

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

LAB CHRONICLE

OrderID:	Q3534	OrderDate:	11/4/2025 1:29:44 PM
Client:	Remington & Vernick Engineers	Project:	Edison Landfill
Contact:	Kyle Carlson	Location:	D31,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q3534-01	MW-6	WATER			11/03/25 10:45			11/04/25
			Anions Group1	300.0			11/04/25 18:03	
			BOD5	SM5210 B			11/05/25 10:10	
			COD	SM5220 D			11/07/25 13:08	
			Cyanide	9012B		11/07/25	11/07/25 15:33	
			Hexavalent Chromium	7196A			11/04/25 16:48	
			Oil and Grease	1664A			11/07/25 10:30	
			pH	9040C			11/05/25 10:25	
			TDS	SM2540 C			11/05/25 11:30	
			TKN	SM4500-N Org C-11 plus NH3 B plus G-11		11/06/25	11/06/25 15:42	
Q3534-01DL	MW-6DL	WATER			11/03/25 10:45			11/04/25
			TKN	SM4500-N Org C-11 plus NH3 B plus G-11		11/06/25	11/06/25 16:25	
Q3534-02	MW-1	WATER			11/03/25 11:50			11/04/25

LAB CHRONICLE

Anions Group1	300.0		11/04/25 18:25
BOD5	SM5210 B		11/05/25 10:10
COD	SM5220 D		11/07/25 13:08
Cyanide	9012B	11/07/25	11/07/25 15:41
Hexavalent Chromium	7196A		11/04/25 16:48
Oil and Grease	1664A		11/07/25 10:30
pH	9040C		11/05/25 10:26
TDS	SM2540 C		11/05/25 11:30
TKN	SM4500-N Org C-11 plus NH3 B plus G-11	11/06/25	11/06/25 15:42

Q3534-03

MW-11

WATER

**11/03/25
12:00**

11/04/25

Anions Group1	300.0		11/04/25 18:46
BOD5	SM5210 B		11/05/25 10:10
COD	SM5220 D		11/07/25 13:09
Cyanide	9012B	11/07/25	11/07/25 15:41
Hexavalent Chromium	7196A		11/04/25 16:49
Oil and Grease	1664A		11/07/25 10:30
pH	9040C		11/05/25 10:33
TDS	SM2540 C		11/05/25 11:30

LAB CHRONICLE

TKN	SM4500-N	11/06/25	11/06/25
	Org C-11 plus		15:42
	NH3 B plus		
	G-11		

Q3534-04	MW-5	WATER	11/04/25 10:20	11/04/25
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Anions Group1	300.0		11/04/25 19:08
BOD5	SM5210 B		11/05/25 10:10
COD	SM5220 D		11/07/25 13:09
Cyanide	9012B	11/07/25	11/07/25 15:41
Hexavalent Chromium	7196A		11/04/25 16:49
Oil and Grease	1664A		11/07/25 10:30
pH	9040C		11/05/25 10:37
TDS	SM2540 C		11/05/25 11:30
TKN	SM4500-N	11/06/25	11/06/25 15:42
	Org C-11 plus		
	NH3 B plus		
	G-11		

Q3534-04DL	MW-5DL	WATER	11/04/25 10:20	11/04/25
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TKN	SM4500-N	11/06/25	11/06/25 16:25
	Org C-11 plus		
	NH3 B plus		
	G-11		

Q3534-05	MW-EB-1	WATER	11/03/25 15:00	11/04/25
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Anions Group1	300.0		11/04/25 19:29
BOD5	SM5210 B		11/05/25 10:10

LAB CHRONICLE

			COD	SM5220 D		11/07/25	
						13:10	
			Cyanide	9012B	11/07/25	11/07/25	
						15:48	
			Hexavalent Chromium	7196A		11/04/25	
						16:50	
			Oil and Grease	1664A		11/07/25	
						10:30	
			pH	9040C		11/05/25	
						10:40	
			TDS	SM2540 C		11/05/25	
						11:30	
			TKN	SM4500-N	11/06/25	11/06/25	
				Org C-11 plus		15:42	
				NH3 B plus			
				G-11			
Q3534-05DL	MW-EB-1DL	WATER			11/03/25		11/04/25
					15:00		
			TKN	SM4500-N	11/06/25	11/06/25	
				Org C-11 plus		16:25	
				NH3 B plus			
				G-11			
Q3534-06	MW-EB-2	WATER			11/04/25		11/04/25
					10:05		
			Anions Group1	300.0		11/04/25	
						19:51	
			BOD5	SM5210 B		11/05/25	
						10:10	
			COD	SM5220 D		11/07/25	
						13:10	
			Cyanide	9012B	11/07/25	11/07/25	
						15:48	
			Hexavalent Chromium	7196A		11/04/25	
						16:50	
			Oil and Grease	1664A		11/07/25	
						10:30	
			pH	9040C		11/05/25	
						10:47	

LAB CHRONICLE

			TDS	SM2540 C		11/05/25	
						11:30	
			TKN	SM4500-N	11/06/25	11/06/25	
				Org C-11 plus		15:42	
				NH3 B plus			
				G-11			
Q3534-07	MW-EB-3	WATER			11/03/25		11/04/25
					14:30		
			Anions Group1	300.0		11/04/25	
						20:12	
			BOD5	SM5210 B		11/05/25	
						10:10	
			COD	SM5220 D		11/07/25	
						13:11	
			Cyanide	9012B	11/07/25	11/07/25	
						15:48	
			Hexavalent Chromium	7196A		11/04/25	
						16:52	
			Oil and Grease	1664A		11/07/25	
						10:30	
			pH	9040C		11/05/25	
						10:50	
			TDS	SM2540 C		11/05/25	
						11:30	
			TKN	SM4500-N	11/06/25	11/06/25	
				Org C-11 plus		15:42	
				NH3 B plus			
				G-11			
Q3534-09	FB-1	WATER			11/04/25		11/04/25
					11:20		
			Cyanide	9012B	11/07/25	11/07/25	
						15:48	
			Hexavalent Chromium	7196A		11/04/25	
						16:54	
			Oil and Grease	1664A		11/07/25	
						10:30	
Q3534-10	EB-1	WATER			11/04/25		11/04/25
					11:20		

LAB CHRONICLE

Cyanide	9012B	11/07/25	11/07/25 15:48
Hexavalent Chromium	7196A		11/05/25 10:07
Oil and Grease	1664A		11/07/25 10:30



SAMPLE DATA

Report of Analysis

Client: Remington & Vernick Engineers
Project: Edison Landfill
Client Sample ID: MW-6
Lab Sample ID: Q3534-01

Date Collected: 11/03/25 10:45
Date Received: 11/04/25
SDG No.: Q3534
Matrix: WATER
% Solid: 0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Nitrite	0.074	U	1	0.074	0.60	mg/L		11/04/25 18:03	300.0
Nitrate	0.095	U	1	0.095	0.50	mg/L		11/04/25 18:03	300.0
Nitrate+Nitrite	0.17	U	1	0.17	1.10	mg/L		11/04/25 18:03	300.0
BOD5	92.0		1	0.20	2.00	mg/L		11/05/25 10:10	SM 5210 B-16
COD	90.6		1	1.50	10.0	mg/L		11/07/25 13:08	SM 5220 D-11
Cyanide	0.047	U	1	0.047	0.25	mg/L	11/07/25 10:15	11/07/25 15:33	9012B
Dissolved Hexavalent Chromium	0.0030	U	1	0.0030	0.010	mg/L		11/04/25 16:48	7196A
Oil and Grease	1.50	J	1	0.29	5.00	mg/L		11/07/25 10:30	1664A
pH	6.20	H	1	0	0	pH		11/05/25 10:25	9040C
TDS	724		1	1.00	10.0	mg/L		11/05/25 11:30	SM 2540 C-20
TKN	34.2	OR	1	0.11	0.50	mg/L	11/06/25 09:10	11/06/25 15:42	SM4500-N Org C-21 plus NH3 B plus G-21

Comments: pH result reported at temperature 20.6 °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: Remington & Vernick Engineers
Project: Edison Landfill
Client Sample ID: MW-6DL
Lab Sample ID: Q3534-01DL

Date Collected: 11/03/25 10:45
Date Received: 11/04/25
SDG No.: Q3534
Matrix: WATER
% Solid: 0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
TKN	58.9	D	10	1.10	5.00	mg/L	11/06/25 09:10	11/06/25 16:25	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: Remington & Vernick Engineers
Project: Edison Landfill
Client Sample ID: MW-1
Lab Sample ID: Q3534-02

Date Collected: 11/03/25 11:50
Date Received: 11/04/25
SDG No.: Q3534
Matrix: WATER
% Solid: 0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Nitrite	0.074	U	1	0.074	0.60	mg/L		11/04/25 18:25	300.0
Nitrate	0.095	U	1	0.095	0.50	mg/L		11/04/25 18:25	300.0
Nitrate+Nitrite	0.17	U	1	0.17	1.10	mg/L		11/04/25 18:25	300.0
BOD5	8.40		1	0.20	2.00	mg/L		11/05/25 10:10	SM 5210 B-16
COD	113		1	1.50	10.0	mg/L		11/07/25 13:08	SM 5220 D-11
Cyanide	0.050	J	1	0.048	0.25	mg/L	11/07/25 10:15	11/07/25 15:41	9012B
Dissolved Hexavalent Chromium	0.0030	U	1	0.0030	0.010	mg/L		11/04/25 16:48	7196A
Oil and Grease	0.29	U	1	0.29	5.00	mg/L		11/07/25 10:30	1664A
pH	6.52	H	1	0	0	pH		11/05/25 10:26	9040C
TDS	10100		1	1.00	10.0	mg/L		11/05/25 11:30	SM 2540 C-20
TKN	3.30		1	0.11	0.50	mg/L	11/06/25 09:10	11/06/25 15:42	SM4500-N Org C-21 plus NH3 B plus G-21

Comments: pH result reported at temperature 20.4 °C

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

D = Dilution

Q = indicates LCS control criteria did not meet requirements

H = Sample Analysis Out Of Hold Time

J = Estimated Value

B = Analyte Found in Associated Method Blank

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

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

OR = Over Range

N =Spiked sample recovery not within control limits

Report of Analysis

Client: Remington & Vernick Engineers
Project: Edison Landfill
Client Sample ID: MW-11
Lab Sample ID: Q3534-03

Date Collected: 11/03/25 12:00
Date Received: 11/04/25
SDG No.: Q3534
Matrix: WATER
% Solid: 0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Nitrite	0.074	U	1	0.074	0.60	mg/L		11/04/25 18:46	300.0
Nitrate	0.095	U	1	0.095	0.50	mg/L		11/04/25 18:46	300.0
Nitrate+Nitrite	0.17	U	1	0.17	1.10	mg/L		11/04/25 18:46	300.0
BOD5	7.06		1	0.20	2.00	mg/L		11/05/25 10:10	SM 5210 B-16
COD	86.6		1	1.50	10.0	mg/L		11/07/25 13:09	SM 5220 D-11
Cyanide	0.046	U	1	0.046	0.24	mg/L	11/07/25 10:15	11/07/25 15:41	9012B
Dissolved Hexavalent Chromium	0.0030	U	1	0.0030	0.010	mg/L		11/04/25 16:49	7196A
Oil and Grease	0.40	J	1	0.29	5.00	mg/L		11/07/25 10:30	1664A
pH	6.64	H	1	0	0	pH		11/05/25 10:33	9040C
TDS	11400		1	1.00	10.0	mg/L		11/05/25 11:30	SM 2540 C-20
TKN	1.20		1	0.11	0.50	mg/L	11/06/25 09:10	11/06/25 15:42	SM4500-N Org C-21 plus NH3 B plus G-21

Comments: pH result reported at temperature 20.5 °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: Remington & Vernick Engineers
Project: Edison Landfill
Client Sample ID: MW-5
Lab Sample ID: Q3534-04

Date Collected: 11/04/25 10:20
Date Received: 11/04/25
SDG No.: Q3534
Matrix: WATER
% Solid: 0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Nitrite	0.074	U	1	0.074	0.60	mg/L		11/04/25 19:08	300.0
Nitrate	0.095	U	1	0.095	0.50	mg/L		11/04/25 19:08	300.0
Nitrate+Nitrite	0.17	U	1	0.17	1.10	mg/L		11/04/25 19:08	300.0
BOD5	57.1		1	0.20	2.00	mg/L		11/05/25 10:10	SM 5210 B-16
COD	71.4		1	1.50	10.0	mg/L		11/07/25 13:09	SM 5220 D-11
Cyanide	0.17	J	1	0.047	0.25	mg/L	11/07/25 10:15	11/07/25 15:41	9012B
Dissolved Hexavalent Chromium	0.0030	U	1	0.0030	0.010	mg/L		11/04/25 16:49	7196A
Oil and Grease	0.30	J	1	0.29	5.00	mg/L		11/07/25 10:30	1664A
pH	6.56	H	1	0	0	pH		11/05/25 10:37	9040C
TDS	1160		1	1.00	10.0	mg/L		11/05/25 11:30	SM 2540 C-20
TKN	10.9	OR	1	0.11	0.50	mg/L	11/06/25 09:10	11/06/25 15:42	SM4500-N Org C-21 plus NH3 B plus G-21

Comments: pH result reported at temperature 20.9 °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: Remington & Vernick Engineers
Project: Edison Landfill
Client Sample ID: MW-5DL
Lab Sample ID: Q3534-04DL

Date Collected: 11/04/25 10:20
Date Received: 11/04/25
SDG No.: Q3534
Matrix: WATER
% Solid: 0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
TKN	28.2	D	5	0.55	2.50	mg/L	11/06/25 09:10	11/06/25 16:25	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: Remington & Vernick Engineers
Project: Edison Landfill
Client Sample ID: MW-EB-1
Lab Sample ID: Q3534-05

Date Collected: 11/03/25 15:00
Date Received: 11/04/25
SDG No.: Q3534
Matrix: WATER
% Solid: 0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Nitrite	0.074	U	1	0.074	0.60	mg/L		11/04/25 19:29	300.0
Nitrate	0.095	U	1	0.095	0.50	mg/L		11/04/25 19:29	300.0
Nitrate+Nitrite	0.17	U	1	0.17	1.10	mg/L		11/04/25 19:29	300.0
BOD5	116		1	0.20	2.00	mg/L		11/05/25 10:10	SM 5210 B-16
COD	140		1	1.50	10.0	mg/L		11/07/25 13:10	SM 5220 D-11
Cyanide	0.061	J	1	0.048	0.25	mg/L	11/07/25 10:15	11/07/25 15:48	9012B
Dissolved Hexavalent Chromium	0.0030	U	1	0.0030	0.010	mg/L		11/04/25 16:50	7196A
Oil and Grease	5.40		1	0.29	5.00	mg/L		11/07/25 10:30	1664A
pH	6.32	H	1	0	0	pH		11/05/25 10:40	9040C
TDS	920		1	1.00	10.0	mg/L		11/05/25 11:30	SM 2540 C-20
TKN	30.1	OR	1	0.11	0.50	mg/L	11/06/25 09:10	11/06/25 15:42	SM4500-N Org C-21 plus NH3 B plus G-21

Comments: pH result reported at temperature 20.1 °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: Remington & Vernick Engineers
Project: Edison Landfill
Client Sample ID: MW-EB-1DL
Lab Sample ID: Q3534-05DL

Date Collected: 11/03/25 15:00
Date Received: 11/04/25
SDG No.: Q3534
Matrix: WATER
% Solid: 0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
TKN	35.0	D	10	1.10	5.00	mg/L	11/06/25 09:10	11/06/25 16:25	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: Remington & Vernick Engineers
Project: Edison Landfill
Client Sample ID: MW-EB-2
Lab Sample ID: Q3534-06

Date Collected: 11/04/25 10:05
Date Received: 11/04/25
SDG No.: Q3534
Matrix: WATER
% Solid: 0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Nitrite	0.074	U	1	0.074	0.60	mg/L		11/04/25 19:51	300.0
Nitrate	0.095	U	1	0.095	0.50	mg/L		11/04/25 19:51	300.0
Nitrate+Nitrite	0.17	U	1	0.17	1.10	mg/L		11/04/25 19:51	300.0
BOD5	14.5		1	0.20	2.00	mg/L		11/05/25 10:10	SM 5210 B-16
COD	60.3		1	1.50	10.0	mg/L		11/07/25 13:10	SM 5220 D-11
Cyanide	0.23	J	1	0.047	0.25	mg/L	11/07/25 10:15	11/07/25 15:48	9012B
Dissolved Hexavalent Chromium	0.0030	U	1	0.0030	0.010	mg/L		11/04/25 16:50	7196A
Oil and Grease	0.60	J	1	0.29	5.00	mg/L		11/07/25 10:30	1664A
pH	6.56	H	1	0	0	pH		11/05/25 10:47	9040C
TDS	6470		1	1.00	10.0	mg/L		11/05/25 11:30	SM 2540 C-20
TKN	7.90		1	0.11	0.50	mg/L	11/06/25 09:10	11/06/25 15:42	SM4500-N Org C-21 plus NH3 B plus G-21

Comments: pH result reported at temperature 20.8 °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: Remington & Vernick Engineers
Project: Edison Landfill
Client Sample ID: MW-EB-3
Lab Sample ID: Q3534-07

Date Collected: 11/03/25 14:30
Date Received: 11/04/25
SDG No.: Q3534
Matrix: WATER
% Solid: 0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Nitrite	0.074	U	1	0.074	0.60	mg/L		11/04/25 20:12	300.0
Nitrate	0.095	U	1	0.095	0.50	mg/L		11/04/25 20:12	300.0
Nitrate+Nitrite	0.17	U	1	0.17	1.10	mg/L		11/04/25 20:12	300.0
BOD5	33.9		1	0.20	2.00	mg/L		11/05/25 10:10	SM 5210 B-16
COD	97.7		1	1.50	10.0	mg/L		11/07/25 13:11	SM 5220 D-11
Cyanide	0.048	U	1	0.048	0.25	mg/L	11/07/25 10:15	11/07/25 15:48	9012B
Dissolved Hexavalent Chromium	0.0030	U	1	0.0030	0.010	mg/L		11/04/25 16:52	7196A
Oil and Grease	0.70	J	1	0.29	5.00	mg/L		11/07/25 10:30	1664A
pH	6.70	H	1	0	0	pH		11/05/25 10:50	9040C
TDS	8970		1	1.00	10.0	mg/L		11/05/25 11:30	SM 2540 C-20
TKN	6.20		1	0.11	0.50	mg/L	11/06/25 09:10	11/06/25 15:42	SM4500-N Org C-21 plus NH3 B plus G-21

Comments: pH result reported at temperature 20.8 °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: Remington & Vernick Engineers
Project: Edison Landfill
Client Sample ID: FB-1
Lab Sample ID: Q3534-09

