQ	11/04/25 15:00	% Solid is missing	rubina	OK

Instrument ID: KONELAB

Daily Analysis Runlog For Sequence/QC Batch ID # LB137764

Review By	rubina	Review On	11/5/2025 10:46:17 AM
Supervise By	Iwona	Supervise On	11/5/2025 10:47:53 AM
SubDirectory	LB137764	Test	Cyanide
STD. NAME	STD REF.#		
ICAL Standard	WP115425,WP115426,WP115427,WP115428,WP115429,WP115430,WP115431		
ICV Standard	W3012		
CCV Standard	WP115426		
ICSA Standard	N/A		
CRI Standard	N/A		
LCS Standard	WP113838		
Chk Standard	WP115157,WP114324,WP115432,WP115433		

19	PB170390BL	PB170390BL	MB	11/04/25 15:00		rubina	OK
20	CCV2	CCV2	CCV	11/04/25 15:00		rubina	OK
21	CCB2	CCB2	CCB	11/04/25 15:07		rubina	OK
22	PB170390BS	PB170390BS	LCS	11/04/25 15:07		rubina	OK
23	Q3530-07	LOD-MDL-WATER-01	SAM	11/04/25 15:07		rubina	OK
24	Q3530-07RE	LOD-MDL-WATER-01	SAM	11/04/25 15:07		rubina	OK
25	Q3530-08	LOQ-WATER-02-QT4	LOQ	11/04/25 15:07		rubina	OK
26	Q3483-03	HW1025-PT-CN-SOIL	SAM	11/04/25 15:30	CN is high, Need dilution	rubina	Dilution
27	Q3483-03DL	HW1025-PT-CN-SOIL	SAM	11/04/25 15:30	10X For CN	rubina	Confirms
28	CCV3	CCV3	CCV	11/04/25 15:30		rubina	OK
29	CCB3	CCB3	CCB	11/04/25 15:30		rubina	OK

Instrument ID: KONELAB

Daily Analysis Runlog For Sequence/QC Batch ID # LB137765

Review By	rubina	Review On	11/5/2025 10:47:32 AM
Supervise By	Iwona	Supervise On	11/5/2025 10:47:47 AM
SubDirectory	LB137765	Test	Cyanide
STD. NAME	STD REF.#		
ICAL Standard	WP115425,WP115426,WP115427,WP115428,WP115429,WP115430,WP115431		
ICV Standard	W3012		
CCV Standard	WP115426		
ICSA Standard	N/A		
CRI Standard	N/A		
LCS Standard	WP113838		
Chk Standard	WP115157,WP114324,WP115432		

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	0.0PPBCN	0.0PPBCN	CAL1	11/04/25 11:23		rubina	OK
2	5.0PPBCN	5.0PPBCN	CAL2	11/04/25 11:23		rubina	OK
3	10PPBCN	10PPBCN	CAL3	11/04/25 11:23		rubina	OK
4	50PPBCN	50PPBCN	CAL4	11/04/25 11:23		rubina	OK
5	100PPBCN	100PPBCN	CAL5	11/04/25 11:23		rubina	OK
6	250PPBCN	250PPBCN	CAL6	11/04/25 11:23		rubina	OK
7	500PPBCN	500PPBCN	CAL7	11/04/25 11:23		rubina	OK
8	ICV1	ICV1	ICV	11/04/25 16:14		rubina	OK
9	ICB1	ICB1	ICB	11/04/25 16:14		rubina	OK
10	CCV1	CCV1	CCV	11/04/25 16:14		rubina	OK
11	CCB1	CCB1	CCB	11/04/25 16:14		rubina	OK
12	PB170388BL	PB170388BL	MB	11/04/25 16:14		rubina	OK
13	PB170388BS	PB170388BS	LCS	11/04/25 16:14		rubina	OK
14	Q3483-04	HW1025-PT-CN-SOIL	SAM	11/04/25 16:21	CN is high need dilution.	rubina	Dilution
15	Q3483-04DL	HW1025-PT-CN-SOIL	SAM	11/04/25 16:21	10X For CN	rubina	Confirms
16	CCV2	CCV2	CCV	11/04/25 16:21		rubina	OK
17	CCB2	CCB2	CCB	11/04/25 16:21		rubina	OK

Instrument ID: WC PH METER-1

Daily Analysis Runlog For Sequence/QC Batch ID # LB137781

Review By	jignesh	Review On	11/5/2025 10:52:26 AM
Supervise By	Iwona	Supervise On	11/5/2025 10:53:15 AM
SubDirectory	LB137781	Test	Corrosivity
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,W3217,W3161,W3200		

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	CAL1	CAL1	CAL	11/05/25 08:45		Jignesh	OK
2	CAL2	CAL2	CAL	11/05/25 08:46		Jignesh	OK
3	CAL3	CAL3	CAL	11/05/25 08:47		Jignesh	OK
4	ICV	ICV	ICV	11/05/25 08:49		Jignesh	OK
5	CCV1	CCV1	CCV	11/05/25 08:50		Jignesh	OK
6	Q3483-02	HW1025-PT-CORR-S	SAM	11/05/25 09:00		Jignesh	OK
7	Q3514-01	OILY-DEBRIS-RAGS	SAM	11/05/25 09:10		Jignesh	OK
8	Q3532-04	TP-1	SAM	11/05/25 09:15		Jignesh	OK
9	Q3532-08	TP-2	SAM	11/05/25 09:25		Jignesh	OK
10	Q3537-02	MW-17-SOIL	SAM	11/05/25 09:30		Jignesh	OK
11	Q3538-01	3899-RICHMOND-ST	SAM	11/05/25 09:40		Jignesh	OK
12	Q3538-02	3899-RICHMOND-ST	SAM	11/05/25 09:42		Jignesh	OK
13	Q3538-02DUP	3899-RICHMOND-ST	DUP	11/05/25 09:44		Jignesh	OK
14	CCV2	CCV2	CCV	11/05/25 09:45		Jignesh	OK

Instrument ID: KONELAB

Daily Analysis Runlog For Sequence/QC Batch ID # LB137852

Review By	rubina	Review On	11/12/2025 1:03:52 PM
Supervise By	Iwona	Supervise On	11/12/2025 1:04:18 PM
SubDirectory	LB137852	Test	Ammonia
STD. NAME	STD REF.#		
ICAL Standard	WP115598		
ICV Standard	WP115600		
CCV Standard	WP115599		
ICSA Standard	N/A		
CRI Standard	N/A		
LCS Standard	WP115589		
Chk Standard	WP115290,WP114133,WP113929,WP114132,WP115590		

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	0.0PPM	0.0PPM	CAL1	11/11/25 10:21		rubina	OK
2	0.1PPM	0.1PPM	CAL2	11/11/25 10:21		rubina	OK
3	0.2PPM	0.2PPM	CAL3	11/11/25 10:21		rubina	OK
4	0.4PPM	0.4PPM	CAL4	11/11/25 10:21		rubina	OK
5	1.0PPM	1.0PPM	CAL5	11/11/25 10:21		rubina	OK
6	1.3PPM	1.3PPM	CAL6	11/11/25 10:21		rubina	OK
7	2.0PPM	2.0PPM	CAL7	11/11/25 10:21		rubina	OK
8	ICV1	ICV1	ICV	11/11/25 11:35		rubina	OK
9	ICB1	ICB1	ICB	11/11/25 11:35		rubina	OK
10	CCV1	CCV1	CCV	11/11/25 11:35		rubina	OK
11	CCB1	CCB1	CCB	11/11/25 11:35		rubina	OK
12	RL	RL	LOQ	11/11/25 11:35		rubina	OK
13	PB170466BL	PB170466BL	MB	11/11/25 11:45		rubina	OK
14	PB170466BS	PB170466BS	LCS	11/11/25 11:46		rubina	OK
15	Q3530-08	LOQ-WATER-02-QT4	LOQ	11/11/25 11:46		rubina	OK
16	Q3554-01	EFFLUENT	SAM	11/11/25 11:46	NH3 is high, need dilution	rubina	Dilution
17	Q3560-01	SY-10D	SAM	11/11/25 11:46	NH3 is high, need dilution	rubina	Dilution
18	Q3560-01DUP	SY-10DDUP	DUP	11/11/25 11:56	NH3 is high, need dilution	rubina	Dilution

Instrument ID: KONELAB

Daily Analysis Runlog For Sequence/QC Batch ID # LB137852

Review By	rubina	Review On	11/12/2025 1:03:52 PM
Supervise By	Iwona	Supervise On	11/12/2025 1:04:18 PM
SubDirectory	LB137852	Test	Ammonia
STD. NAME	STD REF.#		
ICAL Standard	WP115598		
ICV Standard	WP115600		
CCV Standard	WP115599		
ICSA Standard	N/A		
CRI Standard	N/A		
LCS Standard	WP115589		
Chk Standard	WP115290,WP114133,WP113929,WP114132,WP115590		

19	Q3560-01MS	SY-10DMS	MS	11/11/25 11:56		rubina	OK
20	Q3560-01MSD	SY-10DMSD	MSD	11/11/25 11:56		rubina	OK
21	CCV2	CCV2	CCV	11/11/25 11:56		rubina	OK
22	CCB2	CCB2	CCB	11/11/25 11:56		rubina	OK
23	Q3560-03	SY-10S	SAM	11/11/25 11:56		rubina	OK
24	Q3560-05	SY-10I	SAM	11/11/25 11:56		rubina	OK
25	Q3560-07	SY-12I	SAM	11/11/25 12:07	NH3 is high, need dilution	rubina	Dilution
26	Q3560-09	SY-12D	SAM	11/11/25 12:07		rubina	OK
27	Q3566-01	WATER-TREATMENT	SAM	11/11/25 12:07		rubina	OK
28	Q3575-01	001 Willets Pt Blvd (N	SAM	11/11/25 12:07	NH3 is high, need dilution	rubina	Dilution
29	Q3575-02	002 35th Ave (Nov)	SAM	11/11/25 12:07	NH3 is high, need dilution	rubina	Dilution
30	PB170467BL	PB170467BL	MB	11/11/25 12:07		rubina	OK
31	PB170467BS	PB170467BS	LCS	11/11/25 12:07		rubina	OK
32	CCV3	CCV3	CCV	11/11/25 12:18		rubina	OK
33	CCB3	CCB3	CCB	11/11/25 12:18		rubina	OK
34	Q3530-02	LOQ-SOIL-02-QT4-20	LOQ	11/11/25 12:18		rubina	OK
35	Q3483-07	HW1025-PT-NUT-SO	SAM	11/11/25 12:18	NH3 is high, need dilution	rubina	Dilution
36	CCV4	CCV4	CCV	11/11/25 12:28		rubina	OK
37	CCB4	CCB4	CCB	11/11/25 12:28		rubina	OK
38	Q3554-01DL	EFFLUENTDL	SAM	11/11/25 13:06	10X For NH3	rubina	Confirms

Instrument ID: KONELAB

Daily Analysis Runlog For Sequence/QC Batch ID # LB137852

Review By	rubina	Review On	11/12/2025 1:03:52 PM
Supervise By	Iwona	Supervise On	11/12/2025 1:04:18 PM
SubDirectory	LB137852	Test	Ammonia
STD. NAME	STD REF.#		
ICAL Standard	WP115598		
ICV Standard	WP115600		
CCV Standard	WP115599		
ICSA Standard	N/A		
CRI Standard	N/A		
LCS Standard	WP115589		
Chk Standard	WP115290,WP114133,WP113929,WP114132,WP115590		

39	Q3560-01DL	SY-10DDL	SAM	11/11/25 13:06	10X For NH3	rubina	Confirms
40	Q3560-01DUPDL	SY-10DDUPDL	DUP	11/11/25 13:06	10X For NH3	rubina	Confirms
41	Q3560-07DL	SY-12IDL	SAM	11/11/25 13:06	20x For NH3 Still high	rubina	Dilution
42	Q3575-01DL	001 Willets Pt Blvd (N	SAM	11/11/25 13:16	5X For NH3	rubina	Confirms
43	Q3575-02DL	002 35th Ave (Nov)DL	SAM	11/11/25 13:16	5X For NH3	rubina	Confirms
44	Q3483-07DL	HW1025-PT-NUT-SO	SAM	11/11/25 13:16	20x For NH3	rubina	Confirms
45	CCV5	CCV5	CCV	11/11/25 13:22		rubina	OK
46	CCB5	CCB5	CCB	11/11/25 13:22		rubina	OK
47	Q3530-07	LOD-MDL-WATER-01	SAM	11/11/25 13:46		rubina	OK
48	Q3530-01	LOD-MDL-SOIL-01-Q	SAM	11/11/25 13:46		rubina	OK
49	Q3560-07DL2	SY-12IDL2	SAM	11/11/25 13:46	40X For NH3	rubina	Confirms
50	CCV6	CCV6	CCV	11/11/25 13:46		rubina	OK
51	CCB6	CCB6	CCB	11/11/25 13:46		rubina	OK

Instrument ID: KONELAB

Daily Analysis Runlog For Sequence/QC Batch ID # LB137870

Review By	rubina	Review On	11/12/2025 5:30:38 PM
Supervise By	Iwona	Supervise On	11/13/2025 1:15:12 PM
SubDirectory	LB137870	Test	TKN
STD. NAME	STD REF.#		
ICAL Standard	WP115592		
ICV Standard	WP115594		
CCV Standard	WP115593		
ICSA Standard	N/A		
CRI Standard	N/A		
LCS Standard	WP115595		
Chk Standard	WP115290,WP114133,WP113929,WP114132,WP115596,WP115597		

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	0.0PPM	0.0PPM	CAL1	11/12/25 10:23		rubina	OK
2	0.5PPM	0.5PPM	CAL2	11/12/25 10:23		rubina	OK
3	1.0PPM	1.0PPM	CAL3	11/12/25 10:23		rubina	OK
4	2.5PPM	2.5PPM	CAL4	11/12/25 10:23		rubina	OK
5	5.0PPM	5.0PPM	CAL5	11/12/25 10:23		rubina	OK
6	6.7PPM	6.7PPM	CAL6	11/12/25 10:23		rubina	OK
7	10.0PPM	10.0PPM	CAL7	11/12/25 10:23		rubina	OK
8	ICV1	ICV1	ICV	11/12/25 11:32		rubina	OK
9	ICB1	ICB1	ICB	11/12/25 11:32		rubina	OK
10	CCV1	CCV1	CCV	11/12/25 11:32		rubina	OK
11	CCB1	CCB1	CCB	11/12/25 11:32		rubina	OK
12	RL	RL	LOQ	11/12/25 11:32		rubina	OK
13	PB170510BL	PB170510BL	MB	11/12/25 11:32		rubina	OK
14	PB170510BS	PB170510BS	LCS	11/12/25 11:43		rubina	OK
15	Q3530-07	LOD-MDL-WATER-01	SAM	11/12/25 11:43		rubina	OK
16	Q3530-08	LOQ-WATER-02-QT4	LOQ	11/12/25 11:43		rubina	OK
17	Q3552-01	MW-4	SAM	11/12/25 11:43	TKN high, need dilution	rubina	Dilution
18	Q3552-02	MW-8	SAM	11/12/25 11:43	TKN high, need dilution	rubina	Dilution

Instrument ID: KONELAB

Daily Analysis Runlog For Sequence/QC Batch ID # LB137870

Review By	rubina	Review On	11/12/2025 5:30:38 PM
Supervise By	Iwona	Supervise On	11/13/2025 1:15:12 PM
SubDirectory	LB137870	Test	TKN
STD. NAME	STD REF.#		
ICAL Standard	WP115592		
ICV Standard	WP115594		
CCV Standard	WP115593		
ICSA Standard	N/A		
CRI Standard	N/A		
LCS Standard	WP115595		
Chk Standard	WP115290,WP114133,WP113929,WP114132,WP115596,WP115597		

19	Q3552-03	MW-9	SAM	11/12/25 11:43	TKN high, need dilution	rubina	Dilution
20	Q3552-04	MW-10	SAM	11/12/25 11:43		rubina	OK
21	Q3552-04DUP	MW-10DUP	DUP	11/12/25 11:43		rubina	OK
22	CCV2	CCV2	CCV	11/12/25 11:54		rubina	OK
23	CCB2	CCB2	CCB	11/12/25 11:54		rubina	OK
24	Q3552-04MS	MW-10MS	MS	11/12/25 11:54		rubina	OK
25	Q3552-04MSD	MW-10MSD	MSD	11/12/25 11:54		rubina	OK
26	Q3552-05	MW-3	SAM	11/12/25 11:54	TKN high, need dilution	rubina	Dilution
27	Q3560-01	SY-10D	SAM	11/12/25 11:54		rubina	OK
28	Q3560-03	SY-10S	SAM	11/12/25 11:54		rubina	OK
29	Q3560-05	SY-10I	SAM	11/12/25 11:54		rubina	OK
30	Q3560-07	SY-12I	SAM	11/12/25 11:54	TKN high, need dilution	rubina	Dilution
31	Q3560-09	SY-12D	SAM	11/12/25 12:04		rubina	OK
32	Q3569-01	MW-2	SAM	11/12/25 12:04	TKN high, need dilution	rubina	Dilution
33	Q3569-02	MW-12	SAM	11/12/25 12:04	TKN high, need dilution	rubina	Dilution
34	CCV3	CCV3	CCV	11/12/25 12:04		rubina	OK
35	CCB3	CCB3	CCB	11/12/25 12:04		rubina	OK
36	Q3584-01	SW-1	SAM	11/12/25 12:04		rubina	OK
37	Q3584-02	SW-2	SAM	11/12/25 12:04		rubina	OK
38	Q3584-03	SW-3	SAM	11/12/25 12:04		rubina	OK

Instrument ID: KONELAB

Daily Analysis Runlog For Sequence/QC Batch ID # LB137870

Review By	rubina	Review On	11/12/2025 5:30:38 PM
Supervise By	Iwona	Supervise On	11/13/2025 1:15:12 PM
SubDirectory	LB137870	Test	TKN
STD. NAME	STD REF.#		
ICAL Standard	WP115592		
ICV Standard	WP115594		
CCV Standard	WP115593		
ICSA Standard	N/A		
CRI Standard	N/A		
LCS Standard	WP115595		
Chk Standard	WP115290,WP114133,WP113929,WP114132,WP115596,WP115597		

39	Q3584-07	SEEP-1	SAM	11/12/25 12:04	TKN high, need dilution	rubina	Dilution
40	PB170482BL	PB170482BL	MB	11/12/25 12:05		rubina	OK
41	PB170482BS	PB170482BS	LCS	11/12/25 12:05		rubina	OK
42	Q3483-07	HW1025-PT-NUT-SO	SAM	11/12/25 12:05	TKN high, need dilution	rubina	Dilution
43	Q3530-01	LOD-MDL-SOIL-01-Q	SAM	11/12/25 12:15		rubina	OK
44	Q3530-02	LOQ-SOIL-02-QT4-20	LOQ	11/12/25 12:15		rubina	OK
45	Q3586-02	SED-2	SAM	11/12/25 12:15	TKN high, need dilution	rubina	Dilution
46	CCV4	CCV4	CCV	11/12/25 12:15		rubina	OK
47	CCB4	CCB4	CCB	11/12/25 12:15		rubina	OK
48	Q3586-02DUP	SED-2DUP	DUP	11/12/25 12:15	TKN high, need dilution	rubina	Dilution
49	Q3586-02MS	SED-2MS	MS	11/12/25 12:15		rubina	OK
50	Q3586-02MSD	SED-2MSD	MSD	11/12/25 12:15		rubina	OK
51	Q3552-01DL	MW-4DL	SAM	11/12/25 12:15	20X For TKN	rubina	Confirms
52	Q3552-02DL	MW-8DL	SAM	11/12/25 12:15	2X For TKN	rubina	Confirms
53	Q3552-03DL	MW-9DL	SAM	11/12/25 12:15	10X For TKN	rubina	Confirms
54	Q3552-05DL	MW-3DL	SAM	11/12/25 12:26	10X For TKN	rubina	Confirms
55	Q3560-07DL	SY-12IDL	SAM	11/12/25 12:26	10X For TKN	rubina	Confirms
56	Q3569-01DL	MW-2DL	SAM	11/12/25 12:26	10X For TKN	rubina	Confirms
57	CCV5	CCV5	CCV	11/12/25 13:42		rubina	OK
58	CCB5	CCB5	CCB	11/12/25 13:42		rubina	OK

Instrument ID: KONELAB

Daily Analysis Runlog For Sequence/QC Batch ID # LB137870

Review By	rubina	Review On	11/12/2025 5:30:38 PM
Supervise By	Iwona	Supervise On	11/13/2025 1:15:12 PM
SubDirectory	LB137870	Test	TKN
STD. NAME	STD REF.#		
ICAL Standard	WP115592		
ICV Standard	WP115594		
CCV Standard	WP115593		
ICSA Standard	N/A		
CRI Standard	N/A		
LCS Standard	WP115595		
Chk Standard	WP115290,WP114133,WP113929,WP114132,WP115596,WP115597		

59	Q3569-02DL	MW-12DL	SAM	11/12/25 13:42	10X For TKN	rubina	Confirms
60	Q3483-07DL	HW1025-PT-NUT-SO	SAM	11/12/25 13:42	10X For TKN	rubina	Confirms
61	Q3586-02DL	SED-2DL	SAM	11/12/25 13:42	5X For TKN	rubina	Confirms
62	Q3586-02DUPDL	SED-2DUPDL	DUP	11/12/25 13:42	5X For TKN	rubina	Confirms
63	Q3584-07DL	SEEP-1DL	SAM	11/12/25 13:42	20X For TKN	rubina	Confirms
64	CCV6	CCV6	CCV	11/12/25 13:42		rubina	OK
65	CCB6	CCB6	CCB	11/12/25 13:45		rubina	OK

Instrument ID: IC-1

Daily Analysis Runlog For Sequence/QC Batch ID # LB137971

Review By	rubina	Review On	11/20/2025 2:12:51 PM
Supervise By	Iwona	Supervise On	11/20/2025 2:13:09 PM
SubDirectory	LB137971	Test	Anions
STD. NAME	STD REF.#		
ICAL Standard	WP115441,WP115442,WP115443,WP115444,WP115445,WP115446,WP115447		
ICV Standard	WP115448		
CCV Standard	WP115747		
ICSA Standard	N/A		
CRI Standard	N/A		
LCS Standard	WP115748		
Chk Standard	WP115449,WP115450		

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	STD1	STD1	CAL1	11/03/25 15:58	All standards, samples, and	RM/IZ	OK
2	STD2	STD2	CAL2	11/03/25 16:22	QC are filtered through	RM/IZ	OK
3	STD3	STD3	CAL3	11/03/25 17:04	0.45um, filter lot W3160	RM/IZ	OK
4	STD4	STD4	CAL4	11/03/25 17:47		RM/IZ	OK
5	STD5	STD5	CAL5	11/03/25 18:08		RM/IZ	OK
6	STD6	STD6	CAL6	11/03/25 18:30		RM/IZ	OK
7	STD7	STD7	CAL7	11/03/25 18:51		RM/IZ	OK
8	ICV1	ICV1	ICV	11/03/25 19:13		RM/IZ	OK
9	ICB1	ICB1	ICB	11/03/25 19:34		RM/IZ	OK
10	CCV1	CCV1	CCV	11/19/25 09:10		RM/IZ	OK
11	CCB1	CCB1	CCB	11/19/25 10:15		RM/IZ	OK
12	LB137971BLS	LB137971BLS	MB	11/19/25 10:36		RM/IZ	OK
13	LB137971BSS	LB137971BSS	LCS	11/19/25 10:58		RM/IZ	OK
14	Q3483-01	HW1025-PT-AN-SOIL	SAM	11/19/25 11:19	Cl,NO3,SO4 High need dilution	RM/IZ	Dilution
15	Q3483-25	HW1025-PT-NO2-SO	SAM	11/19/25 12:02	No2 Is high need dilution	RM/IZ	Dilution
16	Q3483-01DL	HW1025-PT-AN-SOIL	SAM	11/19/25 12:24	10X For Cl,NO3,SO4	RM/IZ	Confirms
17	Q3483-25DL	HW1025-PT-NO2-SO	SAM	11/19/25 13:29	2X For No2	RM/IZ	Confirms
18	CCV2	CCV2	CCV	11/19/25 13:50		RM/IZ	OK

Instrument ID: IC-1

Daily Analysis Runlog For Sequence/QC Batch ID # LB137971

Review By	rubina	Review On	11/20/2025 2:12:51 PM
Supervise By	Iwona	Supervise On	11/20/2025 2:13:09 PM
SubDirectory	LB137971	Test	Anions
STD. NAME	STD REF.#		
ICAL Standard	WP115441,WP115442,WP115443,WP115444,WP115445,WP115446,WP115447		
ICV Standard	WP115448		
CCV Standard	WP115747		
ICSA Standard	N/A		
CRI Standard	N/A		
LCS Standard	WP115748		
Chk Standard	WP115449,WP115450		

19	CCB2	CCB2	CCB	11/19/25 14:12		RM/IZ	OK
----	------	------	-----	----------------	--	-------	----

Instrument ID: TOC

Daily Analysis Runlog For Sequence/QC Batch ID # LB137983

Review By	rubina	Review On	11/24/2025 4:11:53 PM
Supervise By	Iwona	Supervise On	11/25/2025 9:45:42 AM
SubDirectory	LB137983	Test	TOC
STD. NAME	STD REF.#		
ICAL Standard	WP115296,WP115297,WP115298,WP115299,WP115300		
ICV Standard	WP115301		
CCV Standard	WP115727		
ICSA Standard	N/A		
CRI Standard	N/A		
LCS Standard	WP115728		
Chk Standard	WP115035,WP115168,WP115730		

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	BLANK	BLANK	CAL1	10/23/25 11:57		RM IZ	OK
2	250mg/l	250mg/l	CAL2	10/23/25 12:04		RM IZ	OK
3	500mg/l	500mg/l	CAL3	10/23/25 12:12		RM IZ	OK
4	1000mg/l	1000mg/l	CAL4	10/23/25 12:21		RM IZ	OK
5	2000mg/l	2000mg/l	CAL5	10/23/25 12:31		RM IZ	OK
6	ICV1	ICV1	ICV	10/23/25 12:50		RM IZ	OK
7	ICB1	ICB1	ICB	10/23/25 13:23		RM IZ	OK
8	CCV1	CCV1	CCV	11/20/25 10:08		RM IZ	OK
9	CCB1	CCB1	CCB	11/20/25 10:26		RM IZ	OK
10	LB137983BLS	LB137983BLS	MB	11/20/25 10:41		RM IZ	OK
11	LB137983BSS	LB137983BSS	LCS	11/20/25 10:54		RM IZ	OK
12	Q3530-03	MDL-SOIL-03-QT4-20	SAM	11/20/25 11:09		RM IZ	OK
13	Q3483-07	HW1025-PT-NUT-SO	SAM	11/20/25 11:34		RM IZ	OK
14	CCV2	CCV2	CCV	11/20/25 12:06		RM IZ	OK
15	CCB2	CCB2	CCB	11/20/25 12:20		RM IZ	OK

Instrument ID: TOC

Daily Analysis Runlog For Sequence/QC Batch ID # LB137984

Review By	rubina	Review On	11/24/2025 4:48:21 PM
Supervise By	Iwona	Supervise On	11/25/2025 9:46:01 AM
SubDirectory	LB137984	Test	TOC
STD. NAME	STD REF.#		
ICAL Standard	WP115296,WP115297,WP115298,WP115299,WP115300		
ICV Standard	WP115301		
CCV Standard	WP115727		
ICSA Standard	N/A		
CRI Standard	N/A		
LCS Standard	WP115728		
Chk Standard	WP115035,WP115168,WP115730		

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	BLANK	BLANK	CAL1	10/23/25 11:57		RM IZ	OK
2	250mg/l	250mg/l	CAL2	10/23/25 12:04		RM IZ	OK
3	500mg/l	500mg/l	CAL3	10/23/25 12:12		RM IZ	OK
4	1000mg/l	1000mg/l	CAL4	10/23/25 12:21		RM IZ	OK
5	2000mg/l	2000mg/l	CAL5	10/23/25 12:31		RM IZ	OK
6	ICV1	ICV1	ICV	10/23/25 12:50		RM IZ	OK
7	ICB1	ICB1	ICB	10/23/25 13:23		RM IZ	OK
8	CCV1	CCV1	CCV	11/20/25 10:08		RM IZ	OK
9	CCB1	CCB1	CCB	11/20/25 10:26		RM IZ	OK
10	LB137984BLS	LB137984BLS	MB	11/20/25 10:41		RM IZ	OK
11	LB137984BSS	LB137984BSS	LCS	11/20/25 10:54		RM IZ	OK
12	Q3530-06	MDL-SOIL-06-QT4-20	SAM	11/20/25 11:09		RM IZ	OK
13	Q3483-08	HW1025-PT-NUT-SO	SAM	11/20/25 11:34		RM IZ	OK
14	CCV2	CCV2	CCV	11/20/25 12:06		RM IZ	OK
15	CCB2	CCB2	CCB	11/20/25 12:20		RM IZ	OK

Instrument ID: SPECTROPHOTOMETER-1

Daily Analysis Runlog For Sequence/QC Batch ID # LB138015

Review By	Iwona	Review On	11/24/2025 10:09:00 AM
Supervise By	jignesh	Supervise On	11/24/2025 11:03:09 AM
SubDirectory	LB138015	Test	Phosphorus, Total
STD. NAME	STD REF.#		
ICAL Standard	N/A		
ICV Standard	N/A		
CCV Standard	N/A		
ICSA Standard	N/A		
CRI Standard	N/A		
LCS Standard	N/A		
Chk Standard	WP115787,WP115786,WP115785,WP115784,WP115783,WP115782,WP115789,WP115340,WP115795,WP113378,V		

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	CAL1	CAL1	CAL	11/21/25 13:20		Iwona	OK
2	CAL2	CAL2	CAL	11/21/25 13:20		Iwona	OK
3	CAL3	CAL3	CAL	11/21/25 13:21		Iwona	OK
4	CAL4	CAL4	CAL	11/21/25 13:21		Iwona	OK
5	CAL5	CAL5	CAL	11/21/25 13:22		Iwona	OK
6	CAL6	CAL6	CAL	11/21/25 13:22		Iwona	OK
7	ICV	ICV	ICV	11/21/25 13:23		Iwona	OK
8	ICB	ICB	ICB	11/21/25 13:23		Iwona	OK
9	CCV1	CCV1	CCV	11/21/25 13:40		Iwona	OK
10	CCB1	CCB1	CCB	11/21/25 13:40		Iwona	OK
11	RL Check	RL Check	RL	11/21/25 13:41		Iwona	OK
12	PB170673BL	PB170673BL	MB	11/21/25 13:41		Iwona	OK
13	PB170673BS	PB170673BS	LCS	11/21/25 13:42		Iwona	OK
14	Q3483-07	HW1025-PT-NUT-SO	SAM	11/21/25 13:42		Iwona	OK
15	Q3530-03	MDL-SOIL-03-QT4-20	SAM	11/21/25 13:43		Iwona	OK
16	Q3483-07DL	HW1025-PT-NUT-SO	SAM	11/21/25 13:43		Iwona	OK
17	CCV2	CCV2	CCV	11/21/25 13:44		Iwona	OK
18	CCB2	CCB2	CCB	11/21/25 13:44		Iwona	OK

Instrument ID: IGN-1

Daily Analysis Runlog For Sequence/QC Batch ID # LB138042

Review By	RUBINA	Review On	11/25/2025 4:34:39 PM
Supervise By	Iwona	Supervise On	11/25/2025 4:34:57 PM
SubDirectory	LB138042	Test	Flash Point
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	W3242		

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	ICV	ICV	ICV	11/25/25 11:15		Iwona	OK
2	Q3483-05	HW1025-PT-FP-SOIL	SAM	11/25/25 11:45		Iwona	OK
3	Q3708-01	112025	SAM	11/25/25 12:15		Iwona	OK
4	Q3708-01DUP	112025DUP	DUP	11/25/25 12:45		Iwona	OK

Instrument ID: SPECTROPHOTOMETER-1

Daily Analysis Runlog For Sequence/QC Batch ID # LB138048

Review By	rubina	Review On	11/26/2025 3:06:46 PM
Supervise By	Iwona	Supervise On	11/26/2025 3:06:54 PM
SubDirectory	LB138048	Test	Hexavalent Chromium
STD. NAME	STD REF.#		
ICAL Standard	N/A		
ICV Standard	N/A		
CCV Standard	N/A		
ICSA Standard	N/A		
CRI Standard	N/A		
LCS Standard	N/A		
Chk Standard	WP115816,WP115340,WP115339,WP114310		

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	CAL1	CAL1	CAL	11/26/25 14:40		rubina	OK
2	CAL2	CAL2	CAL	11/26/25 14:40		rubina	OK
3	CAL3	CAL3	CAL	11/26/25 14:41		rubina	OK
4	CAL4	CAL4	CAL	11/26/25 14:41		rubina	OK
5	CAL5	CAL5	CAL	11/26/25 14:42		rubina	OK
6	CAL6	CAL6	CAL	11/26/25 14:42		rubina	OK
7	CAL7	CAL7	CAL	11/26/25 14:43		rubina	OK
8	ICV	ICV	ICV	11/26/25 14:43		rubina	OK
9	ICB	ICB	ICB	11/26/25 14:44		rubina	OK
10	CCV1	CCV1	CCV	11/26/25 14:44		rubina	OK
11	CCB1	CCB1	CCB	11/26/25 14:45		rubina	OK
12	RL Check	RL Check	RL	11/26/25 14:45		rubina	OK
13	PB170734BL	PB170734BL	MB	11/26/25 14:46		rubina	OK
14	PB170734BS	PB170734BS	LCS	11/26/25 14:46		rubina	OK
15	Q3483-06	HW1025-PT-CR6-SO	SAM	11/26/25 14:47		rubina	OK
16	Q3714-01	OR-03-11-24-2025	SAM	11/26/25 14:47		rubina	OK
17	Q3714-01DUP	OR-03-11-24-2025DU	DUP	11/26/25 14:48		rubina	OK
18	Q3714-01MSPre	OR-03-11-24-2025MS	MS	11/26/25 14:48		rubina	OK

Instrument ID: SPECTROPHOTOMETER-1

Daily Analysis Runlog For Sequence/QC Batch ID # LB138048

Review By	rubina	Review On	11/26/2025 3:06:46 PM
Supervise By	Iwona	Supervise On	11/26/2025 3:06:54 PM
SubDirectory	LB138048	Test	Hexavalent Chromium
STD. NAME	STD REF.#		
ICAL Standard	N/A		
ICV Standard	N/A		
CCV Standard	N/A		
ICSA Standard	N/A		
CRI Standard	N/A		
LCS Standard	N/A		
Chk Standard	WP115816,WP115340,WP115339,WP114310		

19	Q3714-01MS2Ins	OR-03-11-24-2025MS	MS	11/26/25 14:49		rubina	OK
20	Q3714-01MS3Post	OR-03-11-24-2025MS	MS	11/26/25 14:49		rubina	OK
21	Q3721-01	EO-2-112525	SAM	11/26/25 14:50		rubina	OK
22	Q3723-01	CC-1-112525	SAM	11/26/25 14:50		rubina	OK
23	Q3483-06DL	HW1025-PT-CR6-SO	SAM	11/26/25 14:51		rubina	OK
24	CCV2	CCV2	CCV	11/26/25 14:51		rubina	OK
25	CCB2	CCB2	CCB	11/26/25 14:52		rubina	OK

Extractions 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>
3923	Baked Sodium Sulfate	EP2655	10/24/2025	01/28/2026	RUPESHKUMAR SHAH	Extraction_SCALE_2 (EX-SC-2)	None	Riteshkumar Patel 10/24/2025
FROM 4000.00000gram of E3875 = Final Quantity: 4000.000 gram								

<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
FROM 1.00000ml of M6041 + 999.00000ml 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>
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
FROM 134.00000gram of W2983 + 134.00000ml of M6041 + 7.30000gram of W3199 + 725.00000ml 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>
1213	Phenolphthalein indicator	WP113378	06/04/2025	12/04/2025	Iwona Zarych	WETCHEM_SCALE_5 (WC SC-5)	None	Jignesh Parikh 06/05/2025
FROM 0.10000gram of W2650 + 50.00000ml of W2788 + 50.00000ml 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>
2051	TOC STOCK STD-SS, 4000PPM	WP113780	07/01/2025	01/01/2026	Iwona Zarych	WETCHEM_SCALE_5 (WC SC-5)	WETCHEM_FIPETTE_3 (WC)	Jignesh Parikh 07/02/2025
FROM 2.50000ml of W2860 + 4.25600gram of W3219 + 495.00000ml of W3112 = Final Quantity: 500.000 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>
11	Sodium hydroxide absorbing solution 0.25 N	WP113836	07/08/2025	12/31/2025	Rubina Mughal	WETCHEM_SCALE_8 (WC SC-7)	None	Iwona Zarych 07/08/2025
FROM 21.00000L of W3112 + 210.00000gram of W3113 = Final Quantity: 21.000 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>
3371	Cyanide LCS Spike Solution, 5PPM	WP113838	07/08/2025	12/24/2025	Rubina Mughal	None	WETCHEM_FIPETTE_3 (WC)	Iwona Zarych 07/08/2025
FROM 1.00000ml of W3224 + 199.00000ml of WP113836 = 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>
1571	Sodium hydroxide, 1N	WP113878	07/09/2025	12/31/2025	Iwona Zarych	WETCHEM_SCALE_7 (WC SC-6)	None	Jignesh Parikh 07/09/2025
FROM 4.00000gram of W3113 + 96.00000ml 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>
1993	HEXAVALENTCHROMIUM STOCK STD 1, 50PPM	WP113880	07/10/2025	01/10/2026	Rubina Mughal	WETCHEM_SCALE_5 (WC SC-5)	None	Iwona Zarych 07/10/2025
FROM 0.14140gram of W2651 + 1000.00000ml 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>
1994	HEXAVALENTCHROMIUM STOCK STD 2, 50PPM	WP113881	07/10/2025	01/10/2026	Rubina Mughal	WETCHEM_SCALE_5 (WC SC-5)	None	Iwona Zarych 07/10/2025
FROM 0.14140gram of W2652 + 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>
1796	NaOH, 0.1N	WP113885	07/10/2025	12/31/2025	Rubina Mughal	WETCHEM_SCALE_8 (WC SC-7)	None	Iwona Zarych 07/10/2025
FROM 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>
1494	BORATE BUFFER	WP113886	07/10/2025	12/31/2025	Rubina Mughal	WETCHEM_SCALE_8 (WC SC-7)	None	Iwona Zarych 07/10/2025
FROM 0.90250L of W3112 + 9.50000gram of W3201 + 88.00000ml of WP113885 = Final Quantity: 1.000 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>
1471	NaOH Solution, 6N	WP113887	07/10/2025	12/31/2025	Rubina Mughal	WETCHEM_SCALE_8 (WC SC-7)	None	Iwona Zarych 07/10/2025
FROM 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>
290	Phenol reagent for Ammonia	WP113929	07/14/2025	12/31/2025	Rubina Mughal	WETCHEM_SCALE_8 (WC SC-7)	None	Iwona Zarych 07/15/2025
FROM 3.20000gram of W3113 + 8.30000gram of W2663 + 88.80000ml 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>
2050	TOC STOCK STD, 4000PPM	WP114035	07/22/2025	01/22/2026	Iwona Zarych	WETCHEM_SCALE_5 (WC SC-5)	Glass Pipette-A	Jignesh Parikh 07/22/2025
FROM 5.00000ml of W2860 + 8.51200gram of W3169 + 990.00000ml 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>
635	EDTA BUFFER FOR AMMONIA	WP114132	07/31/2025	12/31/2025	Rubina Mughal	WETCHEM_SCALE_8 (WC SC-7)	None	Iwona Zarych 07/31/2025
FROM 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	WP114133	07/31/2025	12/31/2025	Rubina Mughal	None	None	Iwona Zarych
								08/04/2025

FROM 50.00000ml of W3112 + 50.00000ml of W3222 = 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>
3354	Hexchrome Cleaning Solution	WP114310	08/19/2025	11/27/2025	Rubina Mughal	None	None	Jignesh Parikh
								08/19/2025

FROM 182.00000ml of M6151 + 727.00000ml of W3112 + 91.00000ml of M6162 = 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>
607	PYRIDINE-BARBITURIC ACID	WP114324	08/19/2025	02/17/2026	Rubina Mughal	WETCHEM_SCALE_5 (WC SC-5)	Glass Pipette-A	Jignesh Parikh 08/19/2025
FROM 145.00000ml of W3112 + 15.00000gram of W3203 + 15.00000ml of M6151 + 75.00000ml of W3019 = 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>
1338	TKN DISTILLING BUFFER	WP114445	08/27/2025	12/31/2025	Rubina Mughal	WETCHEM_SCALE_8 (WC SC-7)	None	Iwona Zarych 09/03/2025
FROM 0.47500L of W3112 + 25.00000gram of W3148 + 500.00000gram of W3113 = Final Quantity: 1.000 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>
3931	Spiking std for 9071B	WP115020	10/02/2025	04/02/2026	Jignesh Parikh	WETCHEM_SCALE_7 (WC SC-6)	None	Iwona Zarych 10/02/2025
FROM 1.00000gram of W2817 + 1.00000gram of W2871 + 1.00000ml of E3972 = 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>
3873	Spiking solution for 9071B - SS	WP115021	10/02/2025	04/02/2026	Jignesh Parikh	WETCHEM_SCALE_7 (WC SC-6)	None	Iwona Zarych 10/02/2025
FROM 1.00000gram of W3009 + 1.00000gram of W3082 + 1.00000L of E3972 = 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>
613	Phosphoric acid reagent	WP115035	10/02/2025	01/31/2026	Iwona Zarych	None	None	Jignesh Parikh
								10/03/2025