Date Collected: 11/04/25 11:20
Date Received: 11/04/25
SDG No.: Q3534
Matrix: WATER
% Solid: 0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Cyanide	0.048	U	1	0.048	0.25	mg/L	11/07/25 10:15	11/07/25 15:48	9012B
Dissolved Hexavalent Chromium	0.0030	U	1	0.0030	0.010	mg/L		11/04/25 16:54	7196A
Oil and Grease	0.29	U	1	0.29	5.00	mg/L		11/07/25 10:30	1664A

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: Remington & Vernick Engineers
Project: Edison Landfill
Client Sample ID: EB-1
Lab Sample ID: Q3534-10

Date Collected: 11/04/25 11:20
Date Received: 11/04/25
SDG No.: Q3534
Matrix: WATER
% Solid: 0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Cyanide	0.046	U	1	0.046	0.24	mg/L	11/07/25 10:15	11/07/25 15:48	9012B
Dissolved Hexavalent Chromium	0.0030	U	1	0.0030	0.010	mg/L		11/05/25 10:07	7196A
Oil and Grease	0.29	U	1	0.29	5.00	mg/L		11/07/25 10:30	1664A

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: Remington & Vernick Engineers

SDG No.: Q3534

Project: Edison Landfill

RunNo.: LB137763

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	10.3	10	103	90-110	11/04/2025
Chloride	mg/L	3.1	3	103	90-110	11/04/2025
Fluoride	mg/L	2	2	100	90-110	11/04/2025
Nitrite	mg/L	3.1	3	103	90-110	11/04/2025
Nitrate	mg/L	2.5	2.5	100	90-110	11/04/2025
Sulfate	mg/L	15.1	15	101	90-110	11/04/2025
Orthophosphate as P	mg/L	4.8	5	96	90-110	11/04/2025
Sample ID: CCV2						
Bromide	mg/L	10.2	10	102	90-110	11/04/2025
Chloride	mg/L	3.1	3	103	90-110	11/04/2025
Fluoride	mg/L	2.1	2	105	90-110	11/04/2025
Nitrite	mg/L	3.1	3	103	90-110	11/04/2025
Nitrate	mg/L	2.6	2.5	104	90-110	11/04/2025
Sulfate	mg/L	15.4	15	103	90-110	11/04/2025
Orthophosphate as P	mg/L	5.6	5	112	90-110	11/04/2025
Sample ID: CCV3						
Bromide	mg/L	10.1	10	101	90-110	11/05/2025
Chloride	mg/L	3	3	100	90-110	11/05/2025
Fluoride	mg/L	2	2	100	90-110	11/05/2025
Nitrite	mg/L	3	3	100	90-110	11/05/2025
Nitrate	mg/L	2.5	2.5	100	90-110	11/05/2025
Sulfate	mg/L	15	15	100	90-110	11/05/2025
Orthophosphate as P	mg/L	4.5	5	90	90-110	11/05/2025
Sample ID: CCV4						
Bromide	mg/L	10.1	10	101	90-110	11/05/2025
Chloride	mg/L	3	3	100	90-110	11/05/2025
Fluoride	mg/L	2	2	100	90-110	11/05/2025
Nitrite	mg/L	3	3	100	90-110	11/05/2025
Nitrate	mg/L	2.5	2.5	100	90-110	11/05/2025
Sulfate	mg/L	14.9	15	99	90-110	11/05/2025

Initial and Continuing Calibration Verification

Client: Remington & Vernick Engineers

SDG No.: Q3534

Project: Edison Landfill

RunNo.: LB137763

Analyte	Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Orthophosphate as P	mg/L	5.1	5	102	90-110	11/05/2025

Initial and Continuing Calibration Verification

Client: Remington & Vernick Engineers

SDG No.: Q3534

Project: Edison Landfill

RunNo.: LB137766

Analyte	Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID: ICV Hexavalent Chromium	mg/L	0.498	0.5	100	90-110	11/04/2025
Sample ID: CCV1 Hexavalent Chromium	mg/L	0.502	0.5	100	90-110	11/04/2025
Sample ID: CCV2 Hexavalent Chromium	mg/L	0.500	0.5	100	90-110	11/04/2025
Sample ID: CCV3 Hexavalent Chromium	mg/L	0.502	0.5	100	90-110	11/04/2025

Initial and Continuing Calibration Verification

Client: Remington & Vernick Engineers

SDG No.: Q3534

Project: Edison Landfill

RunNo.: LB137776

Analyte	Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID: ICV pH	pH	6.98	7	100	90-110	11/05/2025
Sample ID: CCV1 pH	pH	2.02	2.00	101	90-110	11/05/2025
Sample ID: CCV2 pH	pH	12.02	12.00	100	90-110	11/05/2025
Sample ID: CCV3 pH	pH	2.01	2.00	101	90-110	11/05/2025

Initial and Continuing Calibration Verification

Client: Remington & Vernick Engineers

SDG No.: Q3534

Project: Edison Landfill

RunNo.: LB137790

Analyte	Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID: ICV Hexavalent Chromium	mg/L	0.498	0.5	100	90-110	11/05/2025
Sample ID: CCV1 Hexavalent Chromium	mg/L	0.503	0.5	101	90-110	11/05/2025
Sample ID: CCV2 Hexavalent Chromium	mg/L	0.499	0.5	100	90-110	11/05/2025

Initial and Continuing Calibration Verification

Client: Remington & Vernick Engineers

SDG No.: Q3534

Project: Edison Landfill

RunNo.: LB137809

Analyte	Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID: ICV1 TKN	mg/L	5	5	100	90-110	11/06/2025
Sample ID: CCV1 TKN	mg/L	4.9	5	98	90-110	11/06/2025
Sample ID: CCV2 TKN	mg/L	4.9	5	98	90-110	11/06/2025
Sample ID: CCV3 TKN	mg/L	5	5	100	90-110	11/06/2025
Sample ID: CCV4 TKN	mg/L	4.9	5	98	90-110	11/06/2025

Initial and Continuing Calibration Verification

Client: Remington & Vernick Engineers

SDG No.: Q3534

Project: Edison Landfill

RunNo.: LB137820

Analyte	Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID: ICV COD	mg/L	50.173	50	100	95-105	09/08/2025
Sample ID: CCV1 COD	mg/L	51.184	50	102	95-105	11/07/2025
Sample ID: CCV2 COD	mg/L	51.184	50	102	95-105	11/07/2025
Sample ID: CCV3 COD	mg/L	50.173	50	100	95-105	11/07/2025

Initial and Continuing Calibration Verification

Client: Remington & Vernick Engineers

SDG No.: Q3534

Project: Edison Landfill

RunNo.: LB137830

Analyte	Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID: ICV1 Cyanide	mg/L	0.097	0.099	98	90-110	11/07/2025
Sample ID: CCV1 Cyanide	mg/L	0.25	0.25	100	90-110	11/07/2025
Sample ID: CCV2 Cyanide	mg/L	0.24	0.25	96	90-110	11/07/2025
Sample ID: CCV3 Cyanide	mg/L	0.24	0.25	96	90-110	11/07/2025
Sample ID: CCV4 Cyanide	mg/L	0.24	0.25	96	90-110	11/07/2025
Sample ID: CCV5 Cyanide	mg/L	0.26	0.25	104	90-110	11/07/2025

Initial and Continuing Calibration Blank Summary

Client: Remington & Vernick Engineers

SDG No.: Q3534

Project: Edison Landfill

RunNo.: LB137763

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	11/04/2025
Chloride	mg/L	< 0.3000	0.3000	U	0.19	0.6	11/04/2025
Fluoride	mg/L	< 0.2000	0.2000	U	0.11	0.4	11/04/2025
Nitrite	mg/L	< 0.3000	0.3000	U	0.074	0.6	11/04/2025
Nitrate	mg/L	< 0.2500	0.2500	U	0.095	0.5	11/04/2025
Sulfate	mg/L	< 1.5000	1.5000	U	0.46	3	11/04/2025
Orthophosphate as P	mg/L	< 0.5000	0.5000	U	0.34	1	11/04/2025
Sample ID: CCB2							
Bromide	mg/L	< 1.0000	1.0000	U	0.37	2	11/04/2025
Chloride	mg/L	< 0.3000	0.3000	U	0.19	0.6	11/04/2025
Fluoride	mg/L	< 0.2000	0.2000	U	0.11	0.4	11/04/2025
Nitrite	mg/L	< 0.3000	0.3000	U	0.074	0.6	11/04/2025
Nitrate	mg/L	< 0.2500	0.2500	U	0.095	0.5	11/04/2025
Sulfate	mg/L	< 1.5000	1.5000	U	0.46	3	11/04/2025
Orthophosphate as P	mg/L	< 0.5000	0.5000	U	0.34	1	11/04/2025
Sample ID: CCB3							
Bromide	mg/L	< 1.0000	1.0000	U	0.37	2	11/05/2025
Chloride	mg/L	< 0.3000	0.3000	U	0.19	0.6	11/05/2025
Fluoride	mg/L	< 0.2000	0.2000	U	0.11	0.4	11/05/2025
Nitrite	mg/L	< 0.3000	0.3000	U	0.074	0.6	11/05/2025
Nitrate	mg/L	< 0.2500	0.2500	U	0.095	0.5	11/05/2025
Sulfate	mg/L	< 1.5000	1.5000	U	0.46	3	11/05/2025
Orthophosphate as P	mg/L	< 0.5000	0.5000	U	0.34	1	11/05/2025
Sample ID: CCB4							
Bromide	mg/L	< 1.0000	1.0000	U	0.37	2	11/05/2025
Chloride	mg/L	< 0.3000	0.3000	U	0.19	0.6	11/05/2025
Fluoride	mg/L	< 0.2000	0.2000	U	0.11	0.4	11/05/2025
Nitrite	mg/L	< 0.3000	0.3000	U	0.074	0.6	11/05/2025
Nitrate	mg/L	< 0.2500	0.2500	U	0.095	0.5	11/05/2025
Sulfate	mg/L	< 1.5000	1.5000	U	0.46	3	11/05/2025
Orthophosphate as P	mg/L	< 0.5000	0.5000	U	0.34	1	11/05/2025

Initial and Continuing Calibration Blank Summary

Client: Remington & Vernick Engineers

SDG No.: Q3534

Project: Edison Landfill

RunNo.: LB137766

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	11/04/2025
Sample ID: CCB1 Hexavalent Chromium	mg/L	< 0.0050	0.0050	U	0.0029	0.01	11/04/2025
Sample ID: CCB2 Hexavalent Chromium	mg/L	< 0.0050	0.0050	U	0.0029	0.01	11/04/2025
Sample ID: CCB3 Hexavalent Chromium	mg/L	< 0.0050	0.0050	U	0.0029	0.01	11/04/2025

Initial and Continuing Calibration Blank Summary

Client: Remington & Vernick Engineers

SDG No.: Q3534

Project: Edison Landfill

RunNo.: LB137790

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	11/05/2025
Sample ID: CCB1 Hexavalent Chromium	mg/L	< 0.0050	0.0050	U	0.0029	0.01	11/05/2025
Sample ID: CCB2 Hexavalent Chromium	mg/L	< 0.0050	0.0050	U	0.0029	0.01	11/05/2025

Initial and Continuing Calibration Blank Summary

Client: Remington & Vernick Engineers

SDG No.: Q3534

Project: Edison Landfill

RunNo.: LB137809

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	11/06/2025
Sample ID: CCB1 TKN	mg/L	< 0.2500	0.2500	U	0.11	0.5	11/06/2025
Sample ID: CCB2 TKN	mg/L	< 0.2500	0.2500	U	0.11	0.5	11/06/2025
Sample ID: CCB3 TKN	mg/L	< 0.2500	0.2500	U	0.11	0.5	11/06/2025
Sample ID: CCB4 TKN	mg/L	< 0.2500	0.2500	U	0.11	0.5	11/06/2025

Initial and Continuing Calibration Blank Summary

Client: Remington & Vernick Engineers

SDG No.: Q3534

Project: Edison Landfill

RunNo.: LB137820

Analyte	Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID: ICB COD	mg/L	< 5.0000	5.0000	U	1.50	10	09/08/2025
Sample ID: CCB1 COD	mg/L	< 5.0000	5.0000	U	1.50	10	11/07/2025
Sample ID: CCB2 COD	mg/L	< 5.0000	5.0000	U	1.50	10	11/07/2025
Sample ID: CCB3 COD	mg/L	< 5.0000	5.0000	U	1.50	10	11/07/2025

Initial and Continuing Calibration Blank Summary

Client: Remington & Vernick Engineers

SDG No.: Q3534

Project: Edison Landfill

RunNo.: LB137830

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	11/07/2025
Sample ID: CCB1 Cyanide	mg/L	< 0.0025	0.0025	U	0.00096	0.005	11/07/2025
Sample ID: CCB2 Cyanide	mg/L	< 0.0025	0.0025	U	0.00096	0.005	11/07/2025
Sample ID: CCB3 Cyanide	mg/L	< 0.0025	0.0025	U	0.00096	0.005	11/07/2025
Sample ID: CCB4 Cyanide	mg/L	< 0.0025	0.0025	U	0.00096	0.005	11/07/2025
Sample ID: CCB5 Cyanide	mg/L	< 0.0025	0.0025	U	0.00096	0.005	11/07/2025

Preparation Blank Summary

Client: Remington & Vernick Engineers

SDG No.: Q3534

Project: Edison Landfill

Analyte	Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID: LB137763BLW							
Bromide	mg/L	< 1.0000	1.0000	U	0.37	2	11/04/2025
Chloride	mg/L	< 0.3000	0.3000	U	0.19	0.6	11/04/2025
Fluoride	mg/L	< 0.2000	0.2000	U	0.11	0.4	11/04/2025
Nitrite	mg/L	< 0.3000	0.3000	U	0.074	0.6	11/04/2025
Nitrate	mg/L	< 0.2500	0.2500	U	0.095	0.5	11/04/2025
Sulfate	mg/L	< 1.5000	1.5000	U	0.46	3	11/04/2025
Orthophosphate as P	mg/L	< 0.5000	0.5000	U	0.34	1	11/04/2025
Sample ID: LB137763BLW2							
Bromide	mg/L	< 1.0000	1.0000	U	0.37	2	11/05/2025
Chloride	mg/L	< 0.3000	0.3000	U	0.19	0.6	11/05/2025
Fluoride	mg/L	< 0.2000	0.2000	U	0.11	0.4	11/05/2025
Nitrite	mg/L	< 0.3000	0.3000	U	0.074	0.6	11/05/2025
Nitrate	mg/L	< 0.2500	0.2500	U	0.095	0.5	11/05/2025
Sulfate	mg/L	< 1.5000	1.5000	U	0.46	3	11/05/2025
Orthophosphate as P	mg/L	< 0.5000	0.5000	U	0.34	1	11/05/2025
Sample ID: lb137766BL							
Hexavalent Chromium	mg/L	< 0.0050	0.0050	U	0.003	0.01	11/04/2025
Sample ID: LB137775BL							
TDS	mg/L	1	5.0000	J	1.0	10	11/05/2025
Sample ID: LB137780BL							
BOD5	mg/L	< 0.2000	0.2000	U	0.20	2.0	11/05/2025
Sample ID: LB137790BL							
Hexavalent Chromium	mg/L	< 0.0050	0.0050	U	0.003	0.01	11/05/2025
Sample ID: LB137814BL							
Oil and Grease	mg/L	< 2.5000	2.5000	U	0.29	5.0	11/07/2025
Sample ID: LB137820BL							
COD	mg/L	< 5.0000	5.0000	U	1.5	10.0	11/07/2025
Sample ID: PB170430BL							
TKN	mg/L	< 0.2500	0.2500	U	0.11	0.5	11/06/2025
Sample ID: PB170441BL							
Cyanide	mg/L	< 0.1250	0.1250	U	0.048	0.25	11/07/2025

Matrix Spike Summary

Client:	Remington & Vernick Engineers	SDG No.:	Q3534
Project:	Edison Landfill	Sample ID:	Q3534-01
Client ID:	MW-6MS	Percent Solids for Spike Sample:	0

Analyte	Units	Acceptance Limit %R	Spiked Result	Conc. Qualifier	Sample Result	Conc. Qualifier	Spike Added	Dilution Factor	% Rec	Qual	Analysis Date
Cyanide	mg/L	75-125	1.80		0.047	U	1.94175	1	93		11/07/2025

Matrix Spike Summary

Client:	Remington & Vernick Engineers	SDG No.:	Q3534
Project:	Edison Landfill	Sample ID:	Q3534-01
Client ID:	MW-6MSD	Percent Solids for Spike Sample:	0

Analyte	Units	Acceptance Limit %R	Spiked Result	Conc. Qualifier	Sample Result	Conc. Qualifier	Spike Added	Dilution Factor	% Rec	Qual	Analysis Date
Cyanide	mg/L	75-125	1.80		0.047	U	1.9802	1	91		11/07/2025

Matrix Spike Summary

Client:	Remington & Vernick Engineers	SDG No.:	Q3534
Project:	Edison Landfill	Sample ID:	Q3534-07
Client ID:	MW-EB-3MS	Percent Solids for Spike Sample:	0

Analyte	Units	Acceptance Limit %R	Spiked Result	Conc. Qualifier	Sample Result	Conc. Qualifier	Spike Added	Dilution Factor	% Rec	Qual	Analysis Date
Hexavalent Chromium	mg/L	90-111	0.94		0.0030	U	1.0	2	94		11/04/2025

Matrix Spike Summary

Client:	Remington & Vernick Engineers	SDG No.:	Q3534
Project:	Edison Landfill	Sample ID:	Q3534-07
Client ID:	MW-EB-3MSD	Percent Solids for Spike Sample:	0

Analyte	Units	Acceptance Limit %R	Spiked Result	Conc. Qualifier	Sample Result	Conc. Qualifier	Spike Added	Dilution Factor	% Rec	Qual	Analysis Date
Hexavalent Chromium	mg/L	90-111	0.95		0.0030	U	1.0	2	95		11/04/2025

Matrix Spike Summary

Client:	Remington & Vernick Engineers	SDG No.:	Q3534
Project:	Edison Landfill	Sample ID:	Q3537-03
Client ID:	MW-17-PURGE-WATERMS	Percent Solids for Spike Sample:	0

Analyte	Units	Acceptance Limit %R	Spiked Result	Conc. Qualifier	Sample Result	Conc. Qualifier	Spike Added	Dilution Factor	% Rec	Qual	Analysis Date
Bromide	mg/L	80-120	9.50	OR	0.37	U	10	1	95		11/05/2025
Chloride	mg/L	80-120	132		137	OR	3	1	-167	*	11/05/2025
TKN	mg/L	75-125	5.20		0.25	J	5	1	99		11/06/2025
Fluoride	mg/L	80-120	2.10		0.18	J	2	1	96		11/05/2025
Nitrite	mg/L	80-120	2.80		0.074	U	3	1	93		11/05/2025
Nitrate	mg/L	80-120	2.60		0.34	J	2.5	1	90		11/05/2025
Sulfate	mg/L	80-120	22.9		9.30		15	1	91		11/05/2025
Orthophosphate as P	mg/L	80-120	5.00		0.34	U	5	1	100		11/05/2025