FROM 150.00000ml of W3112 + 50.00000ml of W2860 = 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>
153	Ammonia Stock Std. (1000 ppm)	WP115085	10/08/2025	04/08/2026	Rubina Mughal	WETCHEM_SCALE_8 (WC SC-7)	None	Iwona Zarych
								10/08/2025

FROM 3.81900gram of W3196 + 996.18100ml 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>
1895	Ammonia Stock Std, 1000PPM-SS	WP115086	10/08/2025	04/08/2026	Rubina Mughal	WETCHEM_SCALE_8 (WC SC-7)	None	Iwona Zarych 10/08/2025
FROM 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>
1211	11 N sulfuric acid	WP115089	10/08/2025	04/08/2026	Rubina Mughal	None	None	Iwona Zarych 10/08/2025
FROM 306.00000ml of M6186 + 694.00000ml 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>
539	CN BUFFER	WP115157	10/10/2025	12/03/2025	Rubina Mughal	WETCHEM_SCALE_8 (WC SC-7)	None	Iwona Zarych 10/14/2025
FROM 138.00000gram of W2668 + 862.00000ml 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>
2435	1:1 PHOSPHORIC ACID FOR TOC SOILS	WP115168	10/10/2025	01/31/2026	Iwona Zarych	None	None	Sarabjit Jaswal 10/25/2025
FROM 50.00000ml of W2860 + 50.00000ml 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>
740	sodium nitroferrocyanide for ammonia	WP115290	10/22/2025	11/22/2025	Rubina Mughal	WETCHEM_SCALE_5 (WC SC-5)	None	Iwona Zarych 10/24/2025
FROM 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>
304	TOC CAL 0.00ppm	WP115296	10/23/2025	10/30/2025	Iwona Zarych	None	None	Jignesh Parikh 10/27/2025
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>
712	TOC SOIL cal 250ppm	WP115297	10/23/2025	10/30/2025	Iwona Zarych	None	Glass Pipette-A	Jignesh Parikh 10/27/2025

FROM 15.00000ml of W3112 + 1.00000ml of WP114035 = Final Quantity: 16.000 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>
710	TOC SOIL cal 500ppm	WP115298	10/23/2025	10/30/2025	Iwona Zarych	None	Glass Pipette-A	Jignesh Parikh 10/27/2025

FROM 14.00000ml of W3112 + 2.00000ml of WP114035 = Final Quantity: 16.000 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>
3544	TOC SOIL Cal- CCV 1000PPM	WP115299	10/23/2025	10/30/2025	Iwona Zarych	None	Glass Pipette-A	Jignesh Parikh 10/27/2025

FROM 15.00000ml of W3112 + 5.00000ml of WP114035 = Final Quantity: 20.000 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>
713	TOC SOIL cal 2000ppm	WP115300	10/23/2025	10/30/2025	Iwona Zarych	None	Glass Pipette-A	Jignesh Parikh 10/27/2025

FROM 5.00000ml of W3112 + 5.00000ml of WP114035 = 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>
2819	TOC ICV-LCSS, 1000PPM	WP115301	10/23/2025	10/30/2025	Iwona Zarych	None	Glass Pipette-A	Jignesh Parikh 10/27/2025

FROM 15.00000ml of W3112 + 5.00000ml of WP113780 = Final Quantity: 20.000 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>
1714	Sulfuric Acid, 50% (v/v)	WP115334	10/27/2025	04/27/2026	Rubina Mughal	None	None	Jignesh Parikh 10/27/2025

FROM 500.00000ml of M6186 + 500.00000ml 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>
3214	Magnesium Chloride For Cyanide 2.5M(51%W/V)	WP115335	10/27/2025	04/27/2026	Rubina Mughal	WETCHEM_S CALE_8 (WC SC-7)	None	Jignesh Parikh 10/27/2025
FROM 500.00000ml of W3112 + 510.00000gram of W3152 = 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	WP115336	10/27/2025	04/27/2026	Rubina Mughal	None	WETCHEM_F IPETTE_3 (WC)	Jignesh Parikh 10/27/2025
FROM 1.00000ml of M6186 + 999.00000ml 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>
148	hexchrome digestion fluid	WP115338	10/27/2025	11/27/2025	Rubina Mughal	WETCHEM_SCALE_8 (WC SC-7)	None	Jignesh Parikh 10/27/2025
FROM 120.00000gram of W3163 + 4.00000L of W3112 + 80.00000gram of W3113 = Final Quantity: 4000.000 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>
1836	HNO3 Hex-Chrome, 5M	WP115339	10/27/2025	01/28/2026	Rubina Mughal	None	None	Jignesh Parikh 10/27/2025
FROM 320.00000ml of M6187 + 680.00000ml 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>
126	5N sulfuric acid	WP115340	10/27/2025	04/27/2026	Rubina Mughal	None	None	Jignesh Parikh 10/27/2025

FROM 140.00000ml of M6186 + 860.00000ml of W3112 = 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>
4035	IC ELUENT CONCENTRATE FOR IC-1	WP115344	10/23/2025	04/23/2026	Iwona Zarych	WETCHEM_SCALE_5 (WC SC-5)	None	Jignesh Parikh 10/28/2025

FROM 2.10000gram of W2647 + 84.75000gram of W3163 + 913.15000ml 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>
190	HEX CHROME PHOSPHATE BUFFER	WP115410	11/03/2025	05/03/2026	Rubina Mughal	WETCHEM_SCALE_8 (WC SC-7)	None	Iwona Zarych
FROM 0.84500L of W3112 + 68.04000gram of W3206 + 87.09000gram of W3168 = 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>
3456	Cyanide Intermediate Working Std, 5PPM	WP115424	11/04/2025	11/05/2025	Rubina Mughal	None	WETCHEM_FIPETTE_3 (WC)	Iwona Zarych
FROM 0.25000ml of W3214 + 49.75000ml of WP113836 = 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>
4	Calibration standard 500 ppb	WP115425	11/04/2025	11/05/2025	Rubina Mughal	None	WETCHEM_FIPETTE_3 (WC)	Iwona Zarych 11/05/2025
FROM 45.00000ml of WP113836 + 5.00000ml of WP115424 = 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>
3761	Calibration-CCV CN Standard 250 ppb	WP115426	11/04/2025	11/05/2025	Rubina Mughal	None	WETCHEM_FIPETTE_3 (WC)	Iwona Zarych 11/05/2025
FROM 2.50000ml of WP115424 + 47.50000ml of WP113836 = 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>
6	Calibration Standard 100 ppb	WP115427	11/04/2025	11/05/2025	Rubina Mughal	None	WETCHEM_FIPETTE_3 (WC)	Iwona Zarych 11/05/2025
FROM 1.00000ml of WP115424 + 49.00000ml of WP113836 = 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>
7	Calibration Standard 50 ppb	WP115428	11/04/2025	11/05/2025	Rubina Mughal	None	WETCHEM_FIPETTE_3 (WC)	Iwona Zarych 11/05/2025
FROM 0.50000ml of WP115424 + 49.50000ml of WP113836 = 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>
8	Calibration Standard 10 ppb	WP115429	11/04/2025	11/05/2025	Rubina Mughal	None	WETCHEM_FIPETTE_3 (WC)	Iwona Zarych 11/05/2025
FROM 1.00000ml of WP115425 + 49.00000ml of WP113836 = 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>
9	Calibration Standard 5 ppb	WP115430	11/04/2025	11/05/2025	Rubina Mughal	None	WETCHEM_FIPETTE_3 (WC)	Iwona Zarych 11/05/2025
FROM 0.50000ml of WP115425 + 49.50000ml of WP113836 = 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>
167	0 ppb CN calibration std	WP115431	11/04/2025	11/05/2025	Rubina Mughal	None	None	Iwona Zarych
11/05/2025								

FROM 50.00000ml of WP113836 = 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>
1582	Chloramine T solution, 0.014M	WP115432	11/04/2025	11/05/2025	Rubina Mughal	WETCHEM_S CALE_5 (WC SC-5)	Glass Pipette-A	Iwona Zarych
11/05/2025								

FROM 0.08000gram of W3139 + 20.00000ml of W3112 = Final Quantity: 20.000 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>
1649	Cyanide LOD LOQ Spike Std, 100ppb	WP115433	11/04/2025	11/05/2025	Rubina Mughal	None	WETCHEM_FIPETTE_3 (WC)	Iwona Zarych 11/05/2025
FROM 1.00000ml of WP113838 + 49.00000ml of WP113836 = 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>
2487	Anions 300/9056 calibration standard 1	WP115441	11/03/2025	11/04/2025	Iwona Zarych	None	WETCHEM_FIPETTE_3 (WC)	Jignesh Parikh 11/07/2025
FROM 10.00000ml 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>
24	Anions 300/9056 calibration standard 2	WP115442	11/03/2025	11/04/2025	Iwona Zarych	None	WETCHEM_FIPETTE_3 (WC)	Jignesh Parikh 11/07/2025
FROM 0.20000ml of W3180 + 9.80000ml 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>
25	Anions 300/9056 calibration standard 3	WP115443	11/03/2025	11/04/2025	Iwona Zarych	None	WETCHEM_FIPETTE_3 (WC)	Jignesh Parikh 11/07/2025
FROM 0.40000ml of W3180 + 9.60000ml 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>
26	Anions 300/9056 calibration standard 4	WP115444	11/03/2025	11/04/2025	Iwona Zarych	None	WETCHEM_FIPETTE_3 (WC)	Jignesh Parikh 11/07/2025
FROM 0.50000ml of W3180 + 9.50000ml 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>
3680	Anions 300/9056 calibration standard 5-CCV	WP115445	11/03/2025	11/04/2025	Iwona Zarych	None	WETCHEM_FIPETTE_3 (WC)	Jignesh Parikh 11/07/2025
FROM 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>
3679	Anions 300/9056 calibration standard 6	WP115446	11/03/2025	11/04/2025	Iwona Zarych	None	WETCHEM_FIPETTE_3 (WC)	Jignesh Parikh 11/07/2025
FROM 2.00000ml of W3180 + 8.00000ml 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>
3681	Anions 300/9056 calibration standard 7	WP115447	11/03/2025	11/04/2025	Iwona Zarych	None	WETCHEM_FIPETTE_3 (WC)	Jignesh Parikh 11/07/2025
FROM 2.50000ml of W3180 + 7.50000ml 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>
3233	Anions 300/9056 ICV-LCS std	WP115448	11/03/2025	11/04/2025	Iwona Zarych	None	WETCHEM_F IPETTE_3 (WC)	Jignesh Parikh 11/07/2025
FROM 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>
4036	IC ELUENT FOR IC-1	WP115449	11/03/2025	12/03/2025	Iwona Zarych	None	Glass Pipette-A	Jignesh Parikh 11/07/2025
FROM 1980.00000ml of W3112 + 20.00000ml of WP115344 = Final Quantity: 2000.000 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>
4037	IC H2SO4 FOR IC-1	WP115450	11/03/2025	12/03/2025	Iwona Zarych	None	Glass Pipette-A	Jignesh Parikh 11/07/2025

FROM 5.60000ml of M6186 + 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>
115	Phosphate Stock Std. (50 ppm)	WP115558	11/07/2025	05/07/2026	Iwona Zarych	WETCHEM_SCALE_5 (WC SC-5)	None	Jignesh Parikh 11/10/2025

FROM 0.11000gram of W3206 + 500.00000ml of W3112 = Final Quantity: 500.000 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>
2790	Phosphate Stock std, 50PPM-SS	WP115559	11/07/2025	05/07/2026	Iwona Zarych	WETCHEM_SCALE_5 (WC SC-5)	None	Jignesh Parikh 11/10/2025
FROM 0.11000gram of W3202 + 500.00000ml of W3112 = Final Quantity: 500.000 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	WP115588	11/10/2025	12/10/2025	Rubina Mughal	None	WETCHEM_FIPETTE_3 (WC)	Jignesh Parikh 11/11/2025
FROM 95.00000ml of W3112 + 5.00000ml of WP115085 = 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>
1639	Ammonia Intermediate Std-Second source, 50PPM	WP115589	11/10/2025	12/10/2025	Rubina Mughal	None	WETCHEM_F IPETTE_3 (WC)	Jignesh Parikh 11/11/2025
FROM 95.00000ml of W3112 + 5.00000ml of WP115086 = 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>
3906	Ammonia MDL-LOD-LOQ spiking solution -5ppm	WP115590	11/10/2025	11/11/2025	Rubina Mughal	None	WETCHEM_F IPETTE_3 (WC)	Jignesh Parikh 11/11/2025
FROM 45.00000ml of W3112 + 5.00000ml of WP115588 = 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>
295	TKN Calibration Std (10 ppm)	WP115592	11/11/2025	11/18/2025	Rubina Mughal	None	WETCHEM_FIPETTE_3 (WC)	Jignesh Parikh 11/11/2025
FROM 49.50000ml of W3112 + 0.50000ml of WP115085 = 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	WP115593	11/11/2025	11/18/2025	Rubina Mughal	None	WETCHEM_FIPETTE_3 (WC)	Jignesh Parikh 11/11/2025
FROM 49.75000ml of W3112 + 0.25000ml of WP115085 = 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	WP115594	11/11/2025	11/18/2025	Rubina Mughal	None	WETCHEM_F IPETTE_3 (WC)	Jignesh Parikh 11/11/2025
FROM 49.75000ml of W3112 + 0.25000ml of WP115086 = 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	WP115595	11/11/2025	11/18/2025	Rubina Mughal	None	WETCHEM_F IPETTE_3 (WC)	Jignesh Parikh 11/11/2025
FROM 49.75000ml of W3112 + 0.25000ml of WP115086 = 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>
3590	TKN LOD-MDL 0.25PPM	WP115596	11/11/2025	11/18/2025	Rubina Mughal	None	WETCHEM_F IPETTE_3 (WC)	Jignesh Parikh 11/11/2025
FROM 99.50000ml of W3112 + 0.50000ml of WP115588 = 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>
3741	TKN LOQ 0.5ppm	WP115597	11/11/2025	11/18/2025	Rubina Mughal	None	WETCHEM_F IPETTE_3 (WC)	Jignesh Parikh 11/11/2025
FROM 99.00000ml of W3112 + 1.00000ml of WP115588 = 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>
275	Ammonia Calibration Std. (2 ppm)	WP115598	11/11/2025	11/12/2025	Rubina Mughal	None	WETCHEM_F IPETTE_3 (WC)	Jignesh Parikh 11/11/2025
FROM 48.00000ml of W3112 + 2.00000ml of WP115588 = 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)	WP115599	11/11/2025	11/12/2025	Rubina Mughal	None	WETCHEM_F IPETTE_3 (WC)	Jignesh Parikh 11/11/2025
FROM 49.00000ml of W3112 + 1.00000ml of WP115588 = 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>
286	Ammonia ICV Std. (1 ppm)	WP115600	11/11/2025	11/12/2025	Rubina Mughal	None	WETCHEM_F IPETTE_3 (WC)	Jignesh Parikh 11/11/2025
FROM 49.00000ml of W3112 + 1.00000ml of WP115589 = 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>
3544	TOC SOIL Cal- CCV 1000PPM	WP115727	11/18/2025	11/25/2025	Iwona Zarych	None	Glass Pipette-A	Jignesh Parikh 11/21/2025
FROM 15.00000ml of W3112 + 5.00000ml of WP114035 = Final Quantity: 20.000 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>
2819	TOC ICV-LCSS, 1000PPM	WP115728	11/18/2025	11/25/2025	Iwona Zarych	None	Glass Pipette-A	Jignesh Parikh 11/21/2025

FROM 15.00000ml of W3112 + 5.00000ml of WP113780 = Final Quantity: 20.000 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>
3545	TOC SOIL MDL-50PPM	WP115730	11/18/2025	11/25/2025	Iwona Zarych	None	WETCHEM_F IPETTE_3 (WC)	Jignesh Parikh 11/21/2025

FROM 39.50000ml of W3112 + 0.50000ml of WP114035 = Final Quantity: 40.000 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	WP115747	11/19/2025	11/20/2025	Iwona Zarych	None	WETCHEM_F IPETTE_3 (WC)	Jignesh Parikh 11/21/2025
FROM 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	WP115748	11/19/2025	11/20/2025	Iwona Zarych	None	WETCHEM_F IPETTE_3 (WC)	Jignesh Parikh 11/21/2025
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>
122	calibration std. 0 ppm	WP115782	11/21/2025	11/28/2025	Iwona Zarych	None	None	Jignesh Parikh 11/21/2025
FROM 100.00000ml 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>
121	calibration std. phosphate 0.05 ppm	WP115783	11/21/2025	11/28/2025	Iwona Zarych	None	WETCHEM_FIPETTE_3 (WC)	Jignesh Parikh 11/21/2025
FROM 99.90000ml of W3112 + 0.10000ml of WP11558 = 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>
120	calibration std. phosphate 0.1 ppm	WP115784	11/21/2025	11/28/2025	Iwona Zarych	None	WETCHEM_FIPETTE_3 (WC)	Jignesh Parikh 11/21/2025
FROM 99.80000ml of W3112 + 0.20000ml of WP115558 = 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>
119	calibration std. phosphate 0.3 ppm	WP115785	11/21/2025	11/28/2025	Iwona Zarych	None	WETCHEM_FIPETTE_3 (WC)	Jignesh Parikh 11/21/2025
FROM 99.40000ml of W3112 + 0.60000ml of WP115558 = 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>
118	calibration std. phosphate 0.5 ppm	WP115786	11/21/2025	11/28/2025	Iwona Zarych	None	WETCHEM_F IPETTE_3 (WC)	Jignesh Parikh 11/21/2025
FROM 99.00000ml of W3112 + 1.00000ml of WP115558 = 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>
117	calibration std. phosphate 1 ppm	WP115787	11/21/2025	11/28/2025	Iwona Zarych	None	WETCHEM_F IPETTE_3 (WC)	Jignesh Parikh 11/21/2025
FROM 98.00000ml of W3112 + 2.00000ml of WP115558 = 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>
3805	Phosphate ICV-LCS Std	WP115788	11/21/2025	11/28/2025	Iwona Zarych	None	WETCHEM_F IPETTE_3 (WC)	Jignesh Parikh 11/21/2025
FROM 99.00000ml of W3112 + 1.00000ml of WP115559 = 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>
124	phosphate CCV std.	WP115789	11/21/2025	11/28/2025	Iwona Zarych	None	WETCHEM_F IPETTE_3 (WC)	Jignesh Parikh 11/21/2025
FROM 99.00000ml of W3112 + 1.00000ml of WP115558 = 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>
3907	Phosphate MDL-LOD-LOQ spike solution, 5ppm	WP115790	11/21/2025	11/28/2025	Iwona Zarych	None	WETCHEM_FIPETTE_3 (WC)	Jignesh Parikh 11/21/2025
FROM 9.00000ml of W3112 + 1.00000ml of WP115558 = 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>
3814	Phosphate LOD-MDL Std 0.025ppm	WP115791	11/21/2025	11/28/2025	Iwona Zarych	None	WETCHEM_FIPETTE_3 (WC)	Jignesh Parikh 11/21/2025
FROM 99.50000ml of W3112 + 0.50000ml of WP115790 = 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>
590	Ascorbic Acid	WP115792	11/21/2025	11/22/2025	Iwona Zarych	WETCHEM_SCALE_5 (WC SC-5)	None	Jignesh Parikh 11/21/2025
FROM 0.52800gram of W3243 + 30.00000ml of W3112 = Final Quantity: 30.000 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>
648	Ammonium molybdate solution	WP115793	11/21/2025	02/11/2026	Iwona Zarych	WETCHEM_SCALE_5 (WC SC-5)	None	Jignesh Parikh 11/21/2025
FROM 20.00000gram of W2664 + 480.00000ml of W3112 = Final Quantity: 500.000 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>
588	Potassium Antimonyl Tartrate	WP115794	11/21/2025	05/21/2026	Iwona Zarych	WETCHEM_SCALE_5 (WC SC-5)	None	Jignesh Parikh 11/21/2025
FROM 1.37150gram of W2306 + 500.00000ml of W3112 = Final Quantity: 500.000 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>
658	Combined reagent	WP115795	11/21/2025	11/22/2025	Iwona Zarych	None	Glass Pipette-A	Jignesh Parikh 11/21/2025
FROM 15.00000ml of WP115793 + 30.00000ml of WP115792 + 5.00000ml of WP115794 + 50.00000ml of WP115340 = 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>
4212	Phosphate RL CHECK	WP115796	11/21/2025	11/28/2025	Iwona Zarych	None	None	Jignesh Parikh
								11/21/2025

FROM 99.80000ml of W3112 + 0.20000ml of WP115558 = 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>
114	hexavalent chromium color reagent	WP115816	11/24/2025	12/01/2025	Rubina Mughal	WETCHEM_SCALE_5 (WC SC-5)	None	Iwona Zarych
								11/24/2025

FROM 0.25000gram of W2979 + 50.00000ml of E3987 = Final Quantity: 50.000 ml

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	PC19631-100 / SODIUM SULFATE, ANHYDROUS, PEST GRADE, 1	417203	07/28/2026	07/28/2025 / RUPESH	01/29/2025 / Rajesh	E3875

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9254-03 / Acetone, Ultra Resi (cs/4x4L)	24H1462005	05/24/2027	09/16/2025 / Evelyn	09/04/2025 / Riteshkumar	E3972

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9254-03 / Acetone, Ultra Resi (cs/4x4L)	24L1062001	10/04/2027	11/17/2025 / RUPESH	11/12/2025 / RUPESH	E3987

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 #
Seidler Chemical	BA-9530-33 / Hydrochloric Acid, Instra-Analyzed (cs/6x2.5L)	22G2862015	02/17/2026	02/18/2025 / Sagar	01/15/2025 / Sagar	M6151

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9598-34 / Nitric Acid, Instra-Analyzed (cs/4x2.5L)	24H0162012	11/27/2025	05/27/2025 / Sagar	04/27/2025 / Sagar	M6162

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9673-33 / Sulfuric Acid, Instra-Analyzed (cs/6c2.5L)	23D2462010	07/12/2026	08/13/2025 / Sagar	08/06/2025 / Sagar	M6186

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9598-34 / Nitric Acid, Instra-Analyzed (cs/4x2.5L)	24H0162012	01/28/2026	08/29/2025 / Sagar	08/08/2025 / Sagar	M6187

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	AA14125-36 / LEAD (II) CHROMATE, ACS, 500G	U19B018	01/23/2027	01/23/2017 / apatel	01/23/2017 / apatel	W2202

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	A1561-500GM / POTASSIUM ANTIMONY TARTRATE TRIHYDRATE, 500G	2GH0057	12/11/2027	12/11/2017 / apatel	12/11/2017 / apatel	W2306

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	J3506-5 / SODIUM BICARBONATE, PWD, ACS, 2.5KG	0000240594	06/03/2026	02/24/2020 / AMANDEEP	01/20/2020 / apatel	W2647

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	J2870-1 / PHENOLPHTHALEIN, INDICATOR F/TITRATION, 500G	0000235350	06/04/2025	01/31/2020 / AMANDEEP	01/20/2020 / apatel	W2650

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	AA13450-36 / Potassium Dichromate, 500g(NEW)	T15F019	01/24/2030	01/24/2020 / apatel	01/24/2020 / apatel	W2651

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	P188-500 / Potassium Dichromate, 500g(new-2nd lot)	194664	01/24/2030	01/24/2020 / apatel	01/24/2020 / apatel	W2652

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	P1060-10 / PHENOL, ACS, 500G	2HD0179	01/27/2030	01/27/2020 / apatel	01/27/2020 / apatel	W2663

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	J07716-1 / Ammonium Molybdate 500G	0000234410	02/11/2026	02/10/2020 / AMANDEEP	01/31/2020 / apatel	W2664

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

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	J3818-5 / SODIUM PHOSPHATE, MONOBAS/HYD, CRYST, ACS, 2.5 KG	0000225799	12/03/2025	04/05/2021 / Alexander	02/10/2020 / apatel	W2668

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	PC16721-3 / Isopropanol, 99%	C20F23007	06/30/2025	12/30/2020 / apatel	12/30/2020 / apatel	W2788

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	A12244 / Stearic acid, 98%, 100 g	U20E006	04/02/2026	04/02/2021 / apatel	04/02/2021 / apatel	W2817

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	J0260-3 / Phosphoric Acid, 2.5 L	0000278313	01/31/2026	07/12/2021 / apatel	07/12/2021 / apatel	W2860

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	H223-57 / Hexadecane, 99.0%	0000266903	05/04/2027	09/07/2021 / apatel	08/26/2021 / apatel	W2871

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	31390 / 1,5-Diphenylcarbazine	MKCR6636	12/09/2027	12/09/2022 / lwona	12/09/2022 / lwona	W2979

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	J3278-5 / Potassium Sulfate, 2.5 Kgs	SLCM9788	11/21/2027	11/21/2022 / lwona	11/21/2022 / lwona	W2983

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	H223-57 / Hexadecane, 99.0%	SHBP8192	02/27/2028	02/27/2023 / lwona	02/27/2023 / lwona	W3009

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
EPA	/ ICV-CN	ICV6-400	12/31/2025	01/08/2025 / lwona	02/20/2020 / lwona	W3012

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
SIGMA ALDRICH	270970-1L / Pyridine 1L	SHBQ2113	04/03/2028	04/03/2023 / lwona	04/03/2023 / lwona	W3019

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	BDH0214-500G / Ammonium Persulfate Crystal, 500g	MKCR9319	06/30/2028	03/05/2024 / lwona	06/06/2023 / lwona	W3035

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	A12244 / Stearic acid, 98%, 100 g	U23E020	02/26/2029	02/26/2024 / lwona	02/26/2024 / lwona	W3082

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

CHEMICAL RECEIPT LOG BOOK

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

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 #
PCI Scientific Supply, Inc.	JTE494-6 / CHLORAMINE-T BAKER 250GM	10239484	09/09/2029	09/09/2024 / lwona	09/09/2024 / lwona	W3139

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

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	01237-10KG / Megnasium Chloride Hexahydrate ACS 10KG	002126-2019-201	11/25/2029	11/25/2024 / lwona	11/25/2024 / lwona	W3152

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.	J3252-1 / POTAS PHOSPHATE, DIBASIC PWD, ACS, 500G	24H0856239	04/19/2028	01/03/2025 / lwona	01/03/2025 / lwona	W3168

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	P243-500 / Potassium Hydrogen Phthalate, 500 gms	24H0956262	04/28/2026	01/03/2025 / lwona	01/03/2025 / lwona	W3169

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 / lwona	01/27/2025 / lwona	W3180

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-3382-05 / Sand, Purified (cs/4x2.5kg)	25A2756718	12/31/2028	03/10/2025 / lwona	03/10/2025 / lwona	W3186

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 / lwona	03/19/2025 / lwona	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 / lwona	03/19/2025 / lwona	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 / lwona	04/08/2025 / lwona	W3197

CHEMICAL RECEIPT LOG BOOK

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 / lwona	04/11/2025 / lwona	W3199

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.	J3568-1 / Sodium Borate, 500 gms	BCCL9613	05/31/2029	04/16/2025 / lwona	04/16/2025 / lwona	W3201

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	J3246-1 / POTAS PHOSPHATE, MONO, CRYST, ACS, 500G	MKWCW6723	10/31/2028	04/16/2025 / lwona	04/16/2025 / lwona	W3202

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	EM-BX0035-3 / Barbituric Acid, 100 gms	WXBF3271V	05/16/2029	04/21/2025 / lwona	04/21/2025 / lwona	W3203

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	J3246-1 / POTAS PHOSPHATE, MONO, CRYST, ACS, 500G	MKCCX1379	01/31/2029	04/29/2025 / lwona	04/29/2025 / lwona	W3206

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	RC2543-4 / CYANIDE STD 1000PPM 4OZ	1505H73	11/30/2025	05/21/2025 / lwona	05/21/2025 / lwona	W3214

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	2504D34	03/31/2027	07/02/2025 / jignesh	06/26/2025 / lwona	W3217

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	P243-500 / Potassium Hydrogen Phthalate, 500 gms	2025040493	06/30/2030	06/26/2025 / lwona	06/26/2025 / lwona	W3219

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	2506M51	12/31/2025	07/02/2025 / lwona	07/02/2025 / lwona	W3222

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	LC135457 / Cyanide Standard, 1000 PPM, Second Source	45060288	12/24/2025	07/07/2025 / lwona	07/07/2025 / lwona	W3224

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9262-03 / Hexane, Ultra-Resi (cs/4x4L)	25C0362006	04/30/2026	09/15/2025 / JIGNESH	09/12/2025 / JIGNESH	W3240

CHEMICAL RECEIPT LOG BOOK

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	10BDH15251	04/30/2029	10/02/2025 / lwona	10/02/2025 / lwona	W3241

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	TCX0014-500ML / p-xylene	WZWEH-WU	10/03/2029	10/06/2025 / rubina	10/03/2025 / lwona	W3242

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	J0938-7 / Ascorbic Acid, 500 gms	MKCX1143	01/31/2028	10/03/2025 / lwona	10/03/2025 / lwona	W3243

Certificate of analysis

Product No. 14125
Product: Lead(II) chromate, ACS, 98%
Lot No.: U19B018

Test	Limits	Results
Assay	98.0 % min	99.3 %
Soluble matter	0.15 % max	< 0.02 %
Carbon compounds	0.01 % max	< 0.01 %

Traceable to NIST? Yes

This document has been electronically generated and does not require a signature.

Order our products online www.alfa.com

ThermoFisher
SCIENTIFIC



CERTIFICATE OF ANALYSIS

Printed: 12/8/2017

Page 1 of 1

Customer No : 30017
Order Number : 3008126
Catalog : A1561

Customer : PCI SCIENTIFIC
Delivery # : 58495347
Potassium Antimony Tartrate Trihydrate,
Reagent, ACS

Customer PO : 6035343

Lot : 2GH0057

Chemical Formula : $C_8H_4K_2O_{12}Sb_2 \cdot 3H_2O$
CAS# : 28300-74-5

Formula Weight : 667.87

W2306
received
12/11/17
AB

Test

Limit
Min. Max.

Results

ASSAY ($C_8H_4K_2O_{12}Sb_2 \cdot 3HO$)	99.0 - 103.0 %	101.0 %
TITRATABLE ACID OR BASE	-- 0.020 meq/g	<0.020 meq/g
LOSS ON DRYING	-- 2.7 %	<2.7 %
ARSENIC (As)	-- 0.015 %	<0.015 %
APPEARANCE		WHITE POWDER
DATE OF MANUFACTURE		29-DEC-2015

All pharmaceutical ingredients are tested using current edition of applicable pharmacopeia.

Read and understand label and MSDS/SDS before handling any chemical. All Spectrum's chemicals are for manufacturing, processing, repacking or research purposes by experienced personnel only. The customer must ensure to provide its users adequate hazardous material training and appropriate protective gears before handling our chemicals.

Certificate of Analysis Results Certified By:

Product No.: 13450
Product: Potassium dichromate, ACS, 99.0% min
Lot No.: T15F019

Test	Limits	Results
Appearance	Orange-red crystals	Orange-red crystals
Identification	To Pass	Passes
Purity	99.0 % min	99.67 %
Insoluble matter	0.005 % max	0.004 %
Loss on drying	0.05 % max	0.03 %
Chloride	0.001 % max	< 0.001 %
Sulfate	0.005 % max	< 0.005 %
Iron	0.001 % max	< 0.001 %
Calcium	0.003 % max	0.0012 %
Sodium	0.02 % max	0.0047 %

Order our products online [alfa.com](https://www.thermofisher.com)

This document has been electronically generated and does not require a signature.

This is to certify that units of the lot number above 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 purchaser, formulator or those performing further manufacturing 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 above information is the actual analytical results obtained.

Ammonium Molybdate, 4-Hydrate, Crystal
BAKER ANALYZED® A.C.S. Reagent

(ammonium heptamolybdate, tetrahydrate)



Material No.: 0716-01
Batch No.: 0000234410
Manufactured Date: 2019/02/13
Retest Date: 2026/02/11
Revision No: 1

Certificate of Analysis

Meets ACS Reagent Chemical Requirements,

Test	Specification	Result
Assay (as MoO ₃)	81.0 – 83.0 %	81.4
ACS – Insoluble Matter	<= 0.005 %	< 0.001
Chloride (Cl)	<= 0.002 %	< 0.002
Nitrate (NO ₃)	Passes Test	PT
Arsenate, Phosphate and Silicate (as SiO ₂)	<= 0.001 %	< 0.001
ACS – Phosphate (PO ₄)	<= 5 ppm	< 5
Sulfate (SO ₄)	<= 0.02 %	< 0.02
Heavy Metals (as Pb)	<= 0.001 %	< 0.001
Magnesium (Mg)	<= 0.005 %	< 0.001
Potassium (K)	<= 0.01 %	< 0.01
Sodium (Na)	<= 0.01 %	<0.001

For Laboratory, Research or Manufacturing Use

Meets Reagent Specifications for testing USP/NF monographs

Country of Origin: US

Packaging Site: Paris Mfg Ctr & DC

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

Phenolphthalein, Powder
BAKER ANALYZED® A.C.S. Reagent



Material No.: 2870-01
Batch No.: 0000235350
Manufactured Date: 2018/06/06
Retest Date: 2025/06/04
Revision No: 1

Certificate of Analysis

Meets ACS Reagent Chemical Requirements,

Test	Specification	Result
ACS – Clarity of Solution	Passes Test	PT
Visual Transition Interval – pH...8.0 (Colorless)	Passes Test	PT
Visual Transition Interval – pH...10.0 (Red)	Passes Test	PT

For Laboratory, Research or Manufacturing Use

Country of Origin: CN
Packaging Site: Paris Mfg Ctr & DC


Jamie Ethier
Vice President Global Quality

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

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



Certificate Of Analysis

Item Number	P1060	Lot Number	2HD0179
Item	Phenol, Loose Crystal, Reagent, ACS		
CAS Number	108-95-2		
Molecular Formula	C ₆ H ₆ O	Molecular Weight	94.11

Test	Specification		Result
	min	max	
ASSAY (C ₆ H ₅ OH)	99.0 %		100.02 %
FREEZING POINT (DRY)	40.5 C		40.5°C
CLARITY OF SOLUTION	TO PASS TEST		PASSES TEST
RESIDUE AFTER EVAPORATION		0.05 %	<0.05 %
WATER		0.5 %	0.0087 %
DATE OF MANUFACTURE			06-MAR-2018

Spectrum Chemical Mfg Corp
755 Jersey Avenue
New Brunswick 08901 NJ



Certificate Of Analysis Results Certified by

Ibad Tirmizi
Director of Quality
Spectrum Chemical Mfg. Corp.

All pharmaceutical ingredients are tested using current edition of applicable pharmacopeia.

Read and understand label and SDS before handling any chemicals. All Spectrum's chemicals are for manufacturing, processing, repacking or research purposes by experienced personnel only. It is the customer's responsibility to provide adequate hazardous material training and ensure that appropriate Personal Protective Equipment (PPE) is used before handling any chemical.

Hexadecane, 99.0%



Material No.: H223-57
Batch No.: 0000266903
Manufactured Date: 2020/05/05
Retest Date: 2027/05/04
Revision No: 1

Certificate of Analysis

Test	Specification	Result
Assay (CH ₃ (CH ₂) ₁₄ CH ₃) (by GC)	>= 99.0 %	99.3
Infrared Spectrum	Passes Test	PT

For Laboratory, Research or Manufacturing Use

Country of Origin: US
Packaging Site: Paris Mfg Ctr & DC


Jamie Ethier
Vice President Global Quality

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

Phosphoric Acid
BAKER ANALYZED® A.C.S. Reagent

(orthophosphoric acid)



Material No.: 0260-03
Batch No.: 0000278313
Manufactured Date: 2021/02/01
Retest Date: 2026/01/31
Revision No: 2

Certificate of Analysis

Meets ACS Reagent Chemical Requirements,

Test	Specification	Result
Assay (H ₃ PO ₄) (by acidimetry)	85.0 – 87.0 %	85.8
Calcium (Ca)	<= 0.002 %	< 0.001
Color (APHA)	<= 10	5
Insoluble Matter	<= 0.001 %	< 0.001
ACS – Magnesium (Mg)	<= 0.002 %	<0.002
Sulfate (SO ₄)	<= 12 ppm	< 4
Volatile Acids (as CH ₃ COOH)	<= 0.001 %	0.001
Reducing Substances	Passes Test	PT
Chloride (Cl)	<= 3 ppm	< 1
Nitrate (NO ₃)	<= 5 ppm	< 2
Trace Impurities – Antimony (Sb)	<= 20.000 ppm	0.007
Trace Impurities – Arsenic (As)	<= 0.500 ppm	< 0.001
Trace Impurities – Iron (Fe)	<= 10.000 ppm	< 1.000
Heavy Metals (as Pb)	<= 8 ppm	< 3
Trace Impurities – Manganese (Mn)	<= 0.500 ppm	0.005
Trace Impurities – Potassium (K)	<= 40.000 ppm	< 0.001
Trace Impurities – Sodium (Na)	<= 200.000 ppm	0.082

For Laboratory, Research or Manufacturing Use
Exceeds A.C.S. Specifications
Meets Reagent Specifications for testing USP/NF monographs

Country of Origin: US
Packaging Site: Phillipsburg Mfg Ctr & DC


Jamie Ethier
Vice President Global Quality

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

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

Order our products online [alfa.com](https://www.alfa.com)

This document has been electronically generated and does not require a signature.

This is to certify that units of the lot number above 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 purchaser, formulator or those performing further manufacturing 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 above information is the actual analytical results obtained.

W2817
REC. 04/02/2021

Product Name: Stearic acid, 98%, Thermo Scientific Chemicals
Catalog Number: A12244.14

CAS Number: 57-11-4
Molecular Formula: C₁₈H₃₆O₂
Molecular Weight: 284.48
InChI Key: QIQXTHQIDYTRH-UHFFFAOYSA-N
SMILES: CCCCCCCCCCCCCCCC(O)=O
Synonym: stearic acid acide stearique hydrofol acid 1855 hydrofol acid 1655 industrene 5016
stearic acid, ion(1-) (8Cl) glycon TP glycon DP acidum stearinicum hydrofol acid 150

Product Specification

Appearance (Color): White
Form: Crystals or powder or crystalline powder or flakes or waxy solid
Assay (Silylated GC): ≥97.5%
Melting Point (clear melt): 67.0-74.0°C

Date Of Print: 11/30/2023

Product Specifications are subject to amendment and may change over time. Data contained is accurate as of the date printed.



CERTIFICATE OF ANALYSIS

Product Name ISOPROPYL ALCOHOL, 99%
Grade Meets ACS/USP/NF Monographs
Catalog # 231000099, zp231000099
Lot # C20F23007
Date of Manufacture: 06/23/20 **W2788 Received on 12/30/2020 by AP**
Recommended Retest Date: Five Years from Date of Manufacture

TEST	MONO GRAPH	SPECIFICATION	RESULT
Assay (corrected for water)	USP	99.0% min	99.92%
Assay (corrected for water)	ACS	99.5% min	
Solubility in water	ACS ⁺	To Pass Test	Pass
Appearance	ACS ⁺	Clear, colorless liquid	Pass
Color, APHA	ACS	10 max	1
Limit of Nonvolatile Residue	USP ⁺	NMT 2.5 mg (0.005%)	0.1 mg
Residue after Evaporation	ACS ⁺	0.001% max	< 0.001%
Specific Gravity	USP	0.783 - 0.787 @25°C	0.783
Identification A - Infrared Absorption	USP	To Pass Test	Pass
Identification B	USP	To Pass Test	Pass
Refractive Index @ 20°C	USP	1.376-1.378	1.377
Acidity	USP ⁺	NMT 0.70 ml of 0.020N NaOH is required	0.30 mL
Titration Acid or Base	ACS ⁺	0.0001 meq/g max	0.0001 meq/g
Carbonyl Compounds	ACS	Propionaldehyde 0.002% max	< 0.002%
		Acetone 0.002% max	None Detected
Limit of Volatile Impurities	USP	Diethyl Ether NMT 0.1%	< 0.1%
		Acetone NMT 0.1%	None Detected
		Diisopropyl Ether NMT 0.1%	< 0.1%
		n-Propyl Alcohol NMT 0.1%	< 0.1%
		2-Butanol NMT 0.1%	< 0.1%
		Total NMT 1.0%	< 0.1%
Water, wt%	ACS	NMT 0.2%	0.05%
Water Determination	USP	NMT 0.5%	

⁺This test is performed quarterly

Certification and Compliance Statements

This lot of Isopropyl Alcohol complies with all of the current requirements listed in the United States Pharmacopeia, American Chemical Society monographs and the National Formulary.

No chemicals whatsoever are used as solvents at any point in the manufacture, processing or packaging of Isopropyl Alcohol. Only Class 2 and Class 3 residual solvents may appear as impurities / related substances / low level contaminants in IPA. Concentration of Class 2 Option 1 and Class 3 residual solvents is below limits in the current USP/NF General Chapter <467>.

This product is not derived, nor does it come in contact with, any materials derived from bovine or other animal sources.

This product is for further commercial manufacturing, laboratory or research use, and may be used as an excipient or a process solvent for pharmaceutical purposes. It is not intended for use as an active ingredient in drug manufacturing nor as a medical device or disinfectant. Appropriate/legal use of this product is the responsibility of the user.

Approved by: D. Simoncelli, Quality Control Chemist

Date of Approval: 06/23/2020



~~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.