Matrix Spike Summary

Client:	Remington & Vernick Engineers	SDG No.:	Q3534
Project:	Edison Landfill	Sample ID:	Q3537-03
Client ID:	MW-17-PURGE-WATERMSD	Percent Solids for Spike Sample:	0

Analyte	Units	Acceptance Limit %R	Spiked Result	Conc. Qualifier	Sample Result	Conc. Qualifier	Spike Added	Dilution Factor	% Rec	Qual	Analysis Date
Bromide	mg/L	80-120	10.0	OR	0.37	U	10	1	100		11/05/2025
Chloride	mg/L	80-120	132		137	OR	3	1	-167	*	11/05/2025
TKN	mg/L	75-125	5.10		0.25	J	5	1	97		11/06/2025
Fluoride	mg/L	80-120	2.10		0.18	J	2	1	96		11/05/2025
Nitrite	mg/L	80-120	3.00		0.074	U	3	1	100		11/05/2025
Nitrate	mg/L	80-120	2.70		0.34	J	2.5	1	94		11/05/2025
Sulfate	mg/L	80-120	23.4		9.30		15	1	94		11/05/2025
Orthophosphate as P	mg/L	80-120	4.70		0.34	U	5	1	94		11/05/2025

Matrix Spike Summary

Client:	Remington & Vernick Engineers	SDG No.:	Q3534
Project:	Edison Landfill	Sample ID:	Q3541-01
Client ID:	N48969MS	Percent Solids for Spike Sample:	0

Analyte	Units	Acceptance Limit %R	Spiked Result	Conc. Qualifier	Sample Result	Conc. Qualifier	Spike Added	Dilution Factor	% Rec	Qual	Analysis Date
COD	mg/L	75-125	60.3		11.7		50.0	1	97		11/07/2025

Matrix Spike Summary

Client:	Remington & Vernick Engineers	SDG No.:	Q3534
Project:	Edison Landfill	Sample ID:	Q3541-01
Client ID:	N48969MSD	Percent Solids for Spike Sample:	0

Analyte	Units	Acceptance Limit %R	Spiked Result	Conc. Qualifier	Sample Result	Conc. Qualifier	Spike Added	Dilution Factor	% Rec	Qual	Analysis Date
COD	mg/L	75-125	59.3		11.7		50.0	1	95		11/07/2025

Matrix Spike Summary

Client:	Remington & Vernick Engineers	SDG No.:	Q3534
Project:	Edison Landfill	Sample ID:	Q3551-01
Client ID:	MANHOLEMS	Percent Solids for Spike Sample:	0

Analyte	Units	Acceptance Limit %R	Spiked Result	Conc. Qualifier	Sample Result	Conc. Qualifier	Spike Added	Dilution Factor	% Rec	Qual	Analysis Date
Oil and Grease	mg/L	78-114	25.9		5.80		20.0	1	101		11/07/2025

Matrix Spike Summary

Client:	Remington & Vernick Engineers	SDG No.:	Q3534
Project:	Edison Landfill	Sample ID:	Q3551-01
Client ID:	MANHOLEMSD	Percent Solids for Spike Sample:	0

Analyte	Units	Acceptance Limit %R	Spiked Result	Conc. Qualifier	Sample Result	Conc. Qualifier	Spike Added	Dilution Factor	% Rec	Qual	Analysis Date
Oil and Grease	mg/L	78-114	26.0		5.80		20.0	1	101		11/07/2025

Matrix Spike Summary

Client:	Remington & Vernick Engineers	SDG No.:	Q3534
Project:	Edison Landfill	Sample ID:	Q3554-01
Client ID:	EFFLUENTMS	Percent Solids for Spike Sample:	0

Analyte	Units	Acceptance Limit %R	Spiked Result	Conc. Qualifier	Sample Result	Conc. Qualifier	Spike Added	Dilution Factor	% Rec	Qual	Analysis Date
Oil and Grease	mg/L	78-114	38.6		18.4		20.0	1	101		11/07/2025

Matrix Spike Summary

Client:	Remington & Vernick Engineers	SDG No.:	Q3534
Project:	Edison Landfill	Sample ID:	Q3554-01
Client ID:	EFFLUENTMSD	Percent Solids for Spike Sample:	0

Analyte	Units	Acceptance Limit %R	Spiked Result	Conc. Qualifier	Sample Result	Conc. Qualifier	Spike Added	Dilution Factor	% Rec	Qual	Analysis Date
Oil and Grease	mg/L	78-114	38.8		18.4		20.0	1	102		11/07/2025

Duplicate Sample Summary

Client:	Remington & Vernick Engineers	SDG No.:	Q3534
Project:	Edison Landfill	Sample ID:	Q3534-01
Client ID:	MW-6DUP	Percent Solids for Spike Sample:	0

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/ AD	Qual	Analysis Date
Cyanide	mg/L	+/-20	0.047	U	0.047	U	1	0		11/07/2025

Duplicate Sample Summary

Client:	Remington & Vernick Engineers	SDG No.:	Q3534
Project:	Edison Landfill	Sample ID:	Q3534-01
Client ID:	MW-6MSD	Percent Solids for Spike Sample:	0

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/ AD	Qual	Analysis Date
Cyanide	mg/L	+/-20	1.80		1.80		1	0		11/07/2025

Duplicate Sample Summary

Client: Remington & Vernick Engineers Project: Edison Landfill Client ID: MW-EB-3DUP	SDG No.: Q3534 Sample ID: Q3534-07 Percent Solids for Spike Sample: 0
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Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/ AD	Qual	Analysis Date
Hexavalent Chromium	mg/L	+/-20	0.0030	U	0.0030	U	1	0		11/04/2025
TDS	mg/L	+/-5	8970		9400		1	4.69		11/05/2025

Duplicate Sample Summary

Client:	Remington & Vernick Engineers	SDG No.:	Q3534
Project:	Edison Landfill	Sample ID:	Q3534-07
Client ID:	MW-EB-3MSD	Percent Solids for Spike Sample:	0

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/ AD	Qual	Analysis Date
Hexavalent Chromium	mg/L	+/-20	0.94		0.95		2	0.42		11/04/2025

Duplicate Sample Summary

Client: Remington & Vernick Engineers	SDG No.: Q3534
Project: Edison Landfill	Sample ID: Q3537-03
Client ID: MW-17-PURGE-WATERDUP	Percent Solids for Spike Sample: 0

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/ AD	Qual	Analysis Date
BOD5	mg/L	+/-20	0.20	U	0.20	U	1	0		11/05/2025
TKN	mg/L	+/-20	0.25	J	0.25	J	1	0		11/06/2025

Duplicate Sample Summary

Client: Remington & Vernick Engineers	SDG No.: Q3534
Project: Edison Landfill	Sample ID: Q3537-03
Client ID: MW-17-PURGE-WATERMSD	Percent Solids for Spike Sample: 0

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/AD	Qual	Analysis Date
Fluoride	mg/L	+/-20	2.10	OR	2.10	OR	1	0		11/05/2025
Chloride	mg/L	+/-20	132		132		1	0		11/05/2025
Sulfate	mg/L	+/-20	22.9		23.4		1	2		11/05/2025
Nitrate	mg/L	+/-20	2.60		2.70		1	4		11/05/2025
Bromide	mg/L	+/-20	9.50		10.0		1	5		11/05/2025
Orthophosphate as P	mg/L	+/-20	5.00		4.70		1	6		11/05/2025
Nitrite	mg/L	+/-20	2.80		3.00		1	7		11/05/2025
TKN	mg/L	+/-20	5.20		5.10		1	2		11/06/2025

Duplicate Sample Summary

Client: Remington & Vernick Engineers	SDG No.: Q3534
Project: Edison Landfill	Sample ID: Q3541-01
Client ID: N48969DUP	Percent Solids for Spike Sample: 0

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/ AD	Qual	Analysis Date
COD	mg/L	+/-20	11.7		11.7		1	0		11/07/2025

Duplicate Sample Summary

Client:	Remington & Vernick Engineers	SDG No.:	Q3534
Project:	Edison Landfill	Sample ID:	Q3541-01
Client ID:	N48969MSD	Percent Solids for Spike Sample:	0

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/ AD	Qual	Analysis Date
COD	mg/L	+/-20	60.3		59.3		1	1.67		11/07/2025

Duplicate Sample Summary

Client: Remington & Vernick Engineers	SDG No.: Q3534
Project: Edison Landfill	Sample ID: Q3542-01
Client ID: AUD-25-182-194DUP	Percent Solids for Spike Sample: 0

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/ AD	Qual	Analysis Date
pH	pH	+/-20	9.70		9.72		1	0.21		11/05/2025

Duplicate Sample Summary

Client: Remington & Vernick Engineers	SDG No.: Q3534
Project: Edison Landfill	Sample ID: Q3554-01
Client ID: EFFLUENTMSD	Percent Solids for Spike Sample: 0

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/ AD	Qual	Analysis Date
Oil and Grease	mg/L	+/-18	38.6		38.8		1	0.52		11/07/2025

Duplicate Sample Summary

Client:	Remington & Vernick Engineers	SDG No.:	Q3534
Project:	Edison Landfill	Sample ID:	Q3551-01
Client ID:	MANHOLEMSD	Percent Solids for Spike Sample:	0

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/ AD	Qual	Analysis Date
Oil and Grease	mg/L	+/-18	25.9		26.0		1	0.39		11/07/2025

Laboratory Control Sample Summary

Client: Remington & Vernick Engineers

SDG No.: Q3534

Project: Edison Landfill

Run No.: LB137763

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID	LB137763BSW							
Bromide	mg/L	10	10.2		102	1	90-110	11/04/2025
Chloride	mg/L	3	3.10		103	1	90-110	11/04/2025
Fluoride	mg/L	2	2.00		100	1	90-110	11/04/2025
Nitrite	mg/L	3	3.10		103	1	90-110	11/04/2025
Nitrate	mg/L	2.5	2.60		104	1	90-110	11/04/2025
Sulfate	mg/L	15	15.2		101	1	90-110	11/04/2025
Orthophosphate as P	mg/L	5	4.90		98	1	90-110	11/04/2025

Laboratory Control Sample Summary

Client: Remington & Vernick Engineers

SDG No.: Q3534

Project: Edison Landfill

Run No.: LB137763

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID	LB137763BSW2							
Bromide	mg/L	10	10.1		101	1	90-110	11/05/2025
Chloride	mg/L	3	3.10		103	1	90-110	11/05/2025
Fluoride	mg/L	2	2.10		105	1	90-110	11/05/2025
Nitrite	mg/L	3	3.00		100	1	90-110	11/05/2025
Nitrate	mg/L	2.5	2.50		100	1	90-110	11/05/2025
Sulfate	mg/L	15	15.2		101	1	90-110	11/05/2025
Orthophosphate as P	mg/L	5	4.60		92	1	90-110	11/05/2025

Laboratory Control Sample Summary

Client: Remington & Vernick Engineers

SDG No.: Q3534

Project: Edison Landfill

Run No.: LB137766

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID	lb137766BS							
Hexavalent Chromium	mg/L	0.5	0.51		103	1	90-111	11/04/2025

Laboratory Control Sample Summary

Client: Remington & Vernick Engineers

SDG No.: Q3534

Project: Edison Landfill

Run No.: LB137775

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID	LB137775BS							
TDS	mg/L	100	95.0		95	1	90-110	11/05/2025

Laboratory Control Sample Summary

Client: Remington & Vernick Engineers

SDG No.: Q3534

Project: Edison Landfill

Run No.: LB137780

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID	LB137780BS							
BOD5	mg/L	198	195		98	1	84.6-115.4	11/05/2025

Laboratory Control Sample Summary

Client: Remington & Vernick Engineers

SDG No.: Q3534

Project: Edison Landfill

Run No.: LB137790

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID	LB137790BS							
Hexavalent Chromium	mg/L	0.5	0.52		103	1	90-111	11/05/2025

Laboratory Control Sample Summary

Client: Remington & Vernick Engineers

SDG No.: Q3534

Project: Edison Landfill

Run No.: LB137814

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID	LB137814BS							
Oil and Grease	mg/L	20.0	16.9		84	1	78-114	11/07/2025

Laboratory Control Sample Summary

Client: Remington & Vernick Engineers

SDG No.: Q3534

Project: Edison Landfill

Run No.: LB137820

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID	LB137820BS							
COD	mg/L	50	52.2		104	1	90-110	11/07/2025

Laboratory Control Sample Summary

Client: Remington & Vernick Engineers

SDG No.: Q3534

Project: Edison Landfill

Run No.: LB137809

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID	PB170430BS							
TKN	mg/L	5	5.00		100	1	90-110	11/06/2025

Laboratory Control Sample Summary

Client: Remington & Vernick Engineers

SDG No.: Q3534

Project: Edison Landfill

Run No.: LB137830

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID	PB170441BS							
Cyanide	mg/L	5	4.90		98	1	85-115	11/07/2025



RAW DATA

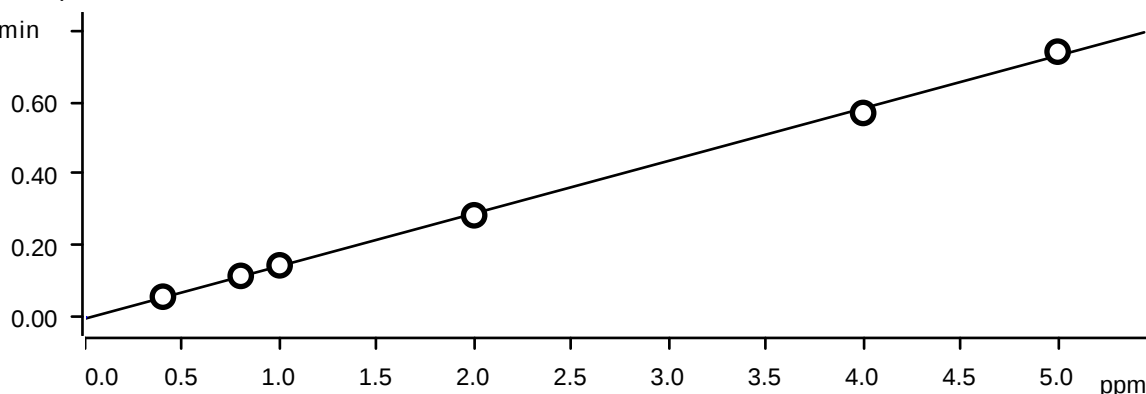
Ident	Instrument II IC-1				Analyst : RM	Method: 300.0 / 9056A		Initial wrt/ Analyst			
	Con F-	Con CL-	Con NO2	Con BR-		Con NO3	Con HPO4		Con SO4	Method name	date time
STD1	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	IC1-110325	11/3/2025 15:58	10 RM/IZ
STD2	0.417	0.655	0.659	2.182	0.549	0.953	3.345	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	2.005	3.074	3.053	10.254	2.545	4.799	15.144	IC1-110325	11/4/2025 16:16	10 RM/IZ	
CCB	0.000	0.000	0.000	0.000	0.000	0.000	0.000	IC1-110325	11/4/2025 16:37	10 RM/IZ	
LB137763BLW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	IC1-110325	11/4/2025 16:59	10 RM/IZ	
LB137763BSW	2.044	3.081	3.057	10.237	2.551	4.865	15.246	IC1-110325	11/4/2025 17:20	10 RM/IZ	
Q3534-01	0.150	214.920	0.000	1.773	0.000	0.000	2.880	IC1-110325	11/4/2025 18:03	10 RM/IZ	
Q3534-02	0.240	0.000	0.000	19.950	0.000	0.000	394.452	IC1-110325	11/4/2025 18:25	10 RM/IZ	
Q3534-03	0.351	0.000	0.000	21.910	0.000	0.000	765.544	IC1-110325	11/4/2025 18:46	10 RM/IZ	
Q3534-04	0.309	523.588	0.000	1.645	0.000	0.000	0.943	IC1-110325	11/4/2025 19:08	10 RM/IZ	
Q3534-05	0.177	317.892	0.000	2.272	0.000	0.000	3.536	IC1-110325	11/4/2025 19:29	10 RM/IZ	
Q3534-06	0.262	0.000	0.000	11.151	0.000	0.000	75.715	IC1-110325	11/4/2025 19:51	10 RM/IZ	
Q3534-07	0.302	0.000	0.000	16.167	0.000	0.191	261.875	IC1-110325	11/4/2025 20:12	10 RM/IZ	
CCV	2.069	3.093	3.058	10.227	2.550	5.582	15.417	IC1-110325	11/4/2025 21:17	10 RM/IZ	
CCB	0.000	0.000	0.000	0.000	0.000	0.000	0.000	IC1-110325	11/4/2025 21:39	10 RM/IZ	
CCV	2.030	3.034	3.015	10.060	2.507	4.534	15.023	IC1-110325	11/5/2025 9:50	10 RM/IZ	
CCB	0.000	0.000	0.000	0.000	0.000	0.000	0.000	IC1-110325	11/5/2025 10:11	10 RM/IZ	
LB137763BLW2	0.000	0.000	0.000	0.000	0.000	0.000	0.000	IC1-110325	11/5/2025 10:33	10 RM/IZ	
LB137763BSW2	2.051	3.058	3.035	10.137	2.528	4.647	15.162	IC1-110325	11/5/2025 10:54	10 RM/IZ	
Q3537-03	0.175	137.176	0.000	0.258	0.336	0.000	9.291	IC1-110325	11/5/2025 11:16	10 RM/IZ	
Q3537-03MS	2.050	131.561	2.820	9.473	2.558	4.970	22.904	IC1-110325	11/5/2025 11:37	10 RM/IZ	
Q3537-03MSD	2.141	131.617	2.972	10.005	2.685	4.650	23.444	IC1-110325	11/5/2025 11:59	10 RM/IZ	
Q3541-01	0.183	35.577	0.000	0.000	0.746	0.058	14.630	IC1-110325	11/5/2025 12:20	10 RM/IZ	
Q3530-08	0.422	0.642	0.643	2.115	0.539	1.047	3.239	IC1-110325	11/5/2025 12:42	10 RM/IZ	
Q3530-07	0.216	0.352	0.364	1.156	0.298	0.480	1.830	IC1-110325	11/5/2025 13:04	10 RM/IZ	
Q3530-07RE 0.25ML	0.123	0.210	0.221	0.678	0.188	0.333	1.173	IC1-110325	11/5/2025 13:25	10 RM/IZ	
CCV	2.019	3.032	3.015	10.073	2.512	5.081	14.900	IC1-110325	11/5/2025 13:47	10 RM/IZ	
CCB	0.000	0.000	0.000	0.000	0.000	0.000	0.000	IC1-110325	11/5/2025 14:08	10 RM/IZ	

Clear table

Instrument ID: IC-2 Analyst : IZ Method: 300.0 / 9056A											
ident	concentra tion F-	concentratio n CL-	concentrati on NO2	concentrati on BR-	concentrati on NO3	concentrati on HPO4	concentrati on SO4	file name	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				

Fluoride (Anions)

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



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

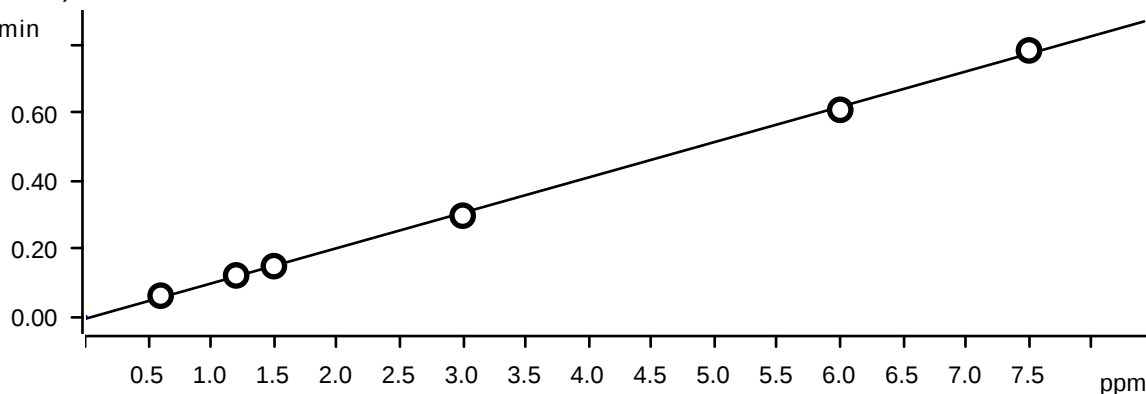
Relative standard deviation 2.880512 %

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)

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

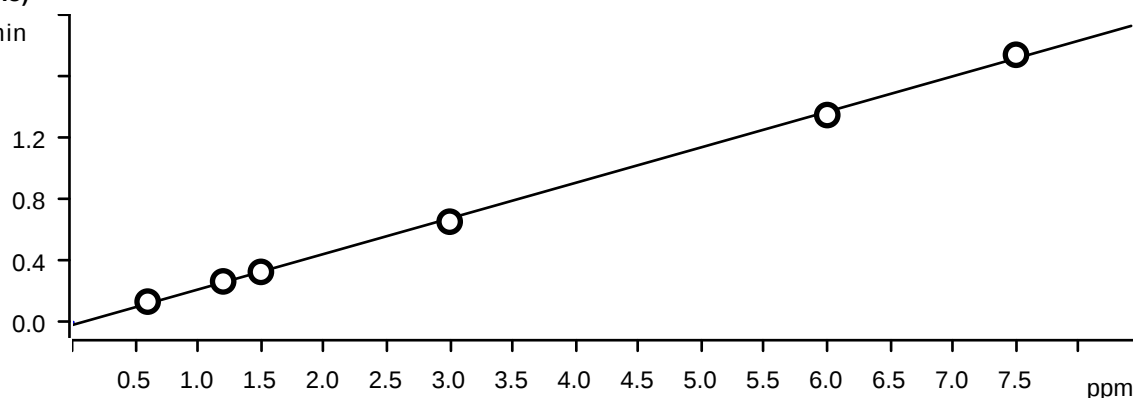


Function: $A = -7.14286E-3 + 0.0104011 \times Q$

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

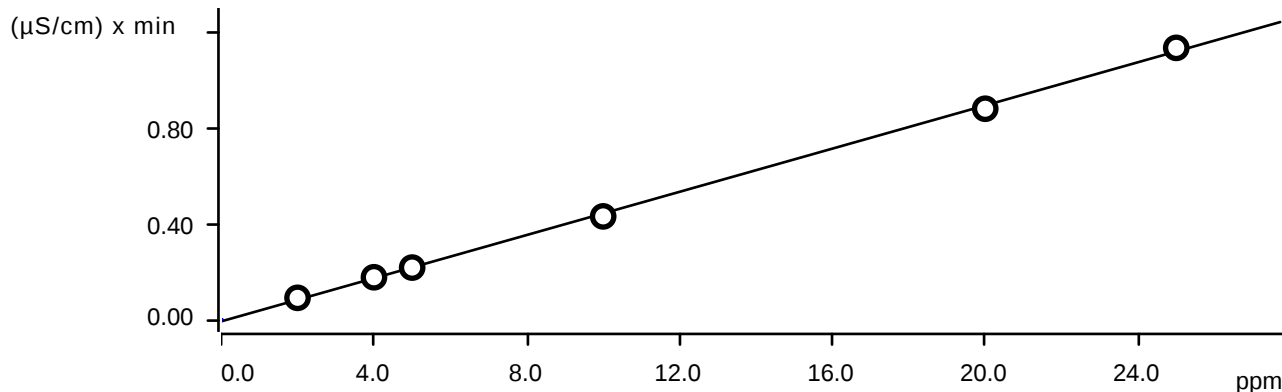
Nitrite (Anions) $(\mu\text{S}/\text{cm}) \times \text{min}$ Function: $A = -0.0188106 + 0.0231263 \times Q$

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

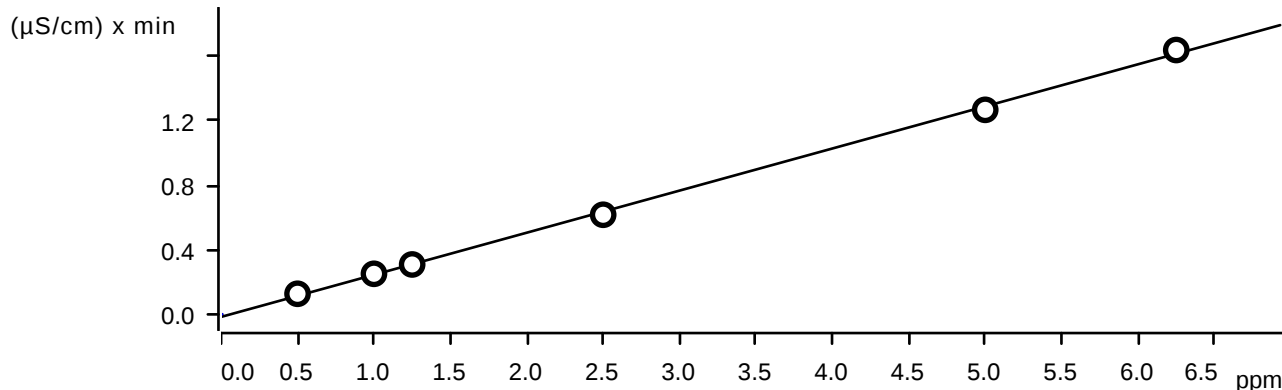
Bromide (Anions)



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)



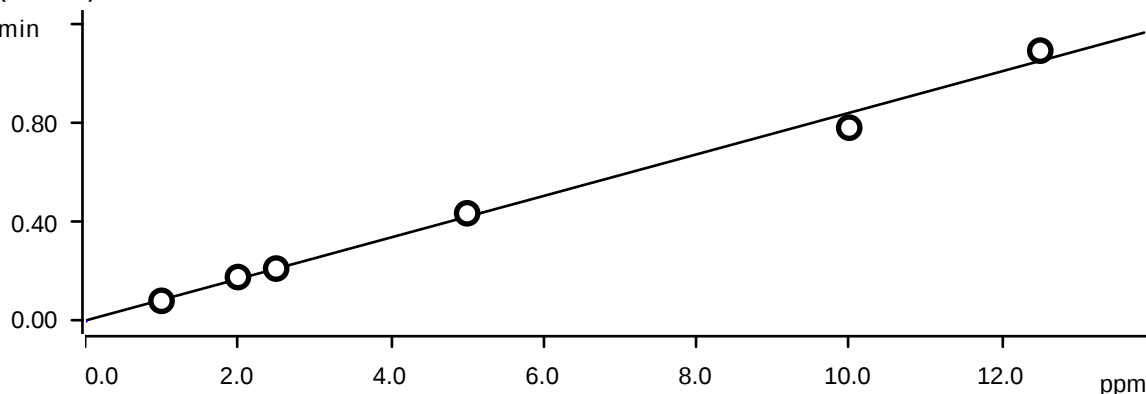
Function: $A = -0.0164240 + 0.0260850 \times Q$
 Relative standard deviation: 2.824357 %

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)

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



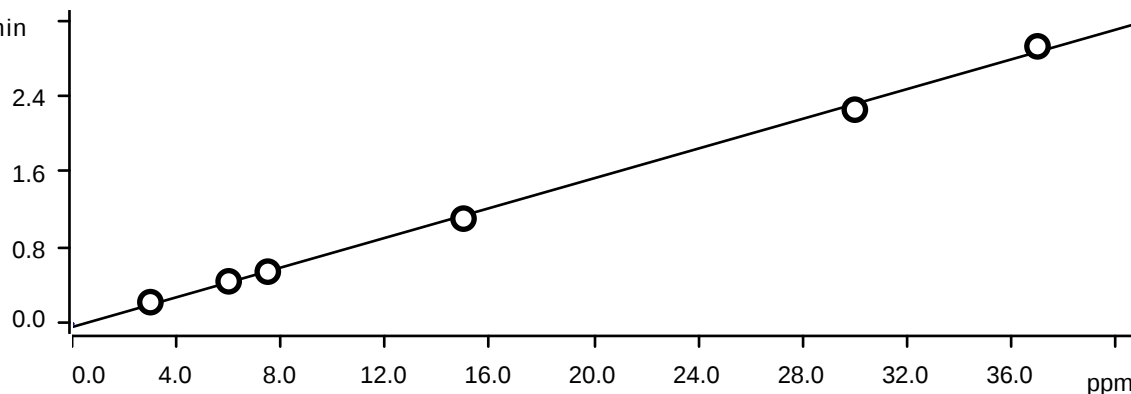
Function: $A = 1.95294E-3 + 8.36815E-3 \times Q$

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

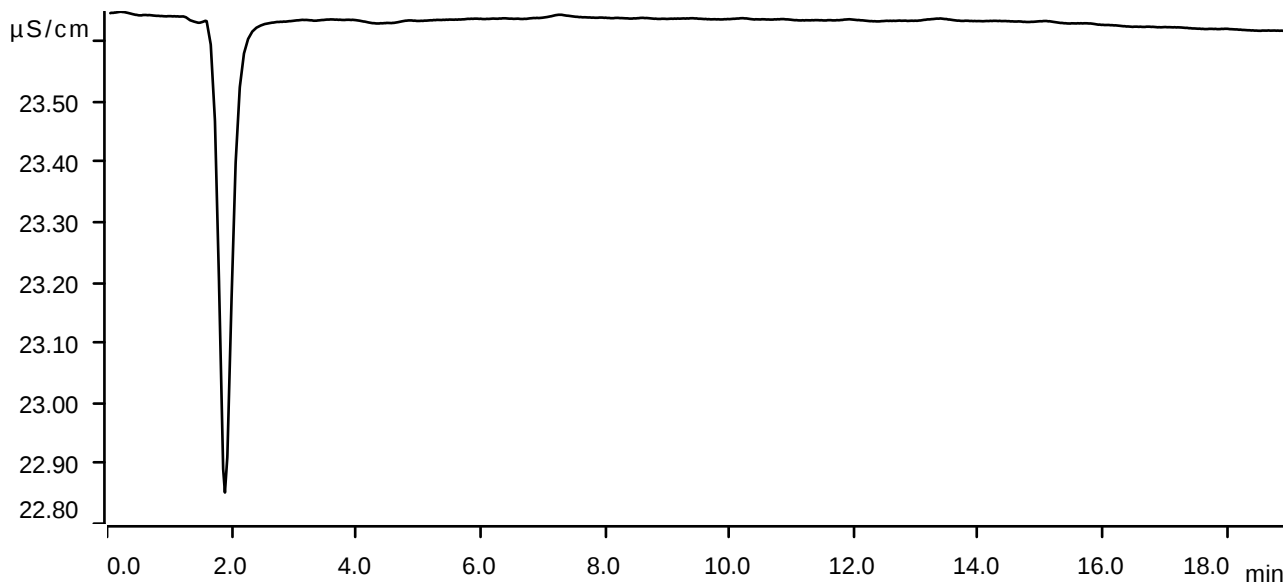
Sample type	Index	Conc.	Volume	Dilution	Sample amount	Area	Ident	Date	Used
Standard 1	1	0.000	10.0	1.0	1.0	n. d.	STD1	2025-11-03 15:58:57 UTC-5	used
Standard 2	1	3.000	10.0	1.0	1.0	0.228	STD2	2025-11-03 16:22:03 UTC-5	used
Standard 3	1	6.000	10.0	1.0	1.0	0.447	STD3	2025-11-03 17:04:52 UTC-5	used
Standard 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