W3009
rec. 2/27/2023 12

Product Name:

Hexadecane - ReagentPlus®, 99%

Certificate of Analysis

Product Number:

H6703

Batch Number:

SHBP8192

 $\text{CH}_3(\text{CH}_2)_{14}\text{CH}_3$

Brand:

SIAL

CAS Number:

544-76-3

MDL Number:

MFCD00008998

Formula:

C16H34

Formula Weight:

226.44 g/mol

Quality Release Date:

04 AUG 2022

Test	Specification	Result
Appearance (Color)	Colorless or White	Colorless
Appearance (Form)	Liquid or Solid	Liquid
Infrared Spectrum	Conforms to Structure	Conforms
Refractive index at 20 ° C	1.432 - 1.436	1.435
Purity (GC)	≥ 98.5 %	99.3 %
Color Test	≤ 20 APHA	< 5 APHA


Larry Coers, Director

Quality Control

Sheboygan Falls, WI US

Sigma-Aldrich warrants, that at the time of the quality release or subsequent retest date this product conformed to the information contained in this publication. The current Specification sheet may be available at Sigma-Aldrich.com. For further inquiries, please contact Technical Service. Purchaser must determine the suitability of the product for its particular use. See reverse side of invoice or packing slip for additional terms and conditions of sale.



W3019
rec 4/3/23

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:

Pyridine - anhydrous, 99.8%

Product Number:

270970

Batch Number:

SHBQ2113

Brand:

SIAL

CAS Number:

110-86-1

MDL Number:

MFCD00011732

Formula:

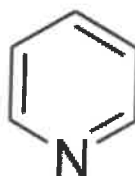
C₅H₅N

Formula Weight:

79.10 g/mol

Quality Release Date:

15 DEC 2022



Test	Specification	Result
Appearance (Color)	Colorless	Colorless
Appearance (Form)	Liquid	Liquid
Infrared Spectrum	Conforms to Structure	Conforms
Purity (GC)	≥ 99.75 %	99.99 %
Water (by Karl Fischer)	≤ 0.003 %	0.002 %
Residue on Evaporation	≤ 0.0005 %	< 0.0001 %


Larry Coers, Director
Quality Control
Sheboygan Falls, WI US

Sigma-Aldrich warrants, that at the time of the quality release or subsequent retest date this product conformed to the information contained in this publication. The current Specification sheet may be available at Sigma-Aldrich.com. For further inquiries, please contact Technical Service. Purchaser must determine the suitability of the product for its particular use. See reverse side of invoice or packing slip for additional terms and conditions of sale.



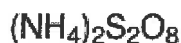
W 3035
rec. 6/6/23 12

Product Name:

Certificate of Analysis

Ammonium persulfate - ACS reagent, $\geq 98.0\%$

Product Number: 248614
Batch Number: MKCR9319
Brand: SIGALD
CAS Number: 7727-54-0
MDL Number: MFCD00003390
Formula Weight: 228.20 g/mol
Quality Release Date: 13 OCT 2022



Test	Specification	Result
Appearance (Color)	White to Off White	White
Appearance (Form)	Powder or Crystals or Granules or Chunks	Crystals
ICP Major Analysis	Confirmed	Confirmed
Confirms Sulfur Component		
Titration by KMNO ₄	$\geq 98.0 \%$	100.0 %
Residue on ignition (Ash)	$\leq 0.05 \%$	$< 0.05 \%$
Insoluble Matter	$\leq 0.005 \%$	0.002 %
c = 10 %; In Water		
Chloride and Chlorate (as Cl)	$\leq 0.001 \%$	$< 0.001 \%$
Iron (Fe)	$\leq 0.001 \%$	$< 0.001 \%$
Heavy Metal	$\leq 0.005 \%$	$< 0.001 \%$
as Lead		
Manganese (Mn)	$\leq 0.5 \text{ ppm}$	$< 0.1 \text{ ppm}$
Titrateable Acid (meq/g)	≤ 0.04	< 0.04
Meets ACS Requirements	Current ACS Specification	Conforms


Larry Coers, Director
Quality Control
Milwaukee, WI US

Sigma-Aldrich warrants, that at the time of the quality release or subsequent retest date this product conformed to the information contained in this publication. The current Specification sheet may be available at Sigma-Aldrich.com. For further inquiries, please contact Technical Service. Purchaser must determine the suitability of the product for its particular use. See reverse side of invoice or packing slip for additional terms and conditions of sale.





Certificate of Analysis

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

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

This is to certify that units of the lot number below were tested and found to comply with the specifications of the grade listed. Certain data have been supplied by third parties. Thermo Fisher Scientific expressly disclaims all warranties, expressed or implied, including the implied warranties of merchantability and fitness for a particular purpose. Products are for research use or further manufacturing. Not for direct administration to humans or animals. It is the responsibility of the final formulator and end user to determine suitability based upon the intended use of the end product. Products are tested to meet the analytical requirements of the noted grade. The following information is the actual analytical results obtained.

Catalog Number	P188	Quality Test / Release Date	08/12/2019
Lot Number	194664		
Description	POTASSIUM DICHROMATE, A.C.S.		
Country of Origin	United States	Suggested Retest Date	Aug/2024
Chemical Origin	Inorganic-non animal		
BSE/TSE Comment	No animal products are used as starting raw material ingredients, or used in processing, including lubricants, processing aids, or any other material that might migrate to the finished product.		
Chemical Comment			

N/A			
Result Name	Units	Specifications	Test Value
APPEARANCE		REPORT	Fine, orange-red crystals
ASSAY	%	>= 99	99.2
CALCIUM	%	<= 0.003	<0.003
CHLORIDE	%	<= 0.001	<0.001
LOSS ON DRYING @ 105 C	%	<= 0.05	<0.05
SULFATE (SO4)	%	<= 0.005	<0.005
INSOLUBLE MATTER	%	<= 0.005	0.003
IRON (Fe)	%	<= 0.001	<0.001
SODIUM (Na)	%	<= 0.02	<0.02
IDENTIFICATION	PASS/FAIL	= PASS TEST	PASS TEST

Jerusa 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.



**PRODUCTOS
QUÍMICOS
MONTERREY, S.A. DE C.V.**

MIRADOR 201, COL. MIRADOR
MONTERREY, N.L. MÉXICO
CP 64070
TEL +52 81 13 52 67 67
www.pqm.com.mx

CERTIFICATE OF ANALYSIS

PRODUCT :	SODIUM SULFATE CRYSTALS ANHYDROUS		
QUALITY :	ACS (CODE RMB3375)	FORMULA :	Na ₂ SO ₄
SPECIFICATION NUMBER:	6399	RELEASE DATE:	MAY/23/2024
LOT NUMBER :	417203		

TEST	SPECIFICATIONS	LOT VALUES
Assay (Na ₂ SO ₄)	Min. 99.0%	99.8 %
pH of a 5% solution at 25°C	5.2 - 9.2	6.2
Insoluble matter	Max. 0.01%	0.001 %
Loss on ignition	Max. 0.5%	0.1 %
Chloride (Cl)	Max. 0.001%	<0.001 %
Nitrogen compounds (as N)	Max. 5 ppm	<5 ppm
Phosphate (PO ₄)	Max. 0.001%	<0.001 %
Heavy metals (as Pb)	Max. 5 ppm	<5 ppm
Iron (Fe)	Max. 0.001%	<0.001 %
Calcium (Ca)	Max. 0.01%	0.001 %
Magnesium (Mg)	Max. 0.005%	0.001 %
Potassium (K)	Max. 0.008%	0.001 %
Extraction-concentration suitability	Passes test	Passes test
Appearance	Passes test	Passes test
Identification	Passes test	Passes test
Solubility and foreign matter	Passes test	Passes test
Retained on US Standard No. 10 sieve	Max. 1%	0.2 %
Retained on US Standard No. 60 sieve	Min. 94%	96.2 %
Through US Standard No. 60 sieve	Max. 5%	3.5 %
Through US Standard No. 100 sieve	Max. 10%	0.1 %

COMMENTS

QC: PhC Irma Belmares

If you need further details, please call our factory or contact our local distributor.

RE-02-01, Ed. 3

E 3875

Acetone
BAKER RESI-ANALYZED® Reagent
For Organic Residue Analysis

avantor™



Material No.: 9254-03
Batch No.: 24H1462005
Manufactured Date: 2024-05-24
Expiration Date: 2027-05-24
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay ((CH ₃) ₂ CO) (by GC, corrected for water)	>= 99.4 %	99.8 %
Color (APHA)	<= 10	5
Residue after Evaporation	<= 1.0 ppm	0.2 ppm
Substances Reducing Permanganate	Passes Test	Passes Test
Titration Acid (µeq/g)	<= 0.3	0.2
Titration Base (µeq/g)	<= 0.6	<0.1
Water (H ₂ O)	<= 0.5 %	0.2 %
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	<= 5	<1
ECD Sensitive Impurities (as Heptachlor Epoxide) Single Peak (pg/mL)	<= 10	1

For Laboratory, Research, or Manufacturing Use
MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: United States
Packaging Site: Phillipsburg Mfg Ctr & DC

E3972

Jamie Croak
Director Quality Operations, Bioscience Production

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700

Acetone

BAKER RESI-ANALYZED® Reagent
For Organic Residue Analysis

avantor™



Material No.: 9254-03

Batch No.: 24L1062001

Manufactured Date: 2024-10-04

Expiration Date: 2027-10-04

Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay ((CH ₃) ₂ CO) (by GC, corrected for water)	>= 99.4 %	99.7 %
Color (APHA)	<= 10	5
Residue after Evaporation	<= 1.0 ppm	0.3 ppm
Substances Reducing Permanganate	Passes Test	Passes Test
Titration Acid (μeq/g)	<= 0.3	0.1
Titration Base (μeq/g)	<= 0.6	<0.1
Water (H ₂ O)	<= 0.5 %	0.3 %
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	<= 5	<1
ECD Sensitive Impurities (as Heptachlor Epoxide) Single Peak (pg/mL)	<= 10	1

For Laboratory, Research, or Manufacturing Use

MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

received on 11/12/25

Country of Origin: United States

Packaging Site: Phillipsburg Mfg Ctr & DC

E3987

J. Croak

Jamie Croak
Director Quality Operations, Bioscience Production

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700



QUALITY ASSURANCE TECHNICAL SUPPORT LABORATORY
"An ISO 9001:2015 Certified Program"

Instructions for QATS Reference Material: *Inorganic ICV Solutions*

QATS LABORATORY INORGANIC REFERENCE MATERIAL
INITIAL CALIBRATION VERIFICATION SOLUTIONS
(ICV1, ICV5, AND ICV6)

NOTE: These instructions are for advisory purposes only. If any apparent conflict exists between these instructions and the analytical protocol or your contract, disregard these instructions.

APPLICATION: For use with the CLP SFAM01.0 SOW and revisions.

CAUTION: Read instructions carefully before opening bottle(s) and proceeding with the analyses.

Contains Metals in Dilute Acidic or
Cyanide in Basic Aqueous Solutions
HAZARDOUS MATERIAL

Safety Data Sheets
Available Upon Request

W2160, W2161, W2162,
W2163, W2164 Receive by
AP on 9/2/2016

(A) SAMPLE DESCRIPTION

Enclosed is a set of one (1) or more Aqueous Inorganic Reference Materials containing various analyte concentrations. ICV1 and ICV5 are in a matrix of dilute nitric acid. ICV6 is in a matrix of dilute basic solution. **For the reference material source in reporting ICVs use "USEPA". For the reference material lot number for the ICV1, ICV5, and ICV6 solutions use "ICV1-1014", "ICV5-0415", and "ICV6-0400", respectively.**

(B) BREAKAGE OR MISSING ITEMS

Check the contents of the shipment carefully for any broken, leaking, or missing items. Check that the seal is intact on each bottle. Refer to the enclosed chain of custody record. Report any problems to Mr. Keith Strout, APTIM Federal Services, LLC, at (702) 895-8722. If requested, return the chain-of-custody record with appropriate annotations and signatures to the address provided below.

QUALITY ASSURANCE TECHNICAL SUPPORT LABORATORY
APTIM Federal Services, LLC
2700 Chandler Avenue - Building C
Las Vegas, NV 89120

(C) ANALYSIS OF SAMPLES

The Initial Calibration Verification Solutions (ICVs) are to be used to evaluate the accuracy of the initial calibrations of ICP, AA, and Cyanide colorimetric instruments, and are to be used with the CLP SOWs and revisions. The values for each element in the ICVs are listed below in µg/L (ppb) for the resulting solution(s) after the dilution of the concentrate(s) according to the following instructions. Use Class 'A' glassware to prepare the solution(s).

ICV1-1014 For ICP-AES analysis, use a 10-fold dilution by pipetting 10 mL of the ICV1 concentrate into a 100 mL volumetric flask and dilute to volume with 2% (v/v) nitric acid.



Instructions for QATS Reference Material: *Inorganic ICV Solutions*

- ICV1-1014** For ICP-MS analysis, use a 50-fold dilution by pipetting 2 mL of the ICV1 concentrate into a 100 mL volumetric flask and dilute to volume with 1% (v/v) nitric acid.
- ICV5-0415** For the cold vapor analysis of mercury by AA, use a 100-fold dilution by pipetting 1 mL of the ICV5 concentrate into a 100 mL volumetric flask and dilute to volume with 2% (v/v) nitric acid. The ICV5 concentrate is prepared in 0.05% (w/v) K₂Cr₂O₇ and 5% (v/v) nitric acid.
- ICV6-0400** For the analysis of cyanide, use a 100-fold dilution by pipetting 1 mL of the ICV6 concentrate into a 100 mL volumetric flask and dilute to volume with Type II water. Distill this solution along with the samples before analysis. The cyanide concentrate is prepared from K₃Fe(CN)₆, Type II water, and 0.1 % sodium hydroxide, and will decompose rapidly if exposed to light.

NOTE: USE TYPE II WATER AND HIGH-PURITY ACIDS FOR ALL DILUTIONS.

(D) CERTIFIED CONCENTRATIONS OF QATS ICV1, ICV5, AND ICV6 SOLUTIONS

ICV1-1014		
Element	Concentration (µg/L) (after 10-fold dilution)	Concentration (µg/L) (after 50-fold dilution)
Al	2500	500
Sb	1000	200
As	1000	200
Ba	520	100
Be	510	100
Cd	510	100
Ca	10000	2000
Cr	520	100
Co	520	100
Cu	510	100
Fe	10000	2000
Pb	1000	200
Mg	6000	1200
Mn	520	100
Ni	530	110
K	9900	2000
Se	1000	200
Ag	250	50
Na	10000	2000
Tl	1000	210
V	500	100
Zn	1000	200

ICV5-0415		ICV6-0400	
Element	Concentration (µg/L) (after 100-fold dilution)	Analyte	Concentration (µg/L) (after 100-fold dilution)
Hg	4.0	CN ⁻	99

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

avantor™



M 6041-4b
MS

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

 **avantorsm**

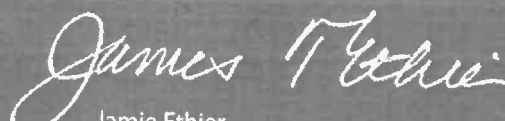


Material No.: 9673-33
Batch No.: 23D2462010

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

Hydrochloric Acid, 36.5–38.0%
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis

avantor™



M6151

R → 11/15/25

Material No.: 9530-33
Batch No.: 22G2862015
Manufactured Date: 2022-06-15
Retest Date: 2027-06-14
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
ACS – Assay (as HCl) (by acid–base titrn)	36.5 – 38.0 %	37.9 %
ACS – Color (APHA)	≤ 10	5
ACS – Residue after Ignition	≤ 3 ppm	< 1 ppm
ACS – Specific Gravity at 60°/60°F	1.185 – 1.192	1.191
ACS – Bromide (Br)	≤ 0.005 %	< 0.005 %
ACS – Extractable Organic Substances	≤ 5 ppm	< 1 ppm
ACS – Free Chlorine (as Cl ₂)	≤ 0.5 ppm	< 0.5 ppm
Phosphate (PO ₄)	≤ 0.05 ppm	< 0.03 ppm
Sulfate (SO ₄)	≤ 0.5 ppm	< 0.3 ppm
Sulfite (SO ₃)	≤ 0.8 ppm	0.3 ppm
Ammonium (NH ₄)	≤ 3 ppm	< 1 ppm
Trace Impurities – Arsenic (As)	≤ 0.010 ppm	< 0.003 ppm
Trace Impurities – Aluminum (Al)	≤ 10.0 ppb	1.3 ppb
Arsenic and Antimony (as As)	≤ 5.0 ppb	< 3.0 ppb
Trace Impurities – Barium (Ba)	≤ 1.0 ppb	0.2 ppb
Trace Impurities – Beryllium (Be)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities – Bismuth (Bi)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Boron (B)	≤ 20.0 ppb	< 5.0 ppb
Trace Impurities – Cadmium (Cd)	≤ 1.0 ppb	< 0.3 ppb
Trace Impurities – Calcium (Ca)	≤ 50.0 ppb	163.0 ppb
Trace Impurities – Chromium (Cr)	≤ 1.0 ppb	0.7 ppb
Trace Impurities – Cobalt (Co)	≤ 1.0 ppb	< 0.3 ppb
Trace Impurities – Copper (Cu)	≤ 1.0 ppb	< 0.1 ppb
Trace Impurities – Gallium (Ga)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities – Germanium (Ge)	≤ 3.0 ppb	< 2.0 ppb
Trace Impurities – Gold (Au)	≤ 4.0 ppb	0.6 ppb
Heavy Metals (as Pb)	≤ 100 ppb	< 50 ppb
Trace Impurities – Iron (Fe)	≤ 15 ppb	6 ppb

>>> Continued on page 2 >>>

Hydrochloric Acid, 36.5–38.0%
 BAKER INSTRA-ANALYZED® Reagent
 For Trace Metal Analysis



Material No.: 9530-33
 Batch No.: 22G2862015

Test	Specification	Result
Trace Impurities – Lead (Pb)	≤ 1.0 ppb	< 0.5 ppb
Trace Impurities – Lithium (Li)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities – Magnesium (Mg)	≤ 10.0 ppb	2.9 ppb
Trace Impurities – Manganese (Mn)	≤ 1.0 ppb	< 0.4 ppb
Trace Impurities – Mercury (Hg)	≤ 0.5 ppb	0.1 ppb
Trace Impurities – Molybdenum (Mo)	≤ 10.0 ppb	< 3.0 ppb
Trace Impurities – Nickel (Ni)	≤ 4.0 ppb	< 0.3 ppb
Trace Impurities – Niobium (Nb)	≤ 1.0 ppb	0.8 ppb
Trace Impurities – Potassium (K)	≤ 9.0 ppb	< 2.0 ppb
Trace Impurities – Selenium (Se), For Information Only		< 1.0 ppb
Trace Impurities – Silicon (Si)	≤ 100.0 ppb	< 10.0 ppb
Trace Impurities – Silver (Ag)	≤ 1.0 ppb	0.5 ppb
Trace Impurities – Sodium (Na)	≤ 100.0 ppb	2.3 ppb
Trace Impurities – Strontium (Sr)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities – Tantalum (Ta)	≤ 1.0 ppb	1.6 ppb
Trace Impurities – Thallium (Tl)	≤ 5.0 ppb	< 2.0 ppb
Trace Impurities – Tin (Sn)	≤ 5.0 ppb	4.0 ppb
Trace Impurities – Titanium (Ti)	≤ 1.0 ppb	1.5 ppb
Trace Impurities – Vanadium (V)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities – Zinc (Zn)	≤ 5.0 ppb	0.8 ppb
Trace Impurities – Zirconium (Zr)	≤ 1.0 ppb	0.3 ppb

>>> Continued on page 3 >>>

Hydrochloric Acid, 36.5–38.0%
BAKER INSTRA–ANALYZED® Reagent
For Trace Metal Analysis

 **avantor**™

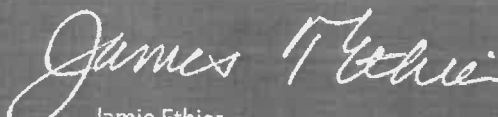


Material No.: 9530-33
Batch No.: 22G2862015

Test	Specification	Result
------	---------------	--------

For Laboratory, Research, or Manufacturing Use
Product Information (not specifications):
Appearance (clear, fuming liquid)
Meets ACS Specifications
Storage Condition: Store below 25 °C.