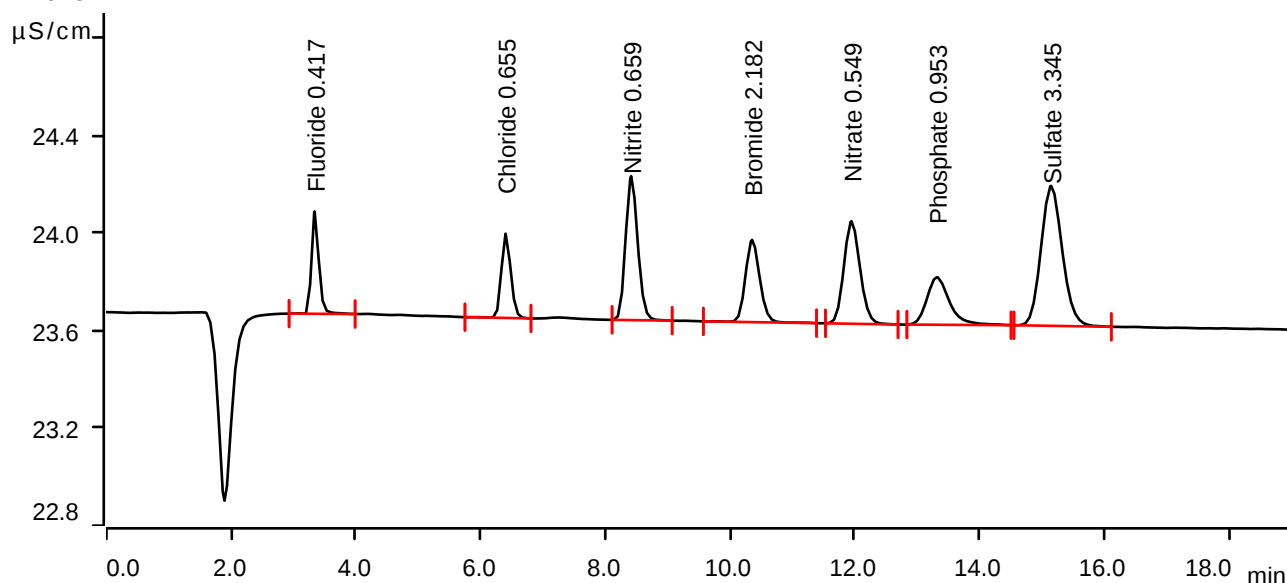
Sample data

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

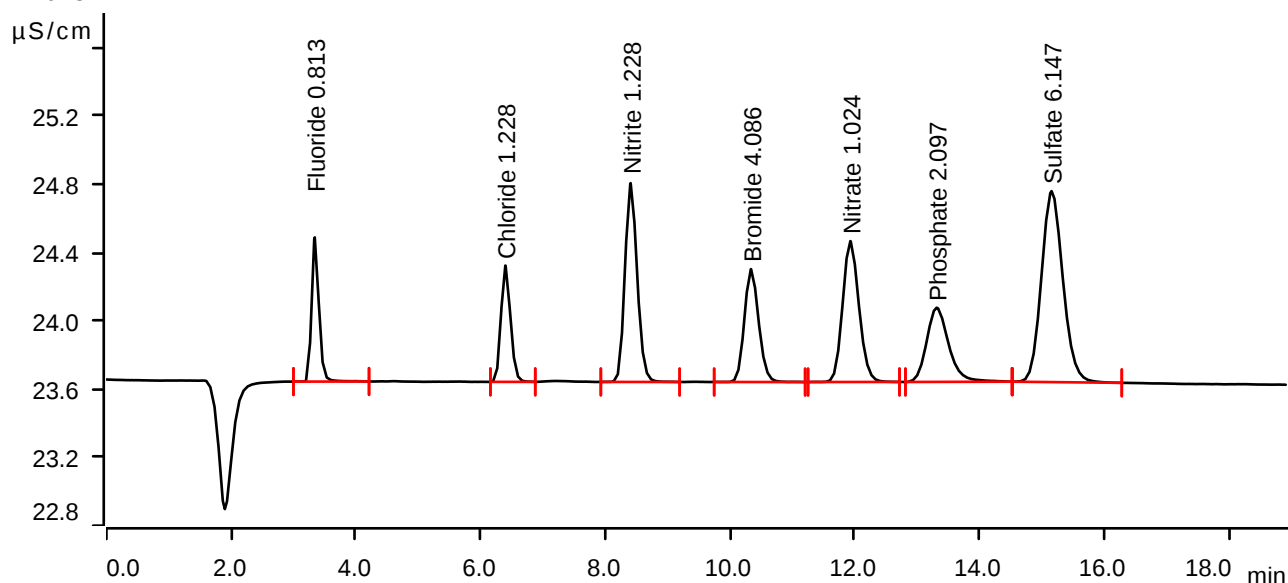
Sample data

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

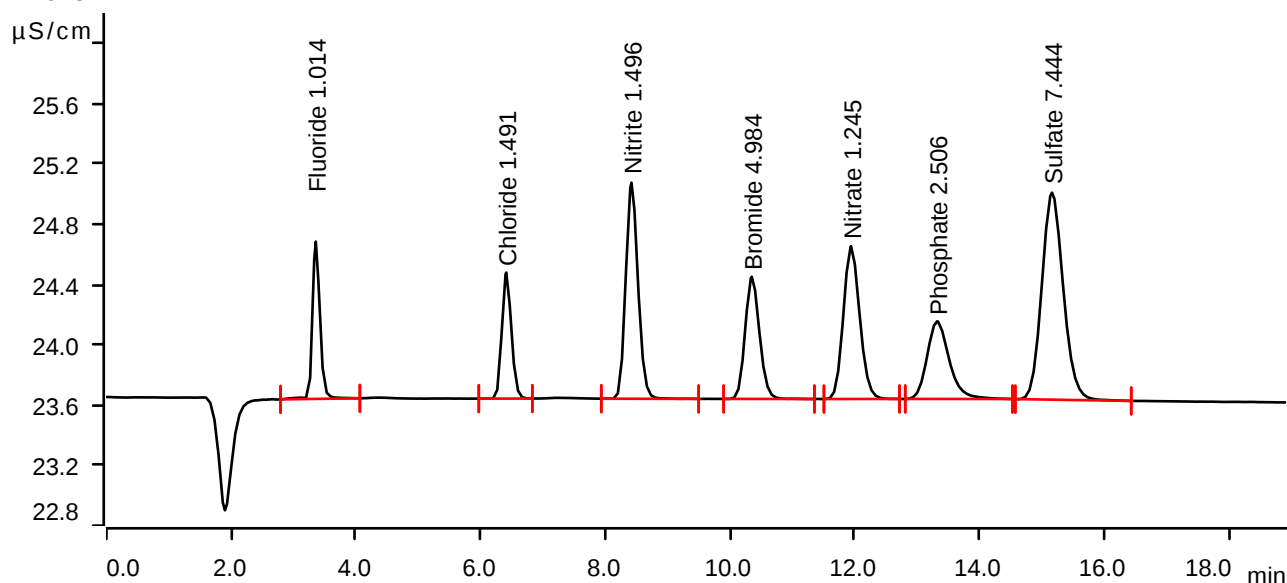
Sample data

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

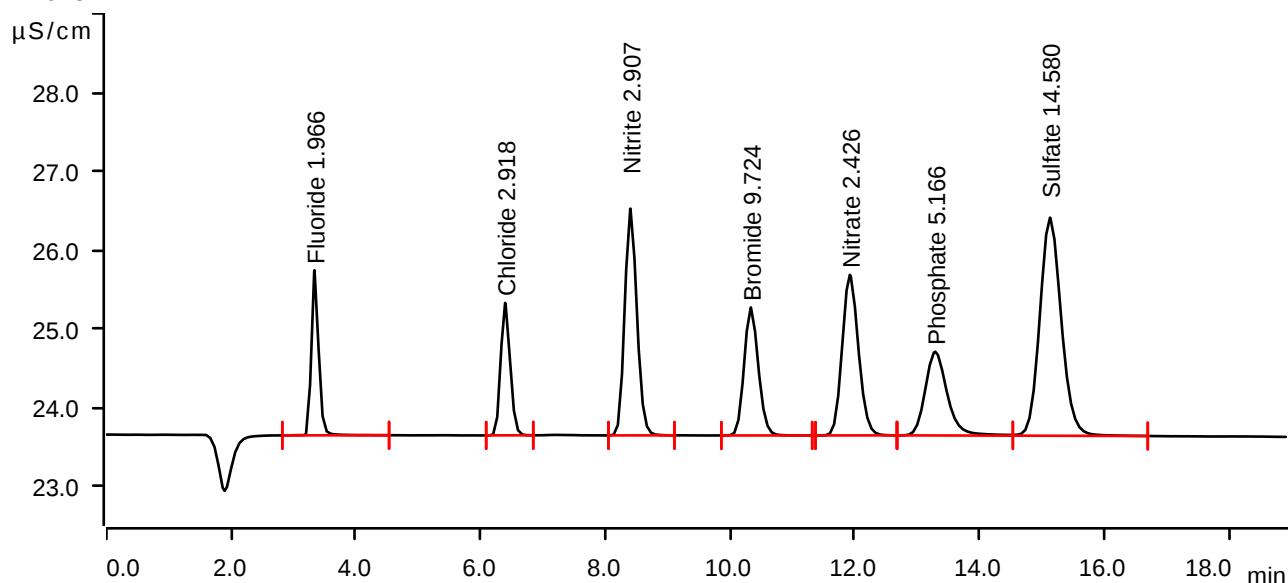
Sample data

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

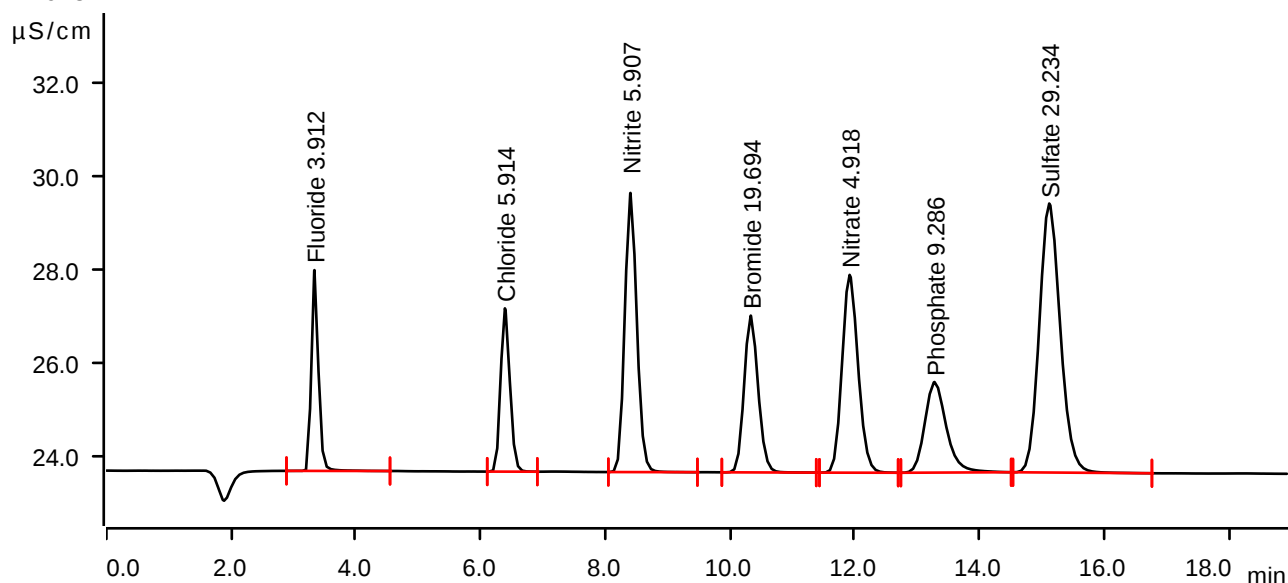
Sample data

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

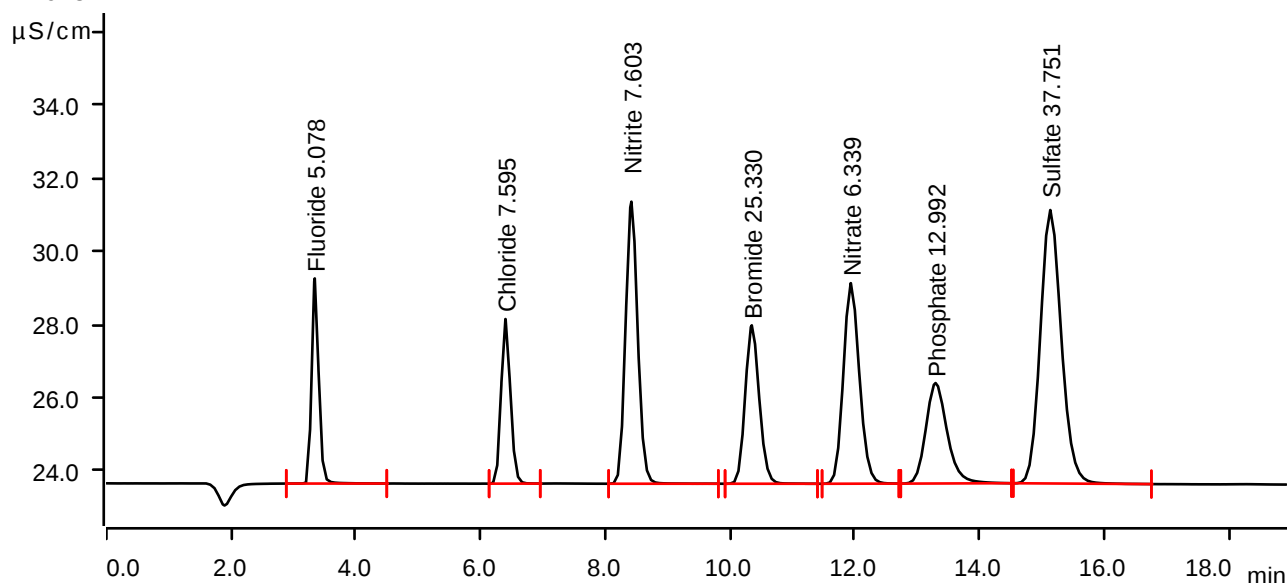
Sample data

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

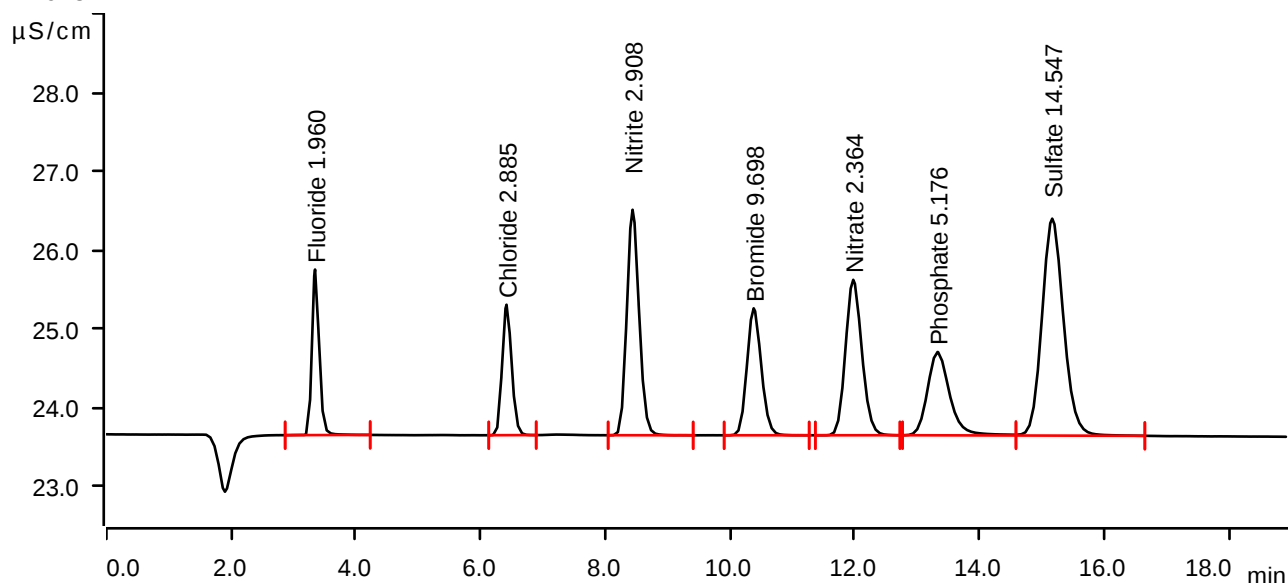
Sample data

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



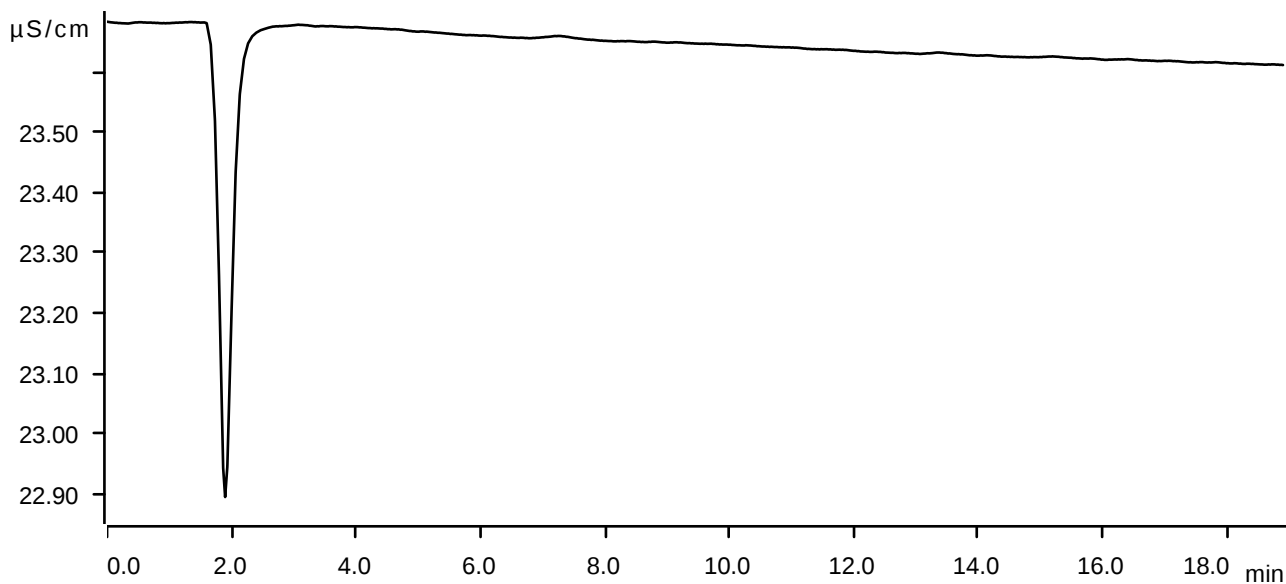
Peak number	Retention time min	Area (µS/cm) x min	Height µS/cm	Concentration ppm	Component name
1	3.347	0.2837	2.100	1.960	Fluoride
2	6.417	0.2929	1.656	2.885	Chloride
3	8.437	0.6536	2.862	2.908	Nitrite
4	10.378	0.4292	1.611	9.698	Bromide
5	11.975	0.6003	1.973	2.364	Nitrate
6	13.327	0.4351	1.058	5.176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

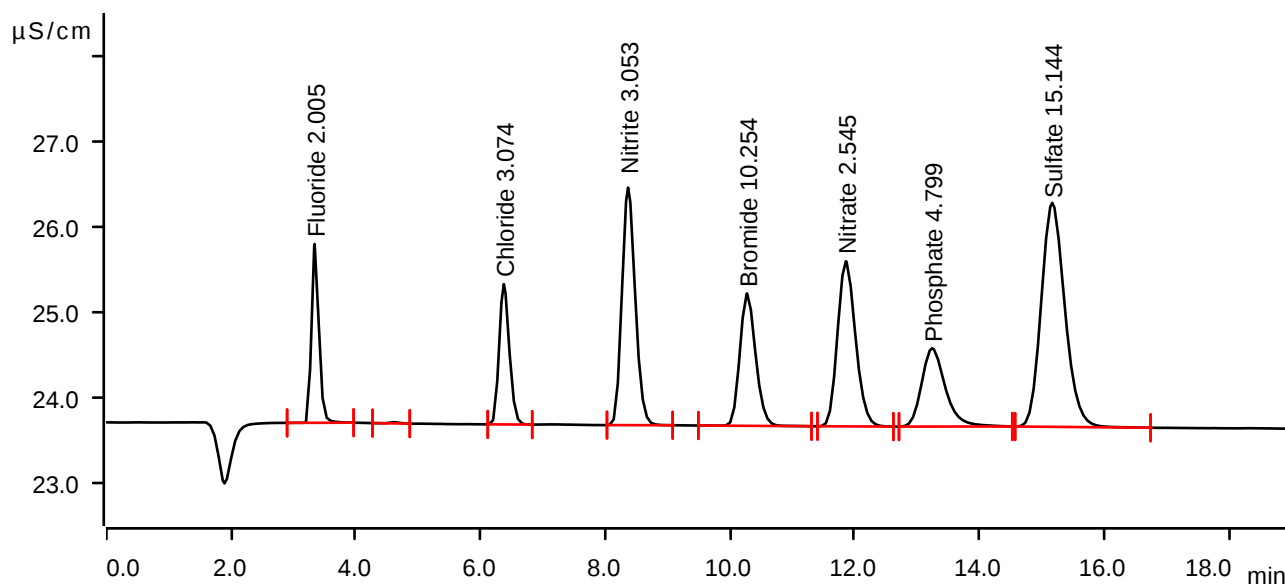
Sample data

Ident CCV
Sample type Check standard 1
Determination start 2025-11-04 16:16:07 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



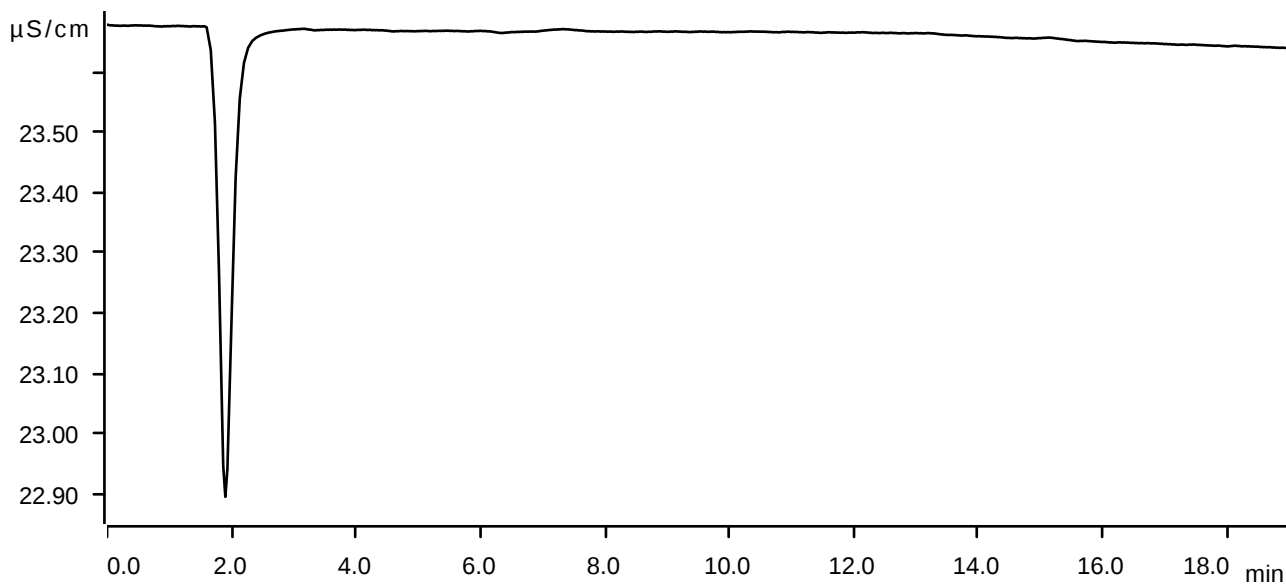
Peak number	Retention time min	Area ($\mu\text{S/cm}$) x min	Height $\mu\text{S/cm}$	Concentration ppm	Component name
1	3.340	0.2903	2.095	2.005	Fluoride
2	4.625	0.0025	0.014	invalid	
3	6.373	0.3125	1.644	3.074	Chloride
4	8.365	0.6871	2.783	3.053	Nitrite
5	10.273	0.4543	1.551	10.254	Bromide
6	11.857	0.6475	1.935	2.545	Nitrate
7	13.240	0.4035	0.917	4.799	Phosphate
8	15.165	1.1517	2.624	15.144	Sulfate

Sample data

Ident CCB
Sample type Sample
Determination start 2025-11-04 16:37:38 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

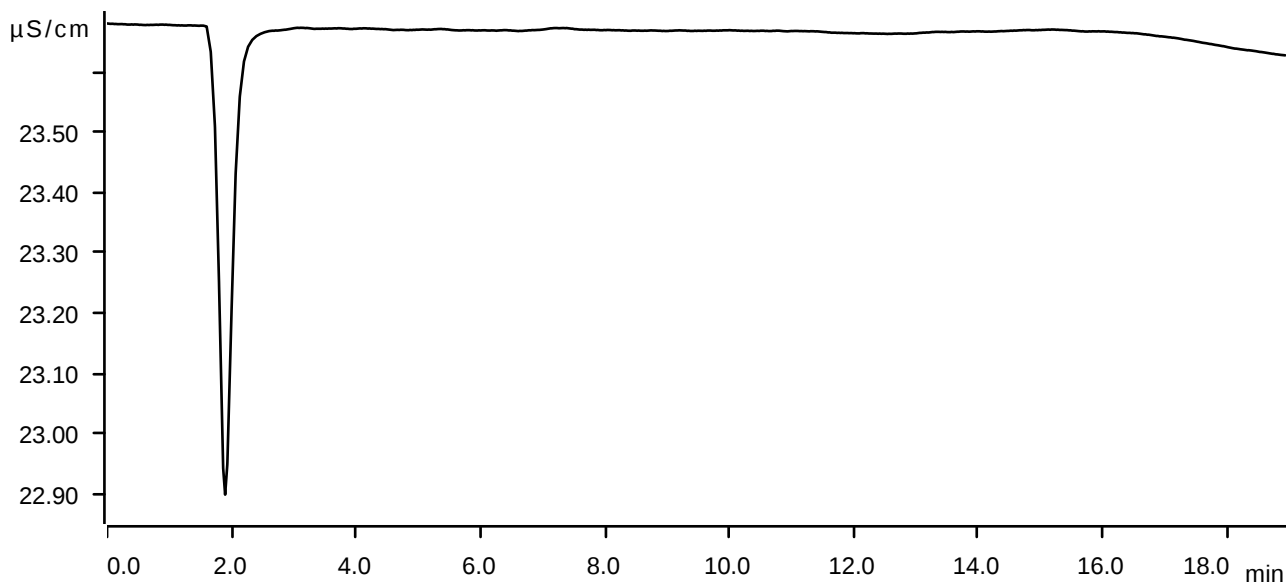
Anions

Sample data

Ident LB137763BLW
Sample type Sample
Determination start 2025-11-04 16:59:08 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

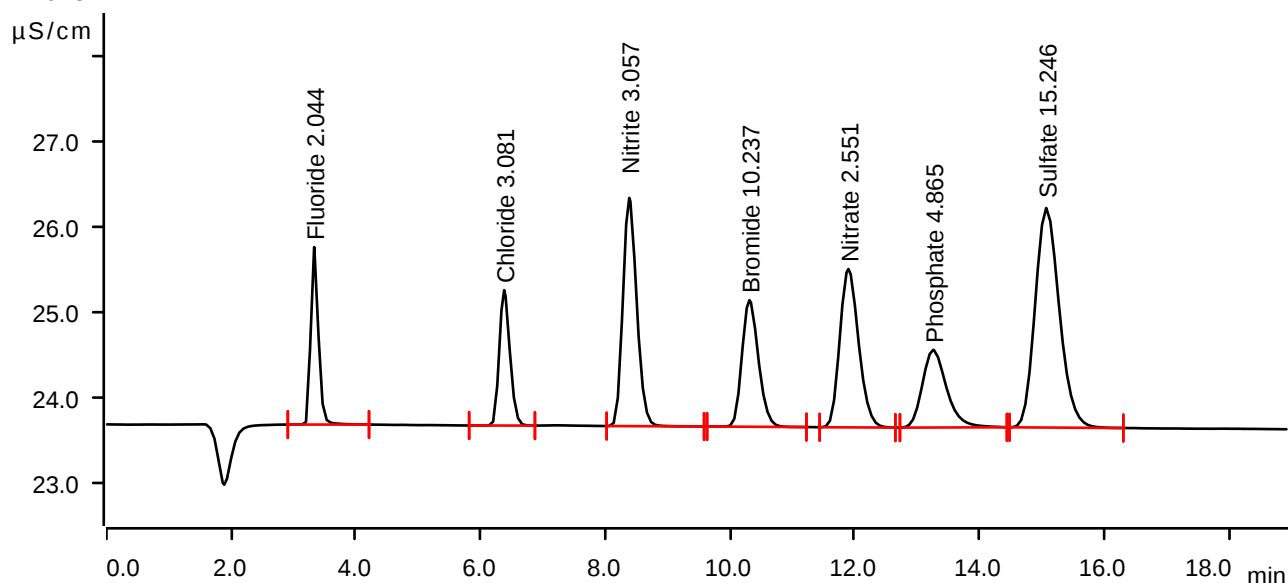
Sample data

Ident LB137763BSW
Sample type Check standard 1
Determination start 2025-11-04 17:20:40 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 12.73 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	3.332	0.2960	2.079	2.044	Fluoride
2	6.378	0.3133	1.587	3.081	Chloride
3	8.383	0.6881	2.674	3.057	Nitrite
4	10.310	0.4536	1.483	10.237	Bromide
5	11.897	0.6491	1.856	2.551	Nitrate
6	13.257	0.4090	0.910	4.865	Phosphate
7	15.070	1.1597	2.571	15.246	Sulfate

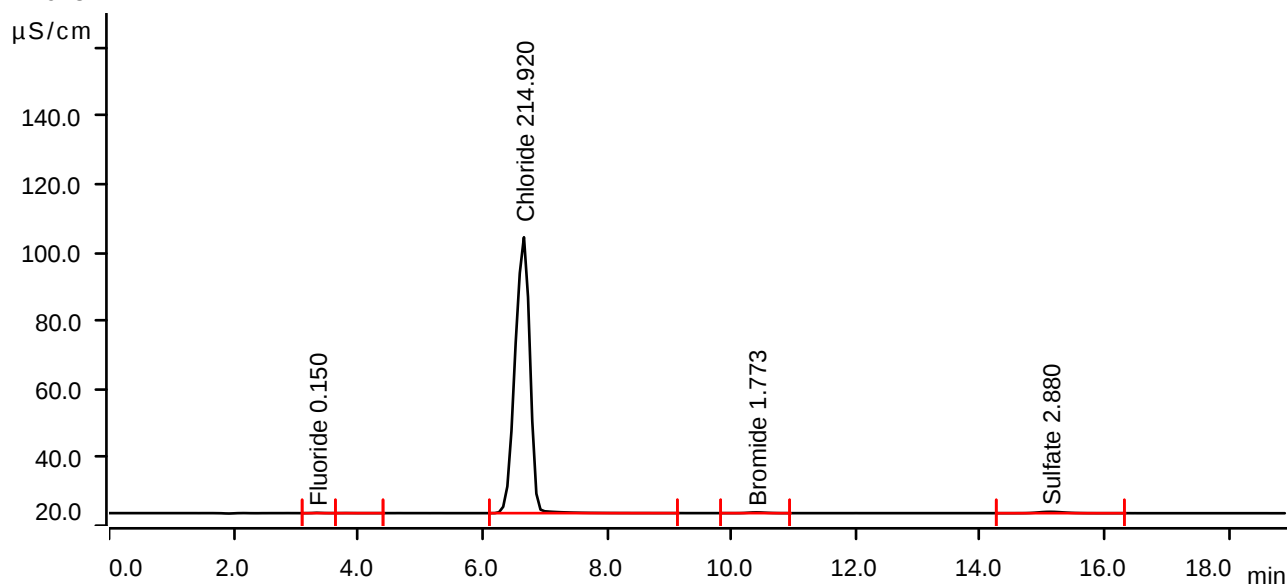
Sample data

Ident Q3534-01
Sample type Sample
Determination start 2025-11-04 18:03:33 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 12.61 MPa
Maximum pressure monitored yes
Temperature ---- °C

Anions



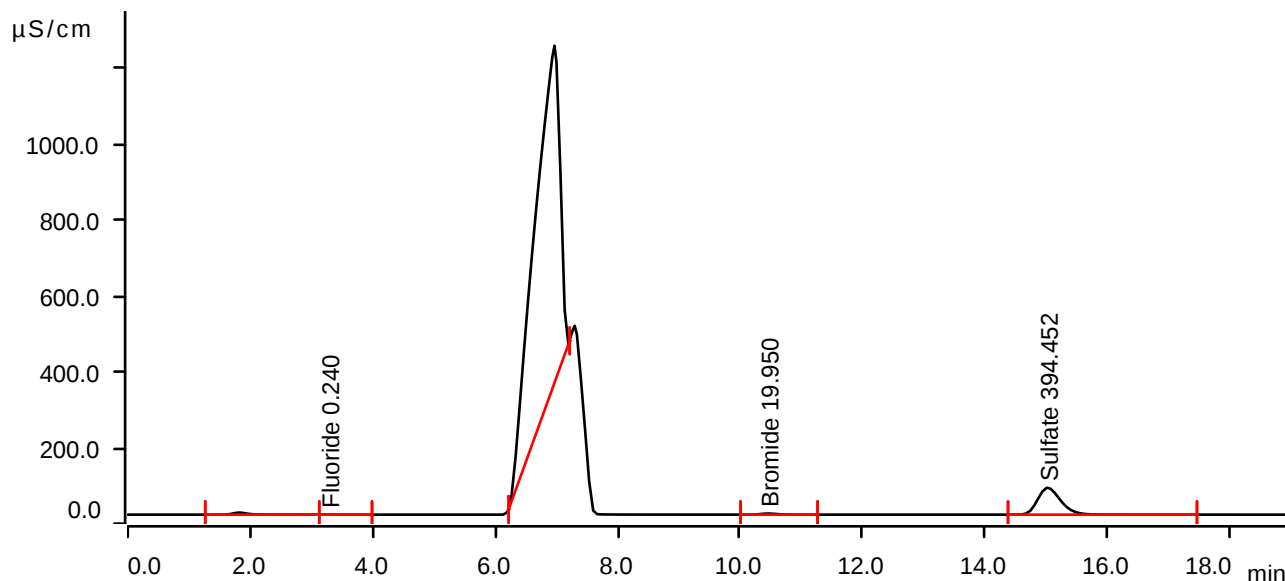
Peak number	Retention time min	Area (µS/cm) x min	Height µS/cm	Concentration ppm	Component name
1	3.342	0.0183	0.106	0.150	Fluoride
2	3.818	0.0072	0.025	invalid	
3	6.668	22.3468	80.793	214.920	Chloride
4	10.402	0.0713	0.224	1.773	Bromide
5	15.125	0.1913	0.401	2.880	Sulfate

Sample data

Ident Q3534-02
Sample type Sample
Determination start 2025-11-04 18:25:06 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 12.61 MPa
Maximum pressure monitored yes
Temperature ---- °C

Anions

Peak number	Retention time min	Area (µS/cm) x min	Height µS/cm	Concentration ppm	Component name
1	1.818	1.5853	5.541	invalid	
2	3.292	0.0315	0.135	0.240	Fluoride
3	6.968	443.3660	888.435	invalid	
4	10.460	0.8922	2.890	19.950	Bromide
5	15.022	30.8546	70.760	394.452	Sulfate

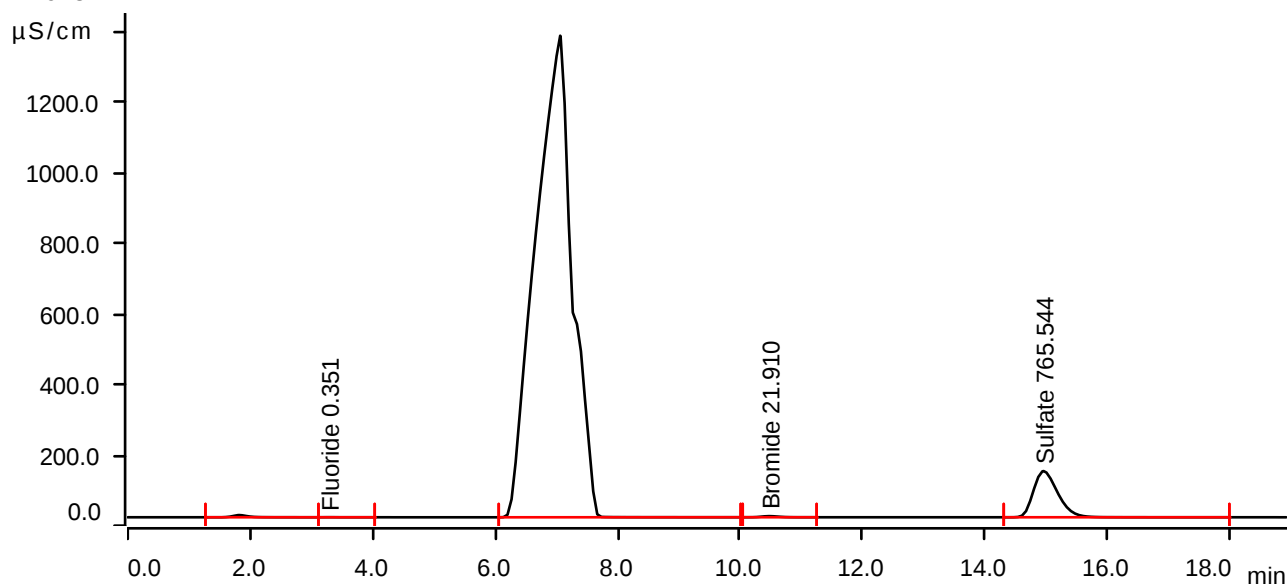
Sample data

Ident Q3534-03
Sample type Sample
Determination start 2025-11-04 18:46:40 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 12.61 MPa
Maximum pressure monitored yes
Temperature ---- °C

Anions



Peak number	Retention time min	Area (µS/cm) x min	Height µS/cm	Concentration ppm	Component name
1	1.822	1.7942	6.197	invalid	
2	3.285	0.0479	0.209	0.351	Fluoride
3	7.062	944.7468	1363.204	invalid	
4	10.477	0.9807	3.112	21.910	Bromide
5	14.953	59.9140	130.829	765.544	Sulfate

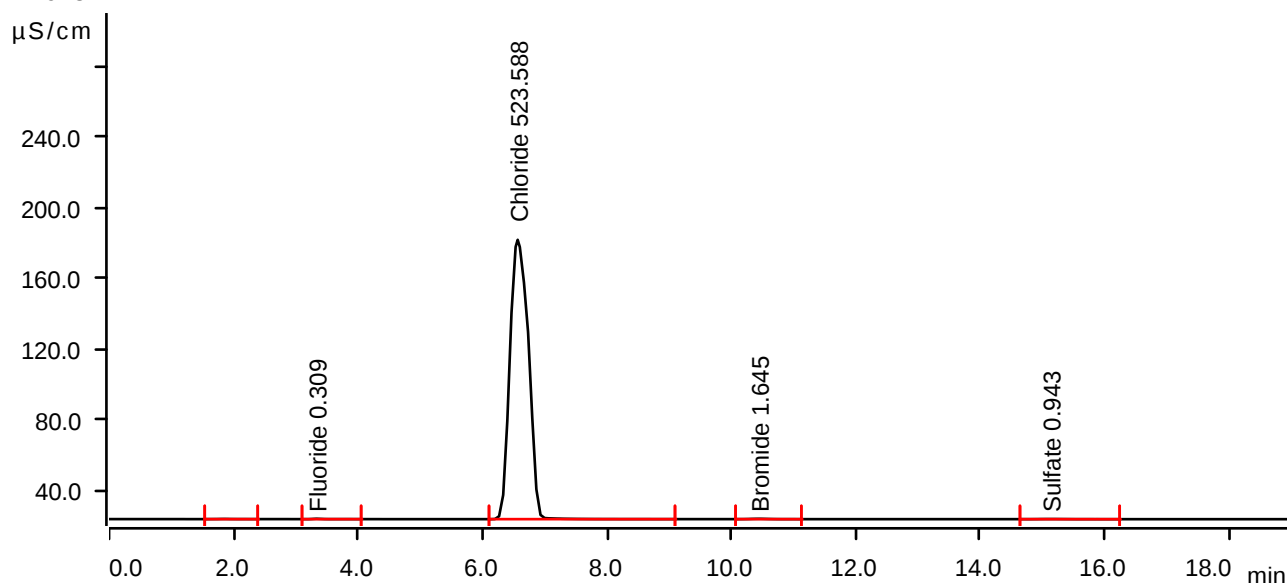
Sample data

Ident Q3534-04
Sample type Sample
Determination start 2025-11-04 19:08:14 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 13.01 MPa
Maximum pressure monitored yes
Temperature ---- °C

Anions



Peak number	Retention time min	Area (µS/cm) x min	Height µS/cm	Concentration ppm	Component name
1	1.842	0.0282	0.100	invalid	
2	3.337	0.0416	0.230	0.309	Fluoride
3	6.567	54.4516	158.169	523.588	Chloride
4	10.440	0.0655	0.202	1.645	Bromide
5	15.128	0.0396	0.081	0.943	Sulfate

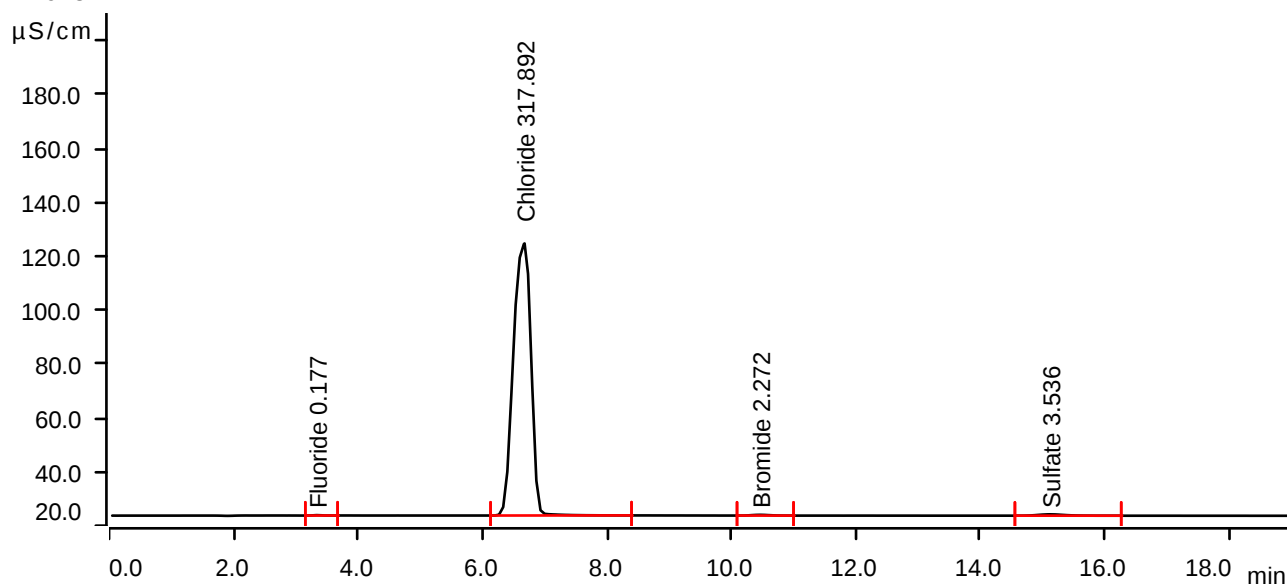
Sample data

Ident Q3534-05
Sample type Sample
Determination start 2025-11-04 19:29:49 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 12.73 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	0.0223	0.147	0.177	Fluoride
2	6.678	33.0570	100.913	317.892	Chloride
3	10.460	0.0939	0.288	2.272	Bromide
4	15.125	0.2427	0.498	3.536	Sulfate