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC


Jamie Ethier
Vice President Global Quality

Nitric Acid 69%
CMOS

avantor™



m-6162

Material No.: 9606-03
Batch No.: 24H0162012
Manufactured Date: 2024-06-28
Retest Date: 2029-06-27
Revision No.: 0

R. Date :- 04/27/2025

Certificate of Analysis

Test	Specification	Result
Assay (HNO ₃)	69.0 – 70.0 %	69.7 %
Appearance	Passes Test	Passes Test
Color (APHA)	≤ 10	5
Residue after Ignition	≤ 2 ppm	< 1 ppm
Chloride (Cl)	≤ 0.08 ppm	0.03 ppm
Phosphate (PO ₄)	≤ 0.10 ppm	< 0.03 ppm
Sulfate (SO ₄)	≤ 0.2 ppm	< 0.2 ppm
Trace Impurities – Aluminum (Al)	≤ 40.0 ppb	< 1.0 ppb
Arsenic and Antimony (as As)	≤ 5.0 ppb	< 2.0 ppb
Trace Impurities – Barium (Ba)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Beryllium (Be)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Bismuth (Bi)	≤ 20.0 ppb	< 1.0 ppb
Trace Impurities – Boron (B)	≤ 10.0 ppb	0.1 ppb
Trace Impurities – Cadmium (Cd)	≤ 50 ppb	< 1 ppb
Trace Impurities – Calcium (Ca)	≤ 50.0 ppb	0.3 ppb
Trace Impurities – Chromium (Cr)	≤ 30.0 ppb	0.1 ppb
Trace Impurities – Cobalt (Co)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Copper (Cu)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Gallium (Ga)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Germanium (Ge)	≤ 20 ppb	< 1 ppb
Trace Impurities – Gold (Au)	≤ 20 ppb	< 1 ppb
Heavy Metals (as Pb)	≤ 100 ppb	< 50 ppb
Trace Impurities – Iron (Fe)	≤ 40.0 ppb	< 1.0 ppb
Trace Impurities – Lead (Pb)	≤ 20.0 ppb	< 1.0 ppb
Trace Impurities – Lithium (Li)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Magnesium (Mg)	≤ 20 ppb	< 1 ppb
Trace Impurities – Manganese (Mn)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Nickel (Ni)	≤ 20.0 ppb	< 1.0 ppb

>>> Continued on page 2 >>>

Nitric Acid 69%
CMOS

avantor™



Material No.: 9606-03
Batch No.: 24H0162012

Test	Specification	Result
Trace Impurities – Niobium (Nb)	≤ 50.0 ppb	< 1.0 ppb
Trace Impurities – Potassium (K)	≤ 50 ppb	< 1 ppb
Trace Impurities – Silicon (Si)	≤ 50 ppb	1 ppb
Trace Impurities – Silver (Ag)	≤ 20.0 ppb	< 1.0 ppb
Trace Impurities – Sodium (Na)	≤ 150.0 ppb	< 1.0 ppb
Trace Impurities – Strontium (Sr)	≤ 30.0 ppb	< 1.0 ppb
Trace Impurities – Tantalum (Ta)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Thallium (Tl)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Tin (Sn)	≤ 20.0 ppb	< 1.0 ppb
Trace Impurities – Titanium (Ti)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Vanadium (V)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Zinc (Zn)	≤ 20.0 ppb	< 1.0 ppb
Trace Impurities – Zirconium (Zr)	≤ 10.0 ppb	< 1.0 ppb
Particle Count – 0.5 µm and greater	≤ 60 par/ml	13 par/ml
Particle Count – 1.0 µm and greater	≤ 10 par/ml	5 par/ml

>>> Continued on page 3 >>>



Test	Specification	Result

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

Joak

Jamie Croak
Director Quality Operations, Bioscience Production

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

avantor™



MG186

Reciev Date :- 08/06/25

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

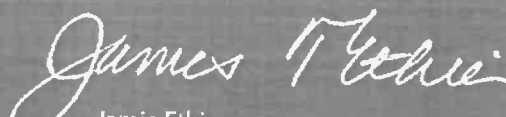


Material No.: 9673-33
Batch No.: 23D2462010

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

Nitric Acid 69%
CMOS



M6187

R.D :- 08/08/25

Material No.: 9606-03
Batch No.: 24H0162012
Manufactured Date: 2024-06-28
Retest Date: 2029-06-27
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay (HNO ₃)	69.0 – 70.0 %	69.7 %
Appearance	Passes Test	Passes Test
Color (APHA)	≤ 10	5
Residue after Ignition	≤ 2 ppm	< 1 ppm
Chloride (Cl)	≤ 0.08 ppm	0.03 ppm
Phosphate (PO ₄)	≤ 0.10 ppm	< 0.03 ppm
Sulfate (SO ₄)	≤ 0.2 ppm	< 0.2 ppm
Trace Impurities – Aluminum (Al)	≤ 40.0 ppb	< 1.0 ppb
Arsenic and Antimony (as As)	≤ 5.0 ppb	< 2.0 ppb
Trace Impurities – Barium (Ba)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Beryllium (Be)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Bismuth (Bi)	≤ 20.0 ppb	< 1.0 ppb
Trace Impurities – Boron (B)	≤ 10.0 ppb	0.1 ppb
Trace Impurities – Cadmium (Cd)	≤ 50 ppb	< 1 ppb
Trace Impurities – Calcium (Ca)	≤ 50.0 ppb	0.3 ppb
Trace Impurities – Chromium (Cr)	≤ 30.0 ppb	0.1 ppb
Trace Impurities – Cobalt (Co)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Copper (Cu)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Gallium (Ga)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Germanium (Ge)	≤ 20 ppb	< 1 ppb
Trace Impurities – Gold (Au)	≤ 20 ppb	< 1 ppb
Heavy Metals (as Pb)	≤ 100 ppb	< 50 ppb
Trace Impurities – Iron (Fe)	≤ 40.0 ppb	< 1.0 ppb
Trace Impurities – Lead (Pb)	≤ 20.0 ppb	< 1.0 ppb
Trace Impurities – Lithium (Li)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Magnesium (Mg)	≤ 20 ppb	< 1 ppb
Trace Impurities – Manganese (Mn)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Nickel (Ni)	≤ 20.0 ppb	< 1.0 ppb

>>> Continued on page 2 >>>

Nitric Acid 69%
CMOS



Material No.: 9606-03
Batch No.: 24H0162012

Test	Specification	Result
Trace Impurities – Niobium (Nb)	≤ 50.0 ppb	< 1.0 ppb
Trace Impurities – Potassium (K)	≤ 50 ppb	< 1 ppb
Trace Impurities – Silicon (Si)	≤ 50 ppb	1 ppb
Trace Impurities – Silver (Ag)	≤ 20.0 ppb	< 1.0 ppb
Trace Impurities – Sodium (Na)	≤ 150.0 ppb	< 1.0 ppb
Trace Impurities – Strontium (Sr)	≤ 30.0 ppb	< 1.0 ppb
Trace Impurities – Tantalum (Ta)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Thallium (Tl)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Tin (Sn)	≤ 20.0 ppb	< 1.0 ppb
Trace Impurities – Titanium (Ti)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Vanadium (V)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Zinc (Zn)	≤ 20.0 ppb	< 1.0 ppb
Trace Impurities – Zirconium (Zr)	≤ 10.0 ppb	< 1.0 ppb
Particle Count – 0.5 µm and greater	≤ 60 par/ml	13 par/ml
Particle Count – 1.0 µm and greater	≤ 10 par/ml	5 par/ml

>>> Continued on page 3 >>>

Sodium Phosphate, Monobasic, Monohydrate,
Crystal
BAKER ANALYZED® A.C.S. Reagent

(sodium dihydrogen phosphate, monohydrate)



Material No.: 3818-05
Batch No.: 0000225799
Manufactured Date: 2018/12/05
Retest Date: 2025/12/03
Revision No: 1

Certificate of Analysis

Meets ACS Reagent Chemical Requirements,

Test	Specification	Result
Assay ($\text{NaH}_2\text{PO}_4 \cdot \text{H}_2\text{O}$)	98.0 – 102.0 %	99.5
pH of 5% Solution at 25°C	4.1 – 4.5	4.3
Insoluble Matter	≤ 0.01 %	< 0.01
Chloride (Cl)	≤ 5 ppm	< 5
ACS – Sulfate (SO_4)	≤ 0.003 %	< 0.003
Calcium (Ca)	≤ 0.005 %	< 0.005
Potassium (K)	≤ 0.01 %	< 0.01
Heavy Metals (as Pb)	≤ 0.001 %	< 0.001
Trace Impurities – Iron (Fe)	≤ 0.001 %	< 0.001

For Laboratory, Research or Manufacturing Use
Meets Reagent Specifications for testing USP/NF monographs

Country of Origin: IN
Packaging Site: Paris Mfg Ctr & DC


Jamie Ethier
Vice President Global Quality

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

W 2979

Rec: 12/09/22

exp. 12/09/27

Product Name:

1,5-Diphenylcarbazine - ACS reagent

Product Number:

259225

Batch Number:

MKCR6636

Brand:

SIAL

CAS Number:

140-22-7

MDL Number:

MFCD00003013

Formula:

C₁₃H₁₄N₄O

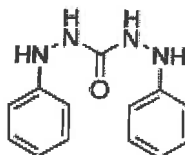
Formula Weight:

242.28 g/mol

Quality Release Date:

02 JUN 2022

Certificate of Analysis



Test	Specification	Result
Appearance (Color)	Conforms to Requirements	Pink
Off-White to Pink, Light Purple or Tan		
Appearance (Form)	Powder or Chunks	Powder
Melting Point	173.0 - 176.0 °C	173.0 °C
Infrared Spectrum	Conforms to Structure	Conforms
Residue on ignition (Ash)	≤ 0.05 %	0.01 %
15 minutes, 800 Degrees Celsius		
Solubility	Pass	Pass
Sensitivity Test	Pass	Pass
Meets ACS Requirements	Current ACS Specification	Conforms



Larry Coers, Director
Quality Control
Milwaukee, WI US

Sigma-Aldrich warrants, that at the time of the quality release or subsequent retest date this product conformed to the information contained in this publication. The current Specification sheet may be available at Sigma-Aldrich.com. For further inquiries, please contact Technical Service. Purchaser must determine the suitability of the product for its particular use. See reverse side of invoice or packing slip for additional terms and conditions of sale.



Certificate of analysis

W3082 Received on 2/26/2026 by IZ

Product No.: A12244
Product: Stearic acid, 98%
Lot No.: U23E020

Appearance White flakes
Assay 98.7 %

This document has been electronically generated and does not require a signature.

Order our products online www.alfa.com

ThermoFisher
SCIENTIFIC



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

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.

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

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.



Sodium Hydroxide (Pellets)

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

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

Pellets

Spec Set: 0583ACS

Internal ID #: 710

Signature	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.

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

Spectrum Chemical Mfg Corp
755 Jersey Avenue
New Brunswick 08901 NJ



Certificate of Analysis Results Approved By:

GHERRERA
Genaro Herrera
22-MAY-24 12:32:01

All pharmaceutical ingredients are tested using current edition of applicable pharmacopeia.

Read and understand label and SDS before handling any chemicals. All Spectrum's chemicals are for manufacturing, processing, repacking or research purposes by experienced personnel only. It is the customer's responsibility to provide adequate hazardous material training and ensure that appropriate Personal Protective Equipment (PPE) is used before handling any chemical.

The Elemental Impurities standards implemented by USP and other Pharmaceutical Compendia reflect a growing understanding of the toxicology of trace levels of elemental impurities that can remain in drug substances originating from either raw materials or manufacturing processes. Identifying and quantifying impurities can be critical to predicting the best possible patient outcomes. Elemental Impurities has been a requirement of all products meeting USP/NF, EP and BP monographs since January 1, 2018. More information can be found in USP sections <232> Elemental Impurities – Limits and <233> Elemental Impurities – Procedures. Data for drug substances furnished by Spectrum Chemical Mfg. Corp can be used to ensure that patient daily exposures by oral administration to the selected elements are not exceeded in the formulation of pharmaceutical products.

W3139 Received on 9/9/24 by IZ

Product No.: A12044
Product: Chloramine-T trihydrate, 98%
Lot No.: 10239484

Appearance:	White powder
Melting Point:	166°C(dec)
Assay (Iodometric titration):	100.5%
Identification (FTIR):	Conforms

Order our products online thermofisher.com/chemicals

This document has been electronically generated and does not require a signature.

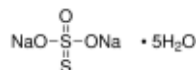
Products are processed under ISO 9001:2015 quality management systems and samples are tested for conformance to the noted specifications. Certain data may have been supplied by third parties. We disclaim the implied warranties of merchantability and fitness for a particular purpose, and the accuracy of third party data or information associated with the product. Products are for research and development use only. Products are not for direct administration to humans or animals. It is the responsibility of the final formulator or end user to determine suitability, and to qualify and/or validate each product for its intended use.

Certificate of Analysis

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.



Chem-Impex International, Inc.

Tel: (630) 766-2112

E-mail: sales@chemimpex.com

Shipping and Correspondence:

935 Dillon Drive

Wood Dale, IL 60191

Fax: (630) 766-2218

Web site: www.chemimpex.com

Manufacturing site:

825 Dillon Drive

Wood Dale, IL 60191

Certificate of Analysis

Catalogue Number	01237
Lot Number	002126-2019-201
Product	Magnesium chloride hexahydrate

Magnesium chloride•6H₂O

CAS Number	7791-18-6
Molecular Formula	MgCl ₂ •6H ₂ O

Molecular Weight	203.3
-------------------------	-------

Appearance	White crystals
Solubility	167 g in 100 mL water
Melting Point	~ 115 °C
Heavy Metals	4.393 ppm
Anion	Nitrate (NO ₃) : < 0.001% Phosphate (PO ₄) : < 5 ppm Sulfate (SO ₄) : < 0.002%
Cation	Ammonium (NH ₄) : < 0.002% Barium (Ba) : 0.005% Calcium (Ca) : 0.01% Iron (Fe) : 4.5 ppm Manganese (Mn) : 0.624 ppm Potassium (K) : 0.004% Sodium (Na) : 0.000003% Strontium (Sr) : 0.005%
Insoluble material	0.0021%
Assay by titration	100.83%
Grade	ACS reagent
Storage	Store at RT

Certificate of Analysis

Catalog Number: 01237

Lot Number: 002126-2019-201

Remarks

See material safety data sheet for additional information
For laboratory use only

The foregoing is a copy of the Certificate of Analysis as provided by our supplier



Bala Kumar
Quality Control Manager

1
2
3
4
5
6
7
8
9
10
11
12
13
14



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

This test report shall not be reproduced, except in full, without the written approval of Ricca Chemical Company.



W3163 Rec. on 12/10/24 by IZ

Certificate of Analysis

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

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.



Material	BDH9266-500G
Material Description	BDH POTASS PHOSPHAT DBSC 500GM
Grade	ACS GRADE
Batch	24H0856239
Reassay Date	04/19/2028
CAS Number	7758-11-4
Molecular Formula	K ₂ HPO ₄
Molecular Mass	174.18
Date of Manufacture	04/19/2024
Storage	Room Temperature

Characteristics	Specifications	Measured Values
Appearance	Fine white crystalline powder	Fine white crystalline powder
Chloride	<= 0.003 %	0.002 %
Heavy Metals (as Pb)	<= 0.0005 %	<0.0005 %
Insolubles	<= 0.01 %	<0.01 %
Iron	<= 0.001 %	<0.001 %
Loss on Drying	<= 1.0 %	<0.5 %
Nitrogen Compounds	<= 0.001 %	<0.001 %
pH (5%, Water) @25C	8.5 - 9.6	8.8
Purity	>= 98.0 %	99.1 %
Sodium	<= 0.05 %	<0.05 %
Sulfate	<= 0.005 %	<0.002 %
CUSTOMER PART # BDH9266-500G		

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.



Material	BDH9260-500G
Material Description	BDH POTASS HYDRGN PHTHLTE 500G
Grade	ACS GRADE
Batch	24H0956262
Reassay Date	04/28/2026
CAS Number	877-24-7
Molecular Formula	HOCC6H4COOK
Molecular Mass	204.22
Date of Manufacture	04/29/2023
Storage	Room Temperature

Characteristics	Specifications	Measured Values
Appearance	White crystals.	White crystals.
Assay (dried basis)	99.95 - 100.05 %	99.98 %
Chlorine Compounds	<= 0.003 %	<0.003 %
Heavy Metals (as Pb)	<= 5 ppm	<5 ppm
Insoluble Matter	<= 0.005 %	0.003 %
Iron	<= 5 ppm	<5 ppm
pH (0.05M, Water) @25C	4.00 - 4.02	4.00
Sodium	<= 0.005 %	<0.005 %
Sulfur Compounds	<= 0.002 %	<0.002 %

Internal ID #: 322

Signature	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

231758 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

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

300 Technology Drive
Christiansburg, VA 24073 USA
inorganicventures.com

P: 800-669-6799/540-585-3030
F: 540-585-3012
info@inorganicventures.com

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).



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





Material	BDH9274-2.5KG
Material Description	BDH SAND STDD OTTAWA W+I 2.5KG
Grade	NOT APPLICABLE
Batch	25A2756718
Reassay Date	12/31/2028
CAS Number	14808-60-7
Molecular Formula	SiO ₂
Molecular Mass	60.09
Date of Manufacture	12/05/2024
Storage	Room Temperature

Characteristics	Specifications	Measured Values
Appearance	Beige granules.	Beige granules.
Moisture	<= 0.1 %	0.1 %
Particle Size 30-40 mesh	>= 80 %	99 %
CUSTOMER PART # BDH9274-2.5KG		

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.



RICCA CHEMICAL COMPANY®

1841 Broad Street
Pocomoke City, MD 21851
<http://www.riccachemical.com>
1-888-GO-RICCA
customerservice@riccachemical.com

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

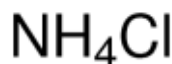
Signature	Additional Information
We certify that this batch conforms to the specifications listed above. This document has been electronically produced and is valid without a signature. Leona Edwardson, Quality Control Sr. Manager - Solon VWR Chemicals, LLC. 28600 Fountain Parkway, Solon OH 44139 USA	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.



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



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

Batch: 24H0956271
 Reassay Date: 05/31/2027
 CAS Number: 7758-99-8
 Molecular Formula: CuSO4.5H2O
 Molecular Mass: 249.68

Date of Manufacture: 05/01/2024
 Storage: 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.

W3201 Received on 4/16/25 by IZ

Certificate of Analysis

Product Name:

Sodium tetraborate decahydrate - ACS reagent, ≥99.5%

Product Number:

S9640

Batch Number:

BCCL9613

Brand:

SIGALD

CAS Number:

1303-96-4

Formula:

B₄Na₂O₇ · 10H₂O

Formula Weight:

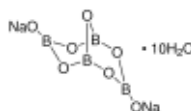
381,37 g/mol

Quality Release Date:

05 JUL 2024

Recommended Retest Date:

MAY 2029



Test	Specification	Result
Appearance (Color)	White	White
Appearance (Form)	Powder or Crystals	Powder
Titration with NaOH	99.5 - 105.0 %	100.7 %
pH	9.15 - 9.20	9.20
0.01 m Solution at 25 Deg C		
Meets ACS Requirements	Corresponds to Requirements	Corresponds
ACS Specifications	Corresponds to Requirements	Corresponds
Insoluble Matter ≤ 0.005% / Heavy		
Metals (As Pb) ≤ 0.001%		
Calcium (Ca)	≤ 50 mg/kg	< 50 mg/kg
Iron (Fe)	≤ 5 mg/kg	< 5 mg/kg
Total Sulfur	≤ 50 mg/kg	< 50 mg/kg
as SO ₄ (ICP)		
Chloride (Cl)	≤ 10 mg/kg	< 10 mg/kg
Phosphate (PO ₄)	≤ 10 mg/kg	< 10 mg/kg

Dr. Reinhold Schwenninger

Quality Assurance

Buchs, Switzerland CH

Sigma-Aldrich warrants, that at the time of the quality release or subsequent retest date this product conformed to the information contained in this publication. The current Specification sheet may be available at Sigma-Aldrich.com. For further inquiries, please contact Technical Service. Purchaser must determine the suitability of the product for its particular use. See reverse side of invoice or packing slip for additional terms and conditions of sale.

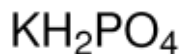


W3202 Received on 4/16/25 by IZ

Certificate of Analysis

Product Name:

Potassium phosphate monobasic - ACS reagent, ≥99.0%



Product Number: P0662
Batch Number: MKCW6723
Brand: SIGALD
CAS Number: 7778-77-0
MDL Number: MFCD00011401
Formula: H₂KO₄P
Formula Weight: 136.09 g/mol
Quality Release Date: 16 OCT 2024
Recommended Retest Date: OCT 2028

Test	Specification	Result
Appearance (Color)	White	White
Appearance (Form)	Powder or Crystals	Crystals
Assay	≥ 99.0 %	99.8 %
Insoluble Matter	≤ 0.01 %	< 0.01 %
Loss on Drying	≤ 0.2 %	< 0.1 %
At 105°C		
pH	4.1 - 4.5	4.5
(c = 5%, 25 deg C)		
Chloride Content	≤ 0.001 %	< 0.001 %
Sulfate (SO ₄)	≤ 0.003 %	< 0.003 %
Heavy Metals	≤ 0.001 %	< 0.001 %
by ICP		
Iron (Fe)	≤ 0.002 %	< 0.001 %
Sodium (Na)	≤ 0.005 %	< 0.001 %
Recommended Retest Period	-----	-----
4 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.