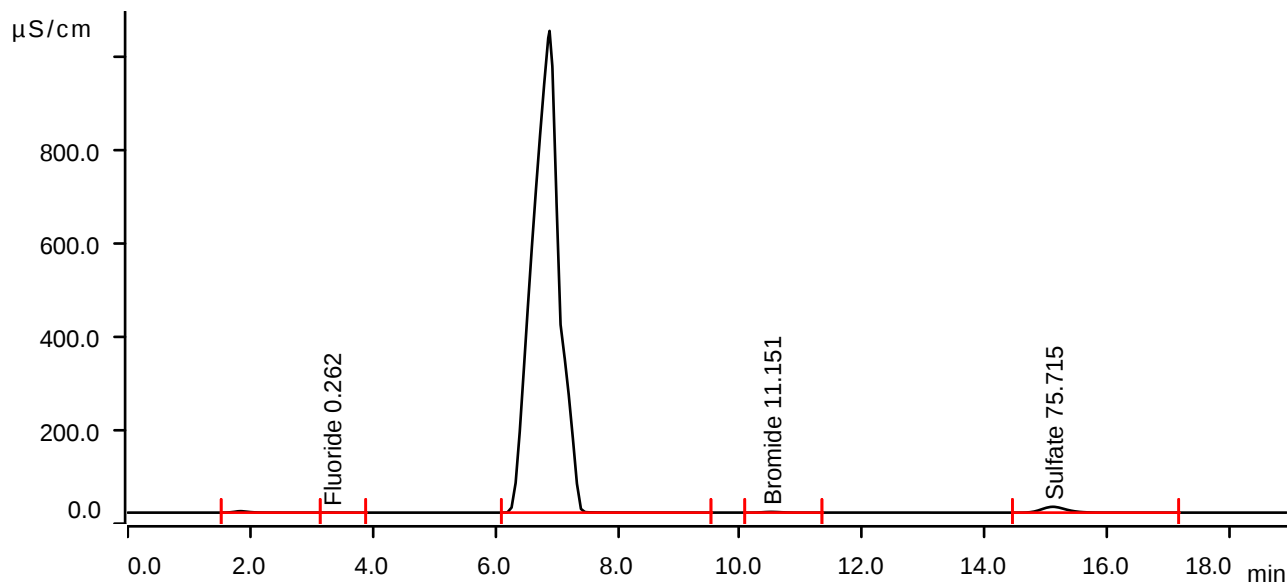
Sample data

Ident Q3534-06
Sample type Sample
Determination start 2025-11-04 19:51:23 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 12.67 MPa
Maximum pressure monitored yes
Temperature ---- °C

Anions



Peak number	Retention time min	Area (µS/cm) x min	Height µS/cm	Concentration ppm	Component name
1	1.842	0.8957	3.129	invalid	
2	3.322	0.0348	0.190	0.262	Fluoride
3	6.888	525.1935	1034.474	invalid	
4	10.507	0.4949	1.519	11.151	Bromide
5	15.105	5.8949	12.545	75.715	Sulfate

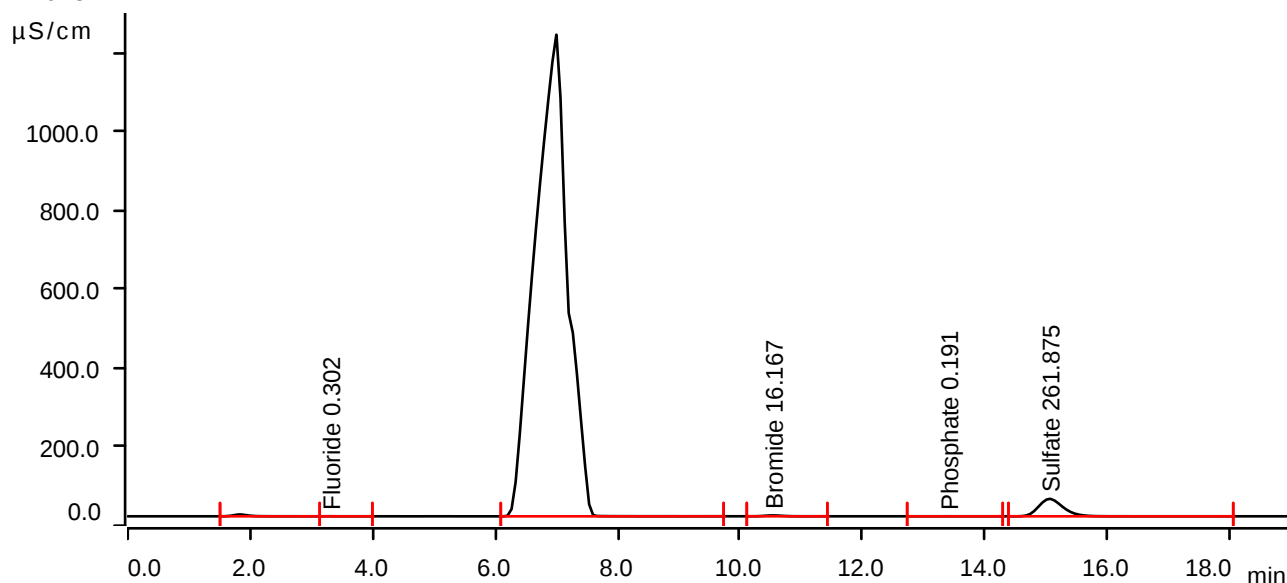
Sample data

Ident Q3534-07
Sample type Sample
Determination start 2025-11-04 20:12:57 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 12.84 MPa
Maximum pressure monitored yes
Temperature ---- °C

Anions



Peak number	Retention time min	Area (µS/cm) x min	Height µS/cm	Concentration ppm	Component name
1	1.827	1.3599	4.691	invalid	
2	3.303	0.0406	0.192	0.302	Fluoride
3	6.998	751.9070	1222.311	invalid	
4	10.532	0.7214	2.160	16.167	Bromide
5	13.350	0.0180	0.027	0.191	Phosphate
6	15.052	20.4727	44.251	261.875	Sulfate

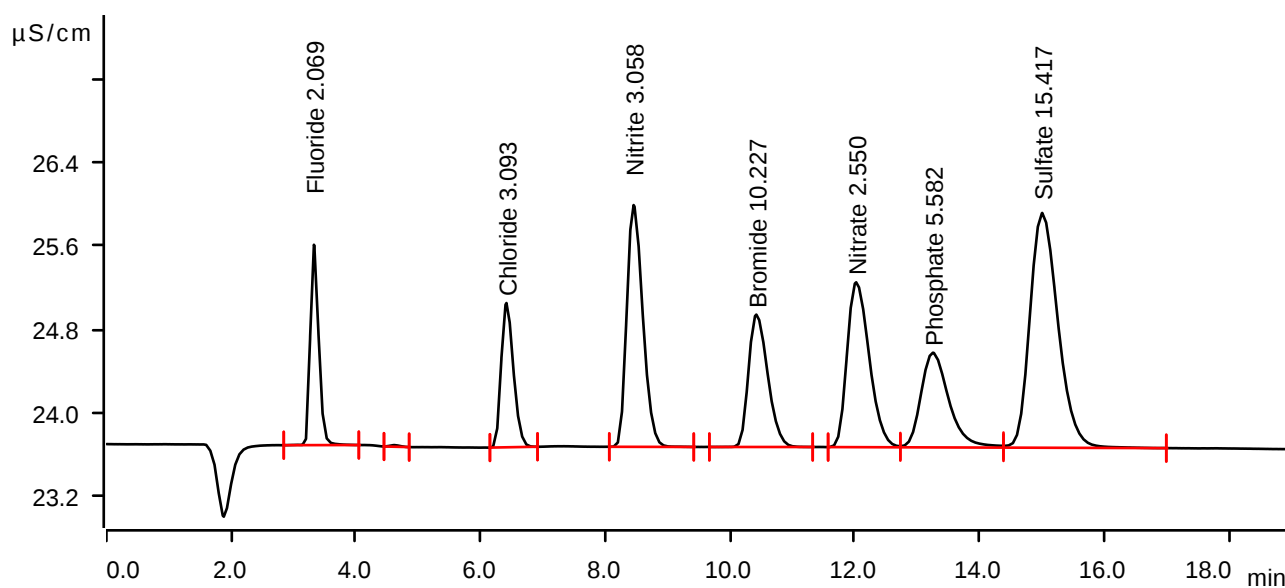
Sample data

Ident CCV
Sample type Check standard 1
Determination start 2025-11-04 21:17:33 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 12.78 MPa
Maximum pressure monitored yes
Temperature ---- °C

Anions



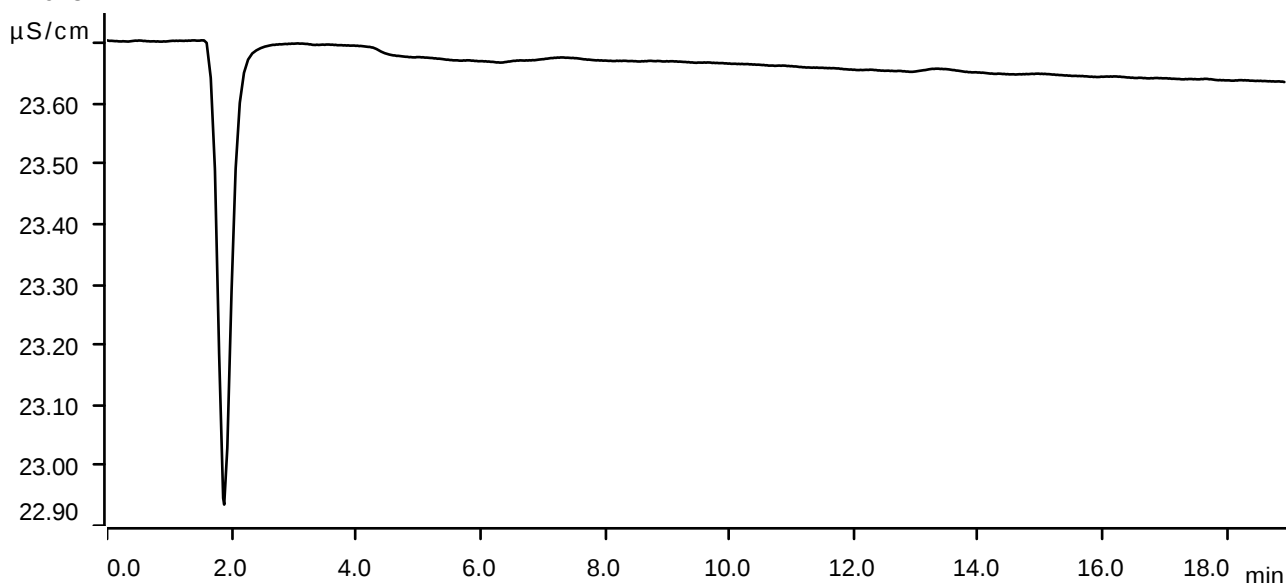
Peak number	Retention time min	Area ($\mu\text{S/cm}$) x min	Height $\mu\text{S/cm}$	Concentration ppm	Component name
1	3.328	0.2997	1.916	2.069	Fluoride
2	4.618	0.0028	0.016	invalid	
3	6.415	0.3145	1.380	3.093	Chloride
4	8.453	0.6885	2.313	3.058	Nitrite
5	10.422	0.4531	1.267	10.227	Bromide
6	12.022	0.6487	1.577	2.550	Nitrate
7	13.252	0.4690	0.906	5.582	Phosphate
8	15.005	1.1731	2.245	15.417	Sulfate

Sample data

Ident CCB
Sample type Sample
Determination start 2025-11-04 21:39:04 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 12.67 MPa
Maximum pressure monitored yes
Temperature ---- °C

Anions

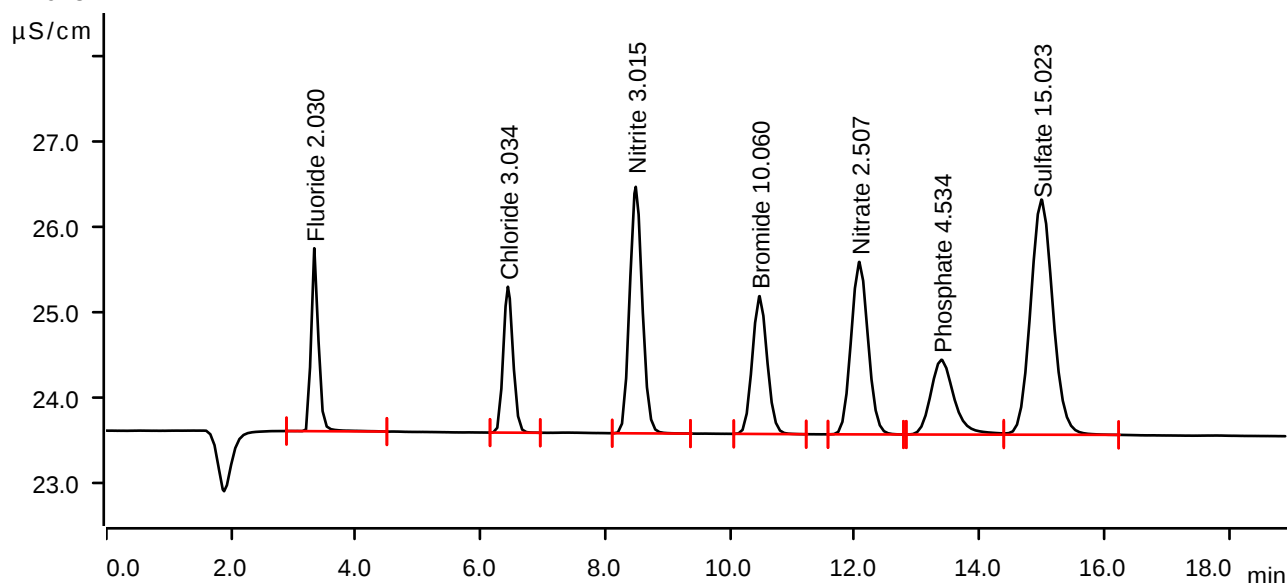
Sample data

Ident CCV
Sample type Check standard 1
Determination start 2025-11-05 09:50:12 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 12.78 MPa
Maximum pressure monitored yes
Temperature ---- °C

Anions



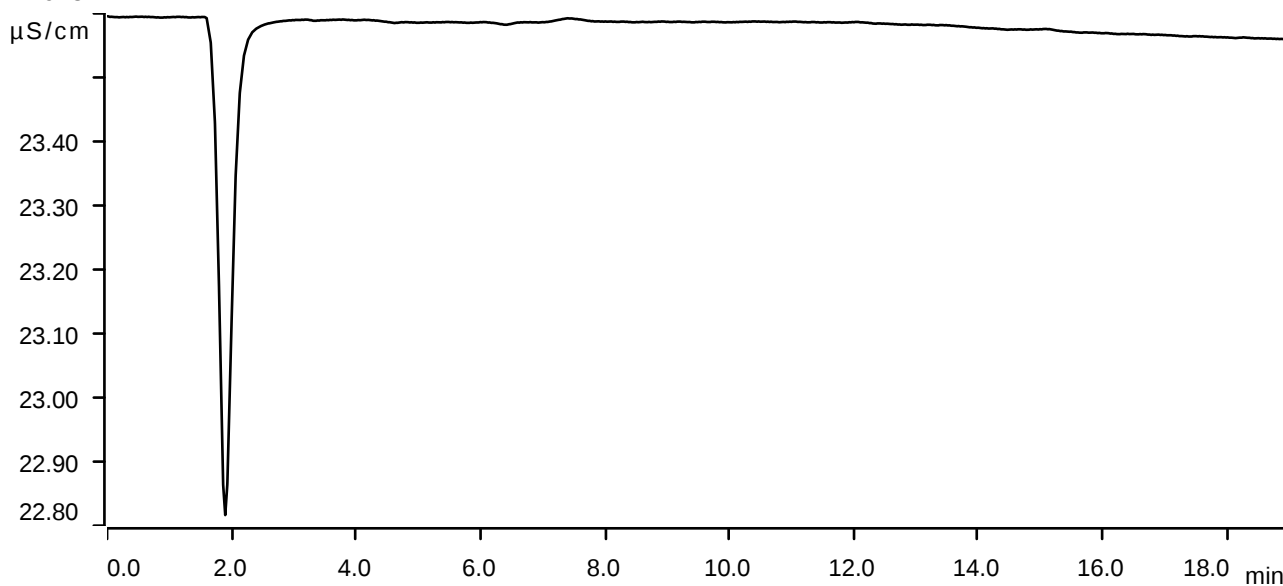
Peak number	Retention time min	Area (µS/cm) x min	Height µS/cm	Concentration ppm	Component name
1	3.333	0.2939	2.142	2.030	Fluoride
2	6.438	0.3084	1.709	3.034	Chloride
3	8.488	0.6784	2.888	3.015	Nitrite
4	10.473	0.4456	1.615	10.060	Bromide
5	12.073	0.6374	2.021	2.507	Nitrate
6	13.388	0.3814	0.876	4.534	Phosphate
7	14.992	1.1422	2.755	15.023	Sulfate

Sample data

Ident CCB
Sample type Sample
Determination start 2025-11-05 10:11:42 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 12.56 MPa
Maximum pressure monitored yes
Temperature ---- °C