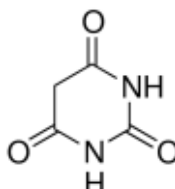


Certificate of Analysis

Product Name:

Barbituric acid - ReagentPlus®, 99%

Product Number: 185698
Batch Number: WXBFB3271V
Brand: SIAL
CAS Number: 67-52-7
Formula: C₄H₄N₂O₃
Formula Weight: 128.09 g/mol
Quality Release Date: 16 MAY 2024



Test	Specification	Result
Appearance (Colour)	White to Off-White	White
Appearance (Form)	Powder	Powder
Infrared spectrum	Conforms to Structure	Conforms
Purity (Titration by NaOH)	98.5 - 101.5 %	100.4 %
GC (area %)	≥ 98 %	100 %
VPCT		



Kang Chen
Quality Manager
Wuxi, China CN

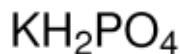
Sigma-Aldrich warrants, that at the time of the quality release or subsequent retest date this product conformed to the information contained in this publication. The current Specification sheet may be available at Sigma-Aldrich.com. For further inquiries, please contact Technical Service. Purchaser 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 Name:

Potassium phosphate monobasic - ACS reagent, ≥99.0%



Product Number: P0662
Batch Number: MKCX1379
Brand: SIGALD
CAS Number: 7778-77-0
MDL Number: MFCD00011401
Formula: H₂KO₄P
Formula Weight: 136.09 g/mol
Quality Release Date: 27 JAN 2025
Recommended Retest Date: JAN 2029

Test	Specification	Result
Appearance (Color)	White	White
Appearance (Form)	Powder or Crystals	Crystals
Assay	≥ 99.0 %	99.9 %
Insoluble Matter	≤ 0.01 %	< 0.01 %
Loss on Drying	≤ 0.2 %	< 0.1 %
At 105°C		
pH	4.1 - 4.5	4.5
(c = 5%, 25 deg C)		
Chloride Content	≤ 0.001 %	< 0.001 %
Sulfate (SO ₄)	≤ 0.003 %	< 0.003 %
Heavy Metals	≤ 0.001 %	< 0.001 %
by ICP		
Iron (Fe)	≤ 0.002 %	< 0.001 %
Sodium (Na)	≤ 0.005 %	< 0.001 %
Recommended Retest Period	-----	-----
4 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

Cyanide Standard, 1000 ppm CN⁻

Lot Number: 1505H73

Product Number: 2543

Manufacture Date: MAY 08, 2025

Expiration Date: NOV 2025

This standard is prepared using accurate volumetric techniques from material that has been assayed against Silver Nitrate solution certified traceable to NIST Standard Reference Material 999. The certified value reported is the prepared value based upon the method of preparation of the material. The uncertainty in the prepared value is the combined uncertainty based on the stability of the assayed Potassium Cyanide, and the uncertainty in the mass and volume measurements.

Use 0.16% (w/v) (0.04 N) Sodium Hydroxide or 0.225 % (w/v) (0.04 N) Potassium Hydroxide to make dilutions of this standard. Restandardize weekly if extreme accuracy is required.

Name	CAS#	Grade
Water	7732-18-5	ACS/ASTM/USP/EP
Potassium Cyanide	151-50-8	ACS
Sodium Hydroxide	1310-73-2	Reagent (from ACS)

Test	Specification	Result
Appearance	Colorless liquid	Passed
Cyanide (CN ⁻)	995-1005 ppm	1000 ppm

Specification	Reference
Stock Standard Cyanide Solution	APHA (4500-CN- F)
Stock Cyanide Solution	APHA (4500-CN- E)
Stock Cyanide Solution	APHA (4500-CN- K)
Stock Cyanide Solution	APHA (4500-CN- H)
Cyanide Reference Solution (1000 mg/L)	EPA (SW-846) (7.3.3.2)
Cyanide Calibration Stock Solution (1,000 mg/L CN ⁻)	EPA (SW-846) (9213)
Stock Cyanide Solution	EPA (335.3)
Stock Cyanide Solution	EPA (335.2)
Cyanide Solution Stock	ASTM (D 4282)
Simple Cyanide Solution, Stock (1.0 g/L CN ⁻)	ASTM (D 4374)

Volumetric glassware complies with Class A tolerance requirements of ASTM E 288 and NIST Circular 434; it is calibrated before first use and recalibrated regularly in accordance with ASTM E 542 and NIST Procedure NBSIR 74-461. Balances are calibrated regularly with weights certified traceable to the NIST national mass standard. Thermometers and temperature probes are calibrated before first use and recalibrated regularly with a thermometer traceable to NIST standards. All products are prepared according to master documents that assure manufacture according to validated methods. Batch records document raw material traceability and production and testing history for each lot manufactured.

Part Number	Size / Package Type	Shelf Life (Unopened Container)
2543-16	500 mL amber poly	6 months
2543-32	1 L amber poly	6 months
2543-4	120 mL amber poly	6 months

Recommended Storage: 2°C - 8°C (36°F - 46°F)

[Handwritten signature]

Ernest Mahan (05/08/2025)

Plant Manager

This test report shall not be reproduced, except in full, without the written approval of Ricca Chemical Company.

Certificate of Analysis

Buffer, Reference Standard, pH 7.00 ± 0.01 at 25°C (Color Coded Yellow)

Lot Number: 2504D34

Product Number: 1551

Manufacture Date: APR 03, 2025

Expiration Date: MAR 2027

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 (from ACS)

Test	Specification	Result
Appearance	Yellow liquid	Passed *Not a certified value.

Test	Certified Value	Uncertainty	NIST SRM#
pH at 25°C (Method: SQCP027, SQCP033)	7.003	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 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)
1551-2.5	10 L Cubitainer®	24 months
1551-20	20 x 20 mL pack	24 months
1551-32	1 L natural poly	24 months
1551-5	20 L Cubitainer®	24 months

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



Jose Pena (04/03/2025)
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.

Certificate Of Analysis



Date of Release: 4/8/2025

Name: **Potassium Hydrogen Phthalate**

ACS

Item No: **PX1476 All Sizes**

Lot / Batch No: **2025040493**

Country of Origin: **USA**

Item	Specifications	Analysis
Assay (Dried Basis)	99.95-100.05%	99.98%
Chlorine compounds (as Cl)	0.003% max.	<0.003%
Color	White	Passes Test
Form	Crystals	Passes Test
Heavy metals (by ICP-OES)	5 ppm max.	<5 ppm
Insoluble Matter	0.005% max.	<0.005%
Iron (Fe)	5 ppm max.	<5 ppm
pH of a 0.05m solution @ 25.0C	4.00-4.02	4.00
Sodium (Na)	0.005% max.	<0.005%
Sulfur compounds (as S)	0.002% max.	<0.002%

Joe Schoellkopf

Quality Control Manager

This document has been produced electronically and is valid without a signature.

EMD Millipore is a division of Merck KGaA, Darmstadt, Germany

EMD Millipore Corporation

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

Form number: 00005624CA, Rev. 2.0

Certificate of Analysis

Sodium Hypochlorite Solution, 5% available Chlorine

Lot Number: 2506M51

Product Number: 7495.5

Manufacture Date: JUN 18, 2025

Expiration Date: DEC 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

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



Jose Pena (06/18/2025)
Operations Manager

This test report shall not be reproduced, except in full, without the written approval of Ricca Chemical Company.

Certificate of Analysis

Cyanide Standard 1000 ppm (1ml = 1mg CN)

Product Code: **LC13545**

Manufacture Date: June 25, 2025

Lot Number: **45060288**

Expiration Date: December 24, 2025

Test	Specification	Result
Appearance (clarity)	clear solution	clear solution
Appearance (color)	colorless	colorless
Concentration (CN)	0.990 - 1.010mg/mL	1.000mg/mL
Concentration (CN)	990 - 1,010ppm	1,000ppm
Traceable to NIST SRM	Report	999b

Intended Use - Product is intended for use in manufacturing procedures and laboratory procedures and protocols.

Storage Information - Unless noted on the product label, store the product under normal lab conditions in its tightly closed, original container. Do not pipet directly from the container or return unused portions to the container.

Instructions for Handling and Use - Please refer to the associated product label and Safety Data Sheet (SDS) for information regarding safety and handling of this product.

Preparation - All products are manufactured and tested according to established, documented procedures and methodology. Production documentation records manufacturing data, raw material traceability and testing history on a per lot basis. Balances, thermometers, and glassware are calibrated before first use and on a regular schedule with references traceable to NIST

The suffix of the product code may differ from what is on your product label. The suffix will designate the size and be associated with a numeric digit(s). Visit LabChem.com for more information

Suffix	1	2	3/3S/36/36S	4/4C	5	6	7	8	9	20	44	200	246	486
Size	500mL org	1L or 1kg	2.5L/2.5L Coated/6x2.5L/6x2.5L Coated	4L	20L	10L	125mL	25g	100g	20x20mL	4x4L	200L	24x6mL	48x6mL



Michael Monteleone
Chemistry Supervisor - Quality Control

ISO9001:2015 Registration #0306-01

n-Hexane 95%
ULTRA RESI-ANALYZED
For Organic Residue Analysis



W3240
JP
Op4tel. 07/15/2025

Material No.: 9262-03
Batch No.: 25C0362006
Manufactured Date: 2025-01-29
Expiration Date: 2026-04-30
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	≤ 5	1
ECD Sensitive Impurities (as HeptachlorEpoxide) Single Peak (pg/mL)	≤ 10	6
ECD-Sensitive Impurities (as EthyleneDibromide) - Single Impurity Peak (ng/mL)	≤ 5	4
Assay (Total Saturated C ₆ Isomers) (by GC, corrected for water)	$\geq 99.5 \%$	100.0 %
Assay (as n-Hexane) (by GC, corrected for water)	$\geq 95 \%$	100 %
Color (APHA)	≤ 10	10
Residue after Evaporation	≤ 1.0 ppm	0.2 ppm
Substances Darkened by H ₂ SO ₄	Passes Test	Passes Test
Water (by KF, coulometric)	$\leq 0.05 \%$	$< 0.01 \%$

For Laboratory, Research, or Manufacturing Use
MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: United States
Packaging Site: Phillipsburg Mfg Ctr & DC

Jamie Croak
Director Quality Operations, Bioscience Production



W3242 Received on 10/3/25 by IZ

Certificate of Analysis

10/06/2025(JST)

TOKYO CHEMICAL INDUSTRY CO.,LTD.
T-PLUS Nihonbashi-Kodemmacho
16-12 Nihonbashi-kodemmacho, Chuo-ku, Tokyo 103-0001, Japa

Chemical Name: p-Xylene		
Product Number: X0014 CAS RN: 106-42-3	Lot: WZWEH	

Tests	Results	Specifications
Appearance	Colorless clear liquid	Colorless to Almost colorless clear liquid
Purity(GC)	99.7 %	min. 99.0 %

TCI Lot numbers are 4-5 characters in length. Characters listed after the first 4-5 characters are control numbers for internal purpose only.

The contents of the specifications are subject to change without advance notice. The specification values displayed here are the most up to date values. There may be cases where the product labels display a different specification, however, the product quality still meets the latest specification.

Customer Service:

TCI AMERICA
Tel: +1-800-423-8616 / +1-503-283-1681
Fax: +1-888-520-1075 / +1-503-283-1987
E-mail: Sales-US@TCIchemicals.com

Takuya Nishioka
Quality Assurance Department Manager

W3243 Received on 10/3/25 by IZ

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:

L-Ascorbic acid - ACS reagent, ≥99%

Product Number:

255564

Batch Number:

MKCX1143

Brand:

SIAL

CAS Number:

50-81-7

MDL Number:

MFCD00064328

Formula:

C₆H₈O₆

Formula Weight:

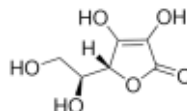
176.12 g/mol

Quality Release Date:

17 JAN 2025

Recommended Retest Date:

JAN 2028



Test	Specification	Result
Appearance (Color)	White	White
Appearance (Form)	Powder or Crystals or Granules or Chunks	Powder
Infrared Spectrum	Conforms to Structure	Conforms
Optical Rotation (+); c = 10%; Water	20.5 - 21.5 deg	21.0 deg
Titration by Iodine	≥ 99.0 %	100.0 %
Residue on Ignition	≤ 0.10 %	0.02 %
Iron (Fe)	≤ 0.001 %	< 0.001 %
Heavy Metals by ICP-OES	≤ 0.002 %	0.001 %
Recommended Retest Period 3 Years	-----	-----
Meets ACS Requirements	Current ACS Specification	Conforms

Larry Coers, Director
Quality Control
Milwaukee, WI US

Sigma-Aldrich warrants, that at the time of the quality release or subsequent retest date this product conformed to the information contained in this publication. The current Specification sheet may be available at Sigma-Aldrich.com. For further inquiries, please contact Technical Service. Purchaser must determine the suitability of the product for its particular use. See reverse side of invoice or packing slip for additional terms and conditions of sale.



PERCENT SOLID

Supervisor: Iwona
Analyst: jignesh
Date: 10/30/2025

OVENTEMP IN Celsius(°C): 107
Time IN: 17:15
In Date: 10/29/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 104
Time OUT: 08:20
Out Date: 10/30/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLID-OVEN

QC:LB137700

Lab ID	Client SampleID	Dish #	Dish Wt (g) (A)	Sample Wt (g)	Dish + Sample Wt (g) (B)	Dish+Dry Sample Wt (g) (C)	% Solid	Comments
Q3368-13	OUTSIDE-DUMPSTER	1	1.12	10.63	11.75	8.28	67.4	
Q3368-14	PRESS-SLUDGE	2	1.18	10.30	11.48	7.89	65.1	
Q3482-01	WC-1	37	1.00	1.00	2.00	2.00	100.0	Concrete sample
Q3482-02	WC-2	38	1.00	1.00	2.00	2.00	100.0	Concrete sample
Q3482-03	WC-3	39	1.00	1.00	2.00	2.00	100.0	Concrete sample
Q3482-04	WC-4	40	1.00	1.00	2.00	2.00	100.0	Concrete sample
Q3482-05	WC-5	41	1.00	1.00	2.00	2.00	100.0	Concrete sample
Q3482-06	WC-6	42	1.00	1.00	2.00	2.00	100.0	Concrete sample
Q3482-07	WC-7	43	1.00	1.00	2.00	2.00	100.0	Concrete sample
Q3483-01	HW1025-PT-AN-SOIL	3	1.00	1.00	2.00	2.00	100.0	
Q3483-02	HW1025-PT-CORR-SOIL	4	1.00	1.00	2.00	2.00	100.0	
Q3483-03	HW1025-PT-CN-SOIL	5	1.00	1.00	2.00	2.00	100.0	
Q3483-04	HW1025-PT-CN-SOIL	6	1.00	1.00	2.00	2.00	100.0	
Q3483-05	HW1025-PT-FP-SOIL	7	1.00	1.00	2.00	2.00	100.0	
Q3483-06	HW1025-PT-CR6-SOIL	8	1.00	1.00	2.00	2.00	100.0	
Q3483-07	HW1025-PT-NUT-SOIL	9	1.00	1.00	2.00	2.00	100.0	
Q3483-08	HW1025-PT-NUT-SOIL	10	1.00	1.00	2.00	2.00	100.0	
Q3483-09	HW1025-PT-OGF-SOIL	11	1.00	1.00	2.00	2.00	100.0	
Q3483-10	HW1025-PT-MET-SOIL	12	1.00	1.00	2.00	2.00	100.0	
Q3483-11	HW1025-PT-BNA-SOIL	13	1.00	1.00	2.00	2.00	100.0	
Q3483-12	HW1025-PT-TRIAZINE-SOIL	14	1.00	1.00	2.00	2.00	100.0	
Q3483-13	HW1025-PT-PAH-SOIL	15	1.00	1.00	2.00	2.00	100.0	
Q3483-14	HW1025-PT-DIES-SOIL	16	1.00	1.00	2.00	2.00	100.0	
Q3483-15	HW1025-PT-GAS-SOIL	17	1.00	1.00	2.00	2.00	100.0	
Q3483-16	HW1025-PT-NJEPH-SOIL	18	1.00	1.00	2.00	2.00	100.0	
Q3483-17	HW1025-PT-HERB-SOIL	19	1.00	1.00	2.00	2.00	100.0	
Q3483-18	HW1025-PT-PCB-SOIL	20	1.00	1.00	2.00	2.00	100.0	
Q3483-19	HW1025-PT-PCBO-SOIL	21	1.00	1.00	2.00	2.00	100.0	

PERCENT SOLID

Supervisor: Iwona
Analyst: jignesh
Date: 10/30/2025

OVENTEMP IN Celsius(°C): 107
Time IN: 17:15
In Date: 10/29/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 104
Time OUT: 08:20
Out Date: 10/30/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLID-OVEN

QC:LB137700

Lab ID	Client SampleID	Dish #	Dish Wt (g) (A)	Sample Wt (g)	Dish + Sample Wt (g) (B)	Dish+Dry Sample Wt (g) (C)	% Solid	Comments
Q3483-20	HW1025-PT-PEST-SOIL	22	1.00	1.00	2.00	2.00	100.0	
Q3483-21	HW1025-PT-CHLOR-SOIL	23	1.00	1.00	2.00	2.00	100.0	
Q3483-22	HW1025-PT-TXP-SOIL	24	1.00	1.00	2.00	2.00	100.0	
Q3483-23	HW1025-PT-VOA-SOIL	25	1.00	1.00	2.00	2.00	100.0	
Q3483-25	HW1025-PT-NO2-SOIL	26	1.00	1.00	2.00	2.00	100.0	
Q3485-01	TR-04-102924	27	1.15	10.30	11.45	10.84	94.1	
Q3485-02	TR-04-102924-E2	28	1.19	10.30	11.49	10.77	93.0	
Q3486-01	TP3	29	1.17	10.45	11.62	11.07	94.7	
Q3486-02	TP3-E2	30	1.18	10.40	11.58	11.11	95.5	
Q3486-03	TP4	31	1.19	10.23	11.42	9.93	85.4	
Q3486-04	TP4-E2	32	1.17	10.52	11.69	10.09	84.8	
Q3486-05	TP5	33	1.17	10.65	11.82	10.02	83.1	
Q3486-06	TP5-E2	34	1.17	10.15	11.32	9.39	81.0	
Q3486-07	TP6	35	1.13	10.25	11.38	10.16	88.1	
Q3486-08	TP6-E2	36	1.16	10.48	11.64	10.32	87.4	

$$\% \text{ Solid} = \frac{(C-A) * 100}{(B-A)}$$

WORKLIST(Hardcopy Internal Chain)

b 137100

WorkList Name : %1-102925 WorkList ID : 192745 Department : Wet-Chemistry Date : 10-29-2025 07:47:12

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q3368-13	OUTSIDE-DUMPSTER	Solid	Percent Solids	Cool 4 deg C	ARAM01	D41	10/16/2025	Chemtech -SO
Q3368-14	PRESS-SLUDGE	Solid	Percent Solids	Cool 4 deg C	ARAM01	D41	10/16/2025	Chemtech -SO
Q3482-01	WC-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	10/24/2025	Chemtech -SO
Q3482-02	WC-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	10/24/2025	Chemtech -SO
Q3482-03	WC-3	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	10/24/2025	Chemtech -SO
Q3482-04	WC-4	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	10/24/2025	Chemtech -SO
Q3482-05	WC-5	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	10/24/2025	Chemtech -SO
Q3482-06	WC-6	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	10/24/2025	Chemtech -SO
Q3482-07	WC-7	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	10/24/2025	Chemtech -SO
Q3483-01	HW1025-PT-AN-SOIL	Solid	Percent Solids	Cool 4 deg C	ALLI03	QA Of	10/27/2025	Chemtech -SO
Q3483-02	HW1025-PT-CORR-SOIL	Solid	Percent Solids	Cool 4 deg C	ALLI03	QA Of	10/27/2025	Chemtech -SO
Q3483-03	HW1025-PT-CN-SOIL	Solid	Percent Solids	Cool 4 deg C	ALLI03	QA Of	10/27/2025	Chemtech -SO
Q3483-04	HW1025-PT-CN-SOIL	Solid	Percent Solids	Cool 4 deg C	ALLI03	QA Of	10/27/2025	Chemtech -SO
Q3483-05	HW1025-PT-FP-SOIL	Solid	Percent Solids	Cool 4 deg C	ALLI03	QA Of	10/27/2025	Chemtech -SO
Q3483-06	HW1025-PT-CR6-SOIL	Solid	Percent Solids	Cool 4 deg C	ALLI03	QA Of	10/27/2025	Chemtech -SO
Q3483-07	HW1025-PT-NUT-SOIL	Solid	Percent Solids	Cool 4 deg C	ALLI03	QA Of	10/27/2025	Chemtech -SO
Q3483-08	HW1025-PT-NUT-SOIL	Solid	Percent Solids	Cool 4 deg C	ALLI03	QA Of	10/27/2025	Chemtech -SO
Q3483-09	HW1025-PT-OGR-SOIL	Solid	Percent Solids	Cool 4 deg C	ALLI03	QA Of	10/27/2025	Chemtech -SO
Q3483-10	HW1025-PT-MET-SOIL	Solid	Percent Solids	Cool 4 deg C	ALLI03	QA Of	10/27/2025	Chemtech -SO
Q3483-11	HW1025-PT-BNA-SOIL	Solid	Percent Solids	Cool 4 deg C	ALLI03	QA Of	10/27/2025	Chemtech -SO
Q3483-12	HW1025-PT-TRIAZINE-SOIL	Solid	Percent Solids	Cool 4 deg C	ALLI03	QA Of	10/27/2025	Chemtech -SO