Anions

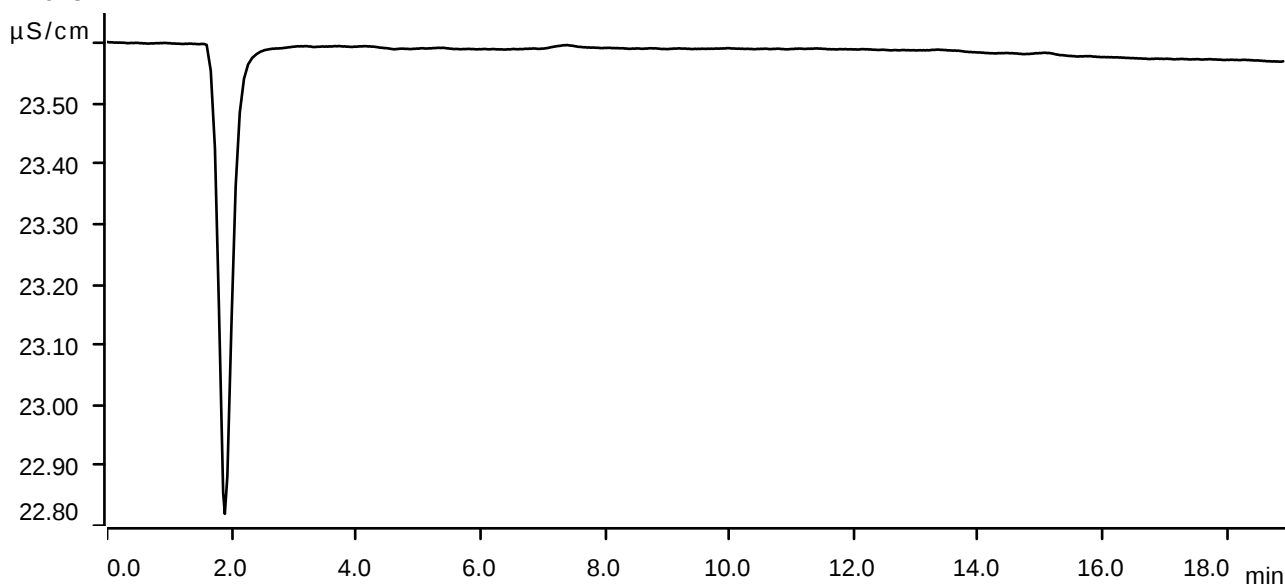
Sample data

Ident LB137763BLW2
Sample type Sample
Determination start 2025-11-05 10:33:12 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 12.50 MPa
Maximum pressure monitored yes
Temperature ---- °C

Anions



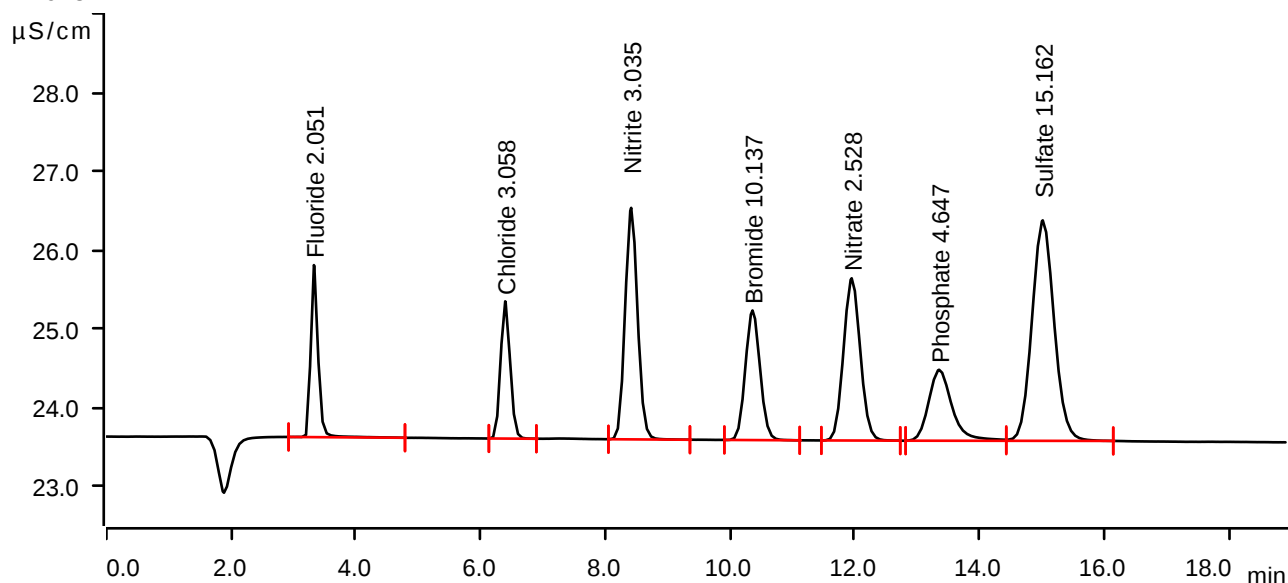
Sample data

Ident LB137763BSW2
Sample type Check standard 1
Determination start 2025-11-05 10:54:44 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	3.328	0.2970	2.183	2.051	Fluoride
2	6.395	0.3109	1.741	3.058	Chloride
3	8.415	0.6830	2.938	3.035	Nitrite
4	10.360	0.4491	1.645	10.137	Bromide
5	11.950	0.6430	2.059	2.528	Nitrate
6	13.352	0.3908	0.901	4.647	Phosphate
7	15.013	1.1531	2.798	15.162	Sulfate

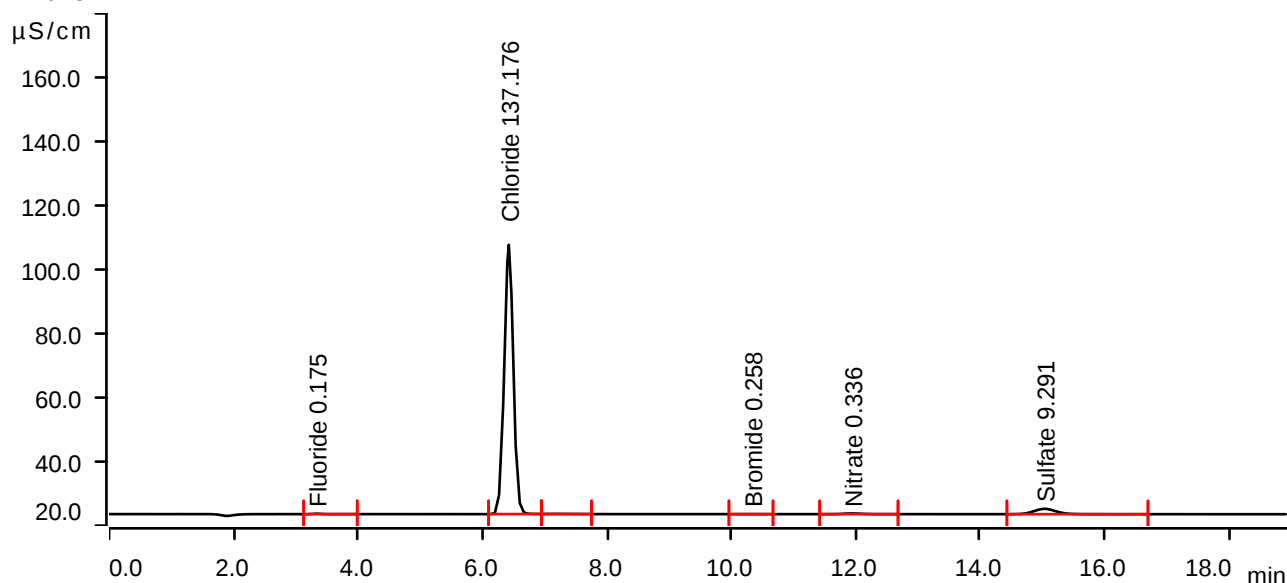
Sample data

Ident Q3537-03
Sample type Sample
Determination start 2025-11-05 11:16:16 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 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	3.333	0.0221	0.150	0.175	Fluoride
2	6.425	14.2606	84.114	137.176	Chloride
3	7.187	0.0123	0.032	invalid	
4	10.337	0.0029	0.010	0.258	Bromide
5	11.942	0.0713	0.226	0.336	Nitrate
6	15.033	0.6934	1.679	9.291	Sulfate

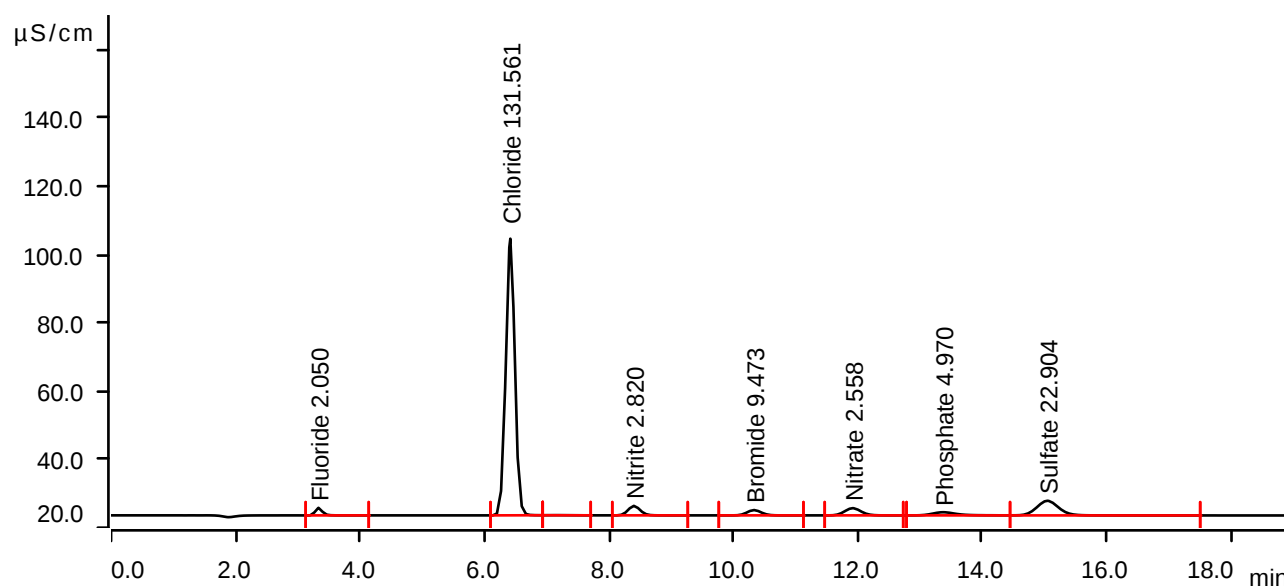
Sample data

Ident Q3537-03MS
Sample type Sample
Determination start 2025-11-05 11:37:49 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 ($\mu\text{S/cm}$) x min	Height $\mu\text{S/cm}$	Concentration ppm	Component name
1	3.332	0.2968	2.207	2.050	Fluoride
2	6.417	13.6766	81.012	131.561	Chloride
3	7.172	0.0121	0.033	invalid	
4	8.403	0.6334	2.770	2.820	Nitrite
5	10.333	0.4191	1.554	9.473	Bromide
6	11.918	0.6509	2.110	2.558	Nitrate
7	13.372	0.4179	0.929	4.970	Phosphate
8	15.047	1.7593	4.286	22.904	Sulfate

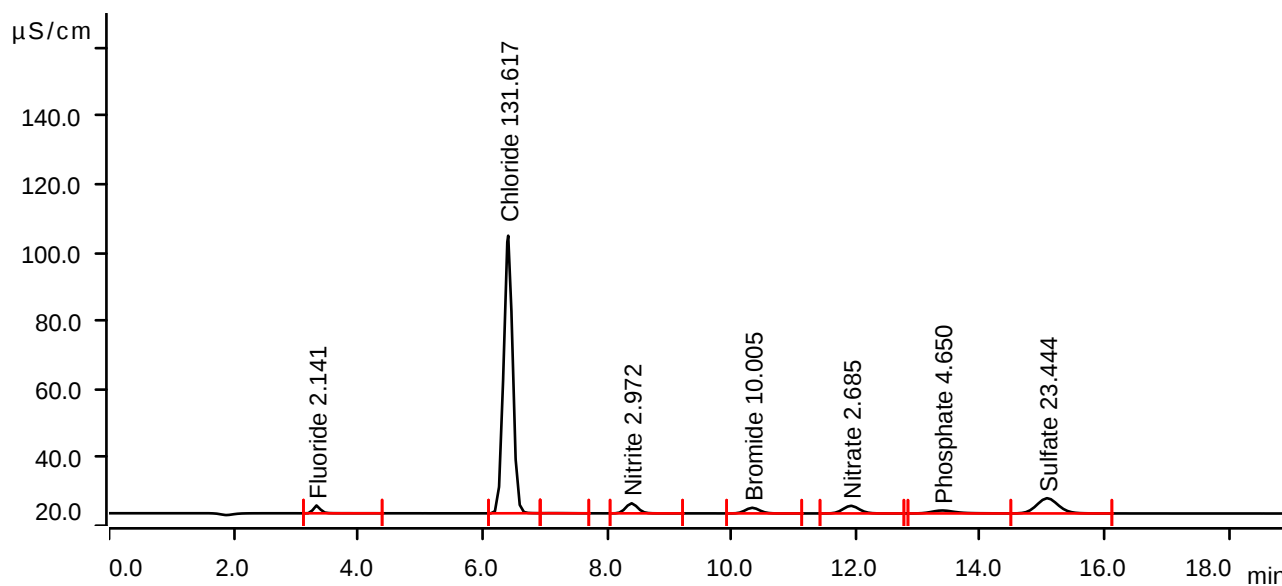
Sample data

Ident Q3537-03MSD
Sample type Sample
Determination start 2025-11-05 11:59:23 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 ($\mu\text{S/cm}$) x min	Height $\mu\text{S/cm}$	Concentration ppm	Component name
1	3.333	0.3103	2.288	2.141	Fluoride
2	6.415	13.6825	81.283	131.617	Chloride
3	7.170	0.0120	0.033	invalid	
4	8.397	0.6685	2.928	2.972	Nitrite
5	10.338	0.4431	1.639	10.005	Bromide
6	11.922	0.6841	2.218	2.685	Nitrate
7	13.388	0.3911	0.863	4.650	Phosphate
8	15.077	1.8017	4.441	23.444	Sulfate

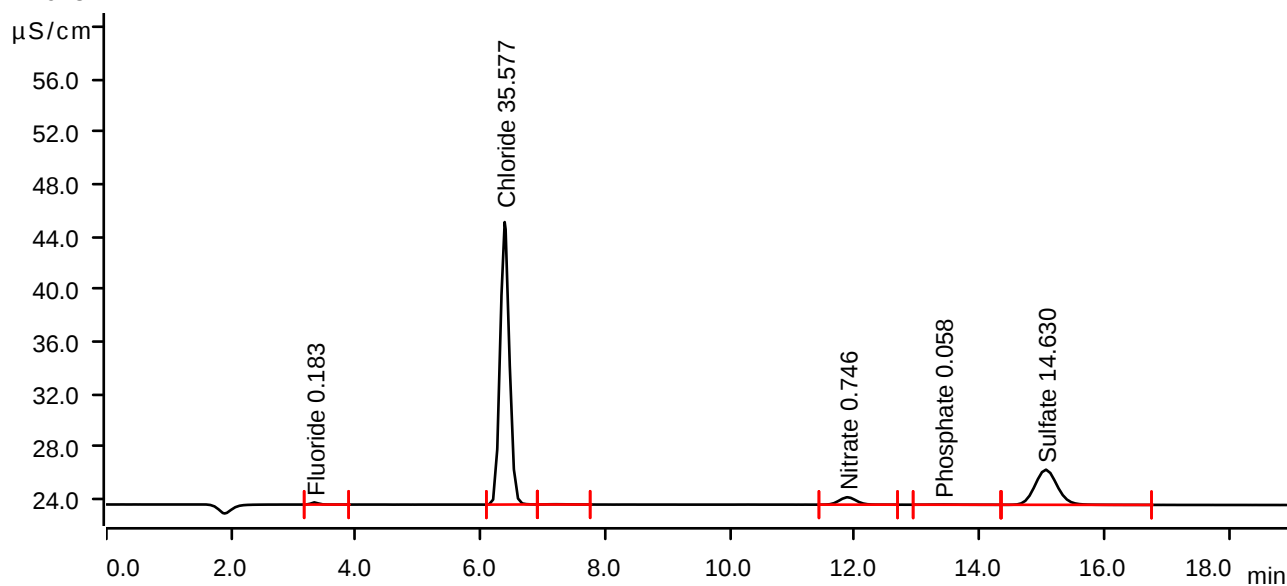
Sample data

Ident Q3541-01
Sample type Sample
Determination start 2025-11-05 12:20:58 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	3.335	0.0231	0.165	0.183	Fluoride
2	6.387	3.6933	21.507	35.577	Chloride
3	7.220	0.0069	0.017	invalid	
4	11.885	0.1781	0.562	0.746	Nitrate
5	13.408	0.0068	0.013	0.058	Phosphate
6	15.063	1.1114	2.672	14.630	Sulfate

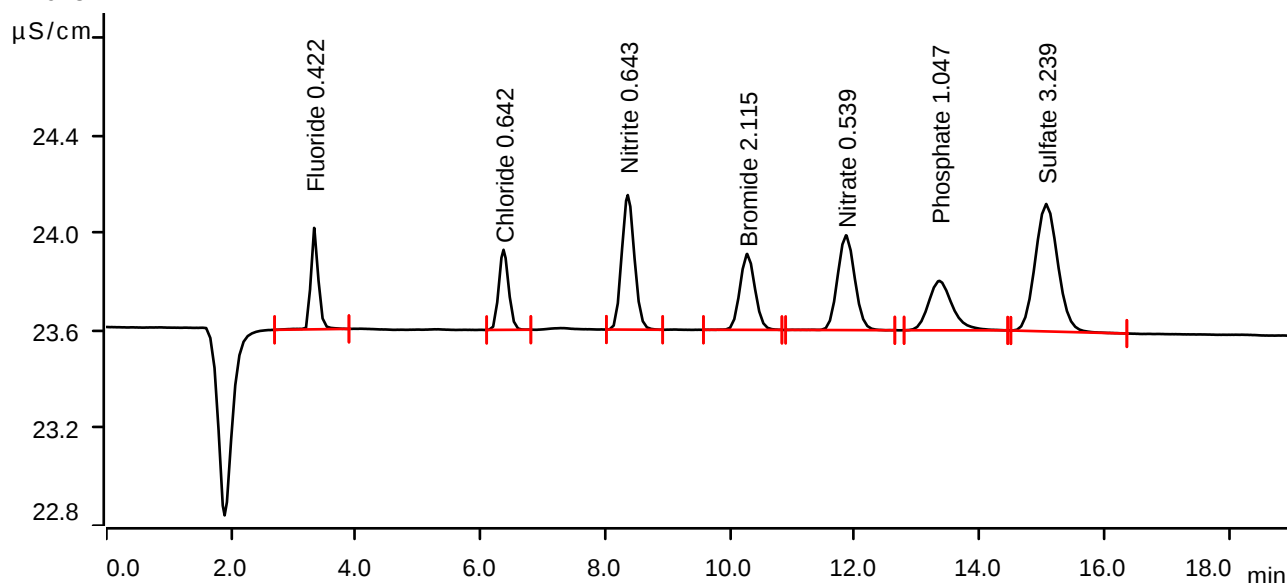
Sample data

Ident Q3530-08
Sample type Sample
Determination start 2025-11-05 12:42:33 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	3.332	0.0582	0.416	0.422	Fluoride