Date/Time 10/29/25 15:00
Raw Sample Received by: SSWC
Raw Sample Relinquished by: ALSON

Date/Time 10/29/25 17:30
Raw Sample Received by: ALSON
Raw Sample Relinquished by: SSWC

WORKLIST(Hardcopy Internal Chain)

8137700

WorkList Name : %1-102925

WorkList ID : 192745

Department : Wet-Chemistry

Date : 10-29-2025 07:47:12

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q3483-13	HW1025-PT-PAH-SOIL	Solid	Percent Solids	Cool 4 deg C	ALLI03	QA Of	10/27/2025	Chemtech -SO
Q3483-14	HW1025-PT-DIES-SOIL	Solid	Percent Solids	Cool 4 deg C	ALLI03	QA Of	10/27/2025	Chemtech -SO
Q3483-15	HW1025-PT-GAS-SOIL	Solid	Percent Solids	Cool 4 deg C	ALLI03	QA Of	10/27/2025	Chemtech -SO
Q3483-16	HW1025-PT-NJEPH-SOIL	Solid	Percent Solids	Cool 4 deg C	ALLI03	QA Of	10/27/2025	Chemtech -SO
Q3483-17	HW1025-PT-HERB-SOIL	Solid	Percent Solids	Cool 4 deg C	ALLI03	QA Of	10/27/2025	Chemtech -SO
Q3483-18	HW1025-PT-PCB-SOIL	Solid	Percent Solids	Cool 4 deg C	ALLI03	QA Of	10/27/2025	Chemtech -SO
Q3483-19	HW1025-PT-PCBO-SOIL	Solid	Percent Solids	Cool 4 deg C	ALLI03	QA Of	10/27/2025	Chemtech -SO
Q3483-20	HW1025-PT-PEST-SOIL	Solid	Percent Solids	Cool 4 deg C	ALLI03	QA Of	10/27/2025	Chemtech -SO
Q3483-21	HW1025-PT-CHLOR-SOIL	Solid	Percent Solids	Cool 4 deg C	ALLI03	QA Of	10/27/2025	Chemtech -SO
Q3483-22	HW1025-PT-TXP-SOIL	Solid	Percent Solids	Cool 4 deg C	ALLI03	QA Of	10/27/2025	Chemtech -SO
Q3483-23	HW1025-PT-VOA-SOIL	Solid	Percent Solids	Cool 4 deg C	ALLI03	QA Of	10/27/2025	Chemtech -SO
Q3483-25	HW1025-PT-NO2-SOIL	Solid	Percent Solids	Cool 4 deg C	ALLI03	QA Of	10/27/2025	Chemtech -SO
Q3485-01	TR-04-102924	Solid	Percent Solids	Cool 4 deg C	PSEG05	D41	10/29/2025	Chemtech -SO
Q3485-02	TR-04-102924-E2	Solid	Percent Solids	Cool 4 deg C	PSEG05	D41	10/29/2025	Chemtech -SO
Q3486-01	TP3	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	10/29/2025	Chemtech -SO
Q3486-02	TP3-E2	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	10/29/2025	Chemtech -SO
Q3486-03	TP4	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	10/29/2025	Chemtech -SO
Q3486-04	TP4-E2	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	10/29/2025	Chemtech -SO
Q3486-05	TP5	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	10/29/2025	Chemtech -SO
Q3486-06	TP5-E2	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	10/29/2025	Chemtech -SO
Q3486-07	TP6	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	10/29/2025	Chemtech -SO

Date/Time

10/29/25 13:00

Raw Sample Received by:

SB WVC

Raw Sample Relinquished by:

CH(SM)

Date/Time

10/29/25

Raw Sample Received by:

CH(SM)

Raw Sample Relinquished by:

SB COC

WORKLIST(Hardcopy Internal Chain)

10/29/25

WorkList Name : %1-102925

WorkList ID : 192745

Department : Wet-Chemistry

Date : 10-29-2025 07:47:12

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q3486-08	TP6-E2	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	10/29/2025	Chemtech -SO

10/29/25 15:00

Date/Time

Raw Sample Received by: SA WWC

Raw Sample Relinquished by: Cpl Sm

Date/Time

Raw Sample Received by: Cpl Sm

Raw Sample Relinquished by: SA ADC

PERCENT SOLID

Supervisor: Iwona
Analyst: jignesh
Date: 10/31/2025

OVENTEMP IN Celsius(°C): 107
Time IN: 17:15
In Date: 10/30/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 104
Time OUT: 08:20
Out Date: 10/31/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLID-OVEN

QC:LB137714

Lab ID	Client SampleID	Dish #	Dish Wt(g) (A)	Sample Wt(g)	Dish + Sample Wt(g) (B)	Dish+Dry Sample Wt(g) (C)	% Solid	Comments
Q3483-24	HW1025-PT-SOL-SOIL	1	1.16	10.70	11.86	9.24	75.5	
Q3487-01	KZZ294Z-A	2	1.00	1.00	2.00	2.00	100.0	PILC
Q3487-02	KZZ294Z-B	3	1.00	1.00	2.00	2.00	100.0	PILC
Q3487-03	KZZ256R-A	4	1.00	1.00	2.00	2.00	100.0	PILC
Q3487-04	KZZ256R-B	5	1.00	1.00	2.00	2.00	100.0	PILC
Q3487-05	JEH623H-A	6	1.00	1.00	2.00	2.00	100.0	PILC
Q3487-06	JEH623H-B	7	1.00	1.00	2.00	2.00	100.0	PILC
Q3487-07	M3-A	8	1.00	1.00	2.00	2.00	100.0	PILC
Q3487-08	M3-B	9	1.00	1.00	2.00	2.00	100.0	PILC
Q3488-01	MOO-25-0294-0298	10	1.00	1.00	2.00	2.00	100.0	Concrete sample
Q3488-02	MOO-25-0299	11	1.15	10.33	11.48	10.88	94.2	
Q3488-04	MOO-25-0302-0310	12	1.18	10.45	11.63	10.08	85.2	
Q3488-05	MOO-25-0302-0310	13	1.15	10.46	11.61	10.7	91.3	
Q3488-06	MOO-25-0311-0313	46	1.15	10.37	11.52	10.64	91.5	
Q3489-01	245F72-A	14	1.00	1.00	2.00	2.00	100.0	PILC
Q3489-02	245F72-B	15	1.00	1.00	2.00	2.00	100.0	PILC
Q3489-03	L54-A	16	1.00	1.00	2.00	2.00	100.0	PILC
Q3489-04	L54-B	17	1.00	1.00	2.00	2.00	100.0	PILC
Q3489-05	L55-A	18	1.00	1.00	2.00	2.00	100.0	PILC
Q3489-06	L55-A	19	1.00	1.00	2.00	2.00	100.0	PILC
Q3489-07	L56-A	20	1.00	1.00	2.00	2.00	100.0	PILC
Q3489-08	L56-B	21	1.00	1.00	2.00	2.00	100.0	PILC
Q3489-09	L57-A	22	1.00	1.00	2.00	2.00	100.0	PILC
Q3489-10	L57-B	23	1.00	1.00	2.00	2.00	100.0	PILC
Q3489-11	L58-A	24	1.00	1.00	2.00	2.00	100.0	PILC
Q3489-12	L58-2	25	1.00	1.00	2.00	2.00	100.0	PILC
Q3489-13	L59-A	26	1.00	1.00	2.00	2.00	100.0	PILC
Q3489-14	L59-B	27	1.00	1.00	2.00	2.00	100.0	PILC

PERCENT SOLID

Supervisor: Iwona
Analyst: jignesh
Date: 10/31/2025

OVENTEMP IN Celsius(°C): 107
Time IN: 17:15
In Date: 10/30/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 104
Time OUT: 08:20
Out Date: 10/31/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLID-OVEN

QC:LB137714

Lab ID	Client SampleID	Dish #	Dish Wt(g) (A)	Sample Wt(g)	Dish + Sample Wt(g) (B)	Dish+Dry Sample Wt(g) (C)	% Solid	Comments
Q3489-15	L60-A	28	1.00	1.00	2.00	2.00	100.0	PILC
Q3489-16	L60-B	29	1.00	1.00	2.00	2.00	100.0	PILC
Q3489-17	L61-A	30	1.00	1.00	2.00	2.00	100.0	PILC
Q3489-18	L61-B	31	1.00	1.00	2.00	2.00	100.0	PILC
Q3489-19	L62-A	32	1.00	1.00	2.00	2.00	100.0	PILC
Q3489-20	L62-B	33	1.00	1.00	2.00	2.00	100.0	PILC
Q3489-21	L63-A	34	1.00	1.00	2.00	2.00	100.0	PILC
Q3489-22	L63-B	35	1.00	1.00	2.00	2.00	100.0	PILC
Q3489-23	L64-A	36	1.00	1.00	2.00	2.00	100.0	PILC
Q3489-24	L64-B	37	1.00	1.00	2.00	2.00	100.0	PILC
Q3489-25	L65-A	38	1.00	1.00	2.00	2.00	100.0	PILC
Q3489-26	L65-B	39	1.00	1.00	2.00	2.00	100.0	PILC
Q3489-27	STC21-A	40	1.00	1.00	2.00	2.00	100.0	PILC
Q3489-28	STC21-B	41	1.00	1.00	2.00	2.00	100.0	PILC
Q3489-29	STF24-A	42	1.00	1.00	2.00	2.00	100.0	PILC
Q3489-30	STF24-B	43	1.00	1.00	2.00	2.00	100.0	PILC
Q3490-01	LAW-25-0151	44	1.00	1.00	2.00	2.00	100.0	oily-debris
Q3491-01	SOIL-CUTTINGS-COMP	45	1.18	10.80	11.98	9.13	73.6	
Q3495-01	SB-1025-1	47	1.19	10.24	11.43	8.99	76.2	
Q3495-02	SB-1025-2	48	1.14	10.43	11.57	8.97	75.1	
Q3496-01	DRILL-CUTTINGS	49	1.19	10.61	11.8	10.33	86.1	
Q3496-02	DRILL-CUTTINGS-E2	50	1.13	10.49	11.62	10.11	85.6	
Q3497-01	OK-01-103025	51	1.13	10.93	12.06	10.37	84.5	
Q3497-02	OK-01-103025-E2	52	1.19	10.59	11.78	10.25	85.6	

$$\% \text{ Solid} = \frac{(C-A) * 100}{(B-A)}$$

WORKLIST(Hardcopy Internal Chain)

W 13 f 7 h

WorkList Name : %1-103025 WorkList ID : 192793 Department : Wet-Chemistry Date : 10-30-2025 10:50:32

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q3483-24	HW1025-PT-SOL-SOIL	Solid	Percent Solids	Cool 4 deg C	ALLI03	QA Of	10/27/2025	Chemtech -SO
Q3487-01	KZZ294Z-A	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	10/29/2025	Chemtech -SO
Q3487-02	KZZ294Z-B	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	10/29/2025	Chemtech -SO
Q3487-03	KZZ256R-A	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	10/29/2025	Chemtech -SO
Q3487-04	KZZ256R-B	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	10/29/2025	Chemtech -SO
Q3487-05	JEH623H-A	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	10/29/2025	Chemtech -SO
Q3487-06	JEH623H-B	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	10/29/2025	Chemtech -SO
Q3487-07	M3-A	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	10/29/2025	Chemtech -SO
Q3487-08	M3-B	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	10/29/2025	Chemtech -SO
Q3488-01	MOO-25-0294-0298	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	10/29/2025	Chemtech -SO
Q3488-02	MOO-25-0299	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	10/29/2025	Chemtech -SO
Q3488-04	MOO-25-0302-0310	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	10/29/2025	Chemtech -SO
Q3488-05	MOO-25-0302-0310	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	10/29/2025	Chemtech -SO
Q3488-06	MOO-25-0311-0313	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	10/29/2025	Chemtech -SO
Q3489-01	245F72-A	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	10/29/2025	Chemtech -SO
Q3489-02	245F72-B	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	10/29/2025	Chemtech -SO
Q3489-03	L54-A	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	10/29/2025	Chemtech -SO
Q3489-04	L54-B	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	10/29/2025	Chemtech -SO
Q3489-05	L55-A	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	10/29/2025	Chemtech -SO
Q3489-06	L55-A	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	10/29/2025	Chemtech -SO
Q3489-07	L56-A	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	10/29/2025	Chemtech -SO

Date/Time 10/30/25 15:00
Raw Sample Received by: JG (wvc)
Raw Sample Relinquished by: RS c (1711-126)

Date/Time 10/30/25 17:30
Raw Sample Received by: RS-1151-126
Raw Sample Relinquished by: JG (wvc)

WORKLIST(Hardcopy Internal Chain)

WB 137714

WorkList Name : %1-103025 WorkList ID : 192793 Department : Wet-Chemistry Date : 10-30-2025 10:50:32

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q3489-08	L56-B	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	10/29/2025	Chemtech -SO
Q3489-09	L57-A	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	10/29/2025	Chemtech -SO
Q3489-10	L57-B	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	10/29/2025	Chemtech -SO
Q3489-11	L58-A	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	10/29/2025	Chemtech -SO
Q3489-12	L58-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	10/29/2025	Chemtech -SO
Q3489-13	L59-A	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	10/29/2025	Chemtech -SO
Q3489-14	L59-B	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	10/29/2025	Chemtech -SO
Q3489-15	L60-A	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	10/29/2025	Chemtech -SO
Q3489-16	L60-B	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	10/29/2025	Chemtech -SO
Q3489-17	L61-A	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	10/29/2025	Chemtech -SO
Q3489-18	L61-B	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	10/29/2025	Chemtech -SO
Q3489-19	L62-A	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	10/29/2025	Chemtech -SO
Q3489-20	L62-B	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	10/29/2025	Chemtech -SO
Q3489-21	L63-A	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	10/29/2025	Chemtech -SO
Q3489-22	L63-B	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	10/29/2025	Chemtech -SO
Q3489-23	L64-A	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	10/29/2025	Chemtech -SO
Q3489-24	L64-B	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	10/29/2025	Chemtech -SO
Q3489-25	L65-A	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	10/29/2025	Chemtech -SO
Q3489-26	L65-B	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	10/29/2025	Chemtech -SO
Q3489-27	STC21-A	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	10/29/2025	Chemtech -SO
Q3489-28	STC21-B	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	10/29/2025	Chemtech -SO

Date/Time 10/30/25 15:30

17:30

Raw Sample Received by: sg wwc

Raw Sample Received by: R3 C EIT-1266

Raw Sample Relinquished by: R3 C EIT-1266

Raw Sample Relinquished by: sg wwc

WORKLIST(Hardcopy Internal Chain)

UB 13FF14

WorkList Name : %1-103025 WorkList ID : 192793 Department : Wet-Chemistry Date : 10-30-2025 10:50:32

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q3489-29	STF24-A	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	10/29/2025	Chemtech -SO
Q3489-30	STF24-B	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	10/29/2025	Chemtech -SO
Q3490-01	LAW-25-0151	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	10/29/2025	Chemtech -SO
Q3491-01	SOIL-CUTTINGS-COMP	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	10/29/2025	Chemtech -SO
Q3495-01	SB-1025-1	Solid	Percent Solids	Cool 4 deg C	REMI02	D51	10/27/2025	Chemtech -SO
Q3495-02	SB-1025-2	Solid	Percent Solids	Cool 4 deg C	REMI02	D51	10/27/2025	Chemtech -SO
Q3496-01	DRILL-CUTTINGS	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	10/30/2025	Chemtech -SO
Q3496-02	DRILL-CUTTINGS-E2	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	10/30/2025	Chemtech -SO
Q3497-01	OK-01-103025	Solid	Percent Solids	Cool 4 deg C	PSEG05	D41	10/30/2025	Chemtech -SO
Q3497-02	OK-01-103025-E2	Solid	Percent Solids	Cool 4 deg C	PSEG05	D41	10/30/2025	Chemtech -SO

Date/Time 10/30/25 15:00
Raw Sample Received by: SB WWC
Raw Sample Relinquished by: RS C (EIT-1066)

Date/Time 10/30/25 17:30
Raw Sample Received by: RS C (EIT-1066)
Raw Sample Relinquished by: SB WWC



SHIPPING DOCUMENTS

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

6390 Joyce Dr., #100
Golden, CO 80403

Tel: +1-303-940-0033
Fax: +1-303-940-0043
info@phenova.com
www.phenova.com

For terms and conditions of your order, please visit:
www.phenova.com/home/termsandsale

Packing List

Date	Order #
10/27/2025	333294



Ship To

Alliance Tech Group - Newark
ATTN: Sohil Jodhani
284 Sheffield St., #1
Mountainside, NJ 07092
USA

Received by: SJ
10/29/2025 12:30

Customer PO #	Terms	PT Acct #	Customer #	Ship Via	F.O.B.
PO2-3469	Net 30	ZCM-100	1500470	FedEx 2nd Day	Golden, CO

Qty Ordered	Qty Shipped	Qty Backorder	Part Number	Part Description	Study Number	Lot Number
1	1	0	PT-MET-SOIL	SOIL/HW Trace Metals	HW1025	7102-04B
1	1	0	PT-CR6-SOIL	SOIL/HW Hexavalent Chromium	HW1025	7102-05A2
1	1	0	PT-CN-SOIL	SOIL/HW Cyanide	HW1025	7102-06
1	1	0	PT-CORR-SOIL	SOIL/HW Corrosivity/pH	HW1025	7102-11
1	1	0	PT-FP-SOIL	SOIL/HW Flash Point	HW1025	7102-10
1	1	0	PT-AN-SOIL	SOIL/HW Anions	HW1025	7102-08
1	1	0	PT-NUT-SOIL	SOIL/HW Nutrients	HW1025	7102-09
1	1	0	PT-SOL-SOIL	SOIL/HW Solids	HW1025	7102-31
1	1	0	PT-NO2-SOIL	SOIL/HW Nitrite as N	HW1025	7102-71
1	1	0	PT-GAS-SOIL	SOIL/HW Gasoline	HW1025	7102-96
1	1	0	PT-DIES-SOIL	SOIL/HW Diesel in Soil	HW1025	7102-100
1	1	0	PT-OGR-SOIL	SOIL/HW Oil and Grease	HW1025	7102-94B
1	1	0	PT-VOA-SOIL	SOIL/HW Volatiles	HW1025	7102-12
1	1	0	PT-BNA-SOIL	SOIL/HW BNAs	HW1025	7102-13
1	1	0	PT-PEST-SOIL	SOIL/HW Pesticides	HW1025	7102-14
1	1	0	PT-CHLR-SOIL	SOIL/HW Chlordane	HW1025	7102-15
1	1	0	PT-TXP-SOIL	SOIL/HW Toxaphene	HW1025	7102-16
1	1	0	PT-PCB-SOIL	SOIL/HW PCBs	HW1025	7102-17
1	1	0	PT-PCBO-SOIL	SOIL/HW PCBs in Oil	HW1025	7102-88
1	1	0	PT-HERB-SOIL	SOIL/HW Herbicides	HW1025	7102-18
1	1	0	PT-PAH-SOIL	SOIL/HW PAHs	HW1025	7102-22
1	1	0	PT-TRIAZINE-SOIL	SOIL/HW Triazine Pesticides	HW1025	7102-106

6390 Joyce Dr., #100
Golden, CO 80403

Tel: +1-303-940-0033
Fax: +1-303-940-0043
info@phenova.com
www.phenova.com

For terms and conditions of your order, please visit:
www.phenova.com/home/termsandsale

Packing List

Date	Order #
10/27/2025	333294



Ship To

Alliance Tech Group - Newark
ATTN: Sohil Jodhani
284 Sheffield St., #1
Mountainside, NJ 07092
USA

Received by: SJ
10/29/2025 12:30

Customer PO #		Terms	PT Acct #	Customer #	Ship Via	F.O.B.
PO2-3469		Net 30	ZCM-100	1500470	FedEx 2nd Day	Golden, CO
Qty Ordered	Qty Shipped	Qty Backorder	Part Number	Part Description	Study Number	Lot Number
1	1	0	PT-NJEPH-SOIL	NJ EPH in SOIL	HW1025	7102-105

Laboratory Certification

Certified By	License No.
Connecticut	PH-0830
DOD ELAP (ANAB)	L2219
Maine	2024021
Maryland	296
New Hampshire	255425
New Jersey	20012
New York	11376
Pennsylvania	68-00548
Soil Permit	525-24-234-08441
Texas	TX-C25-00189
Virginia	460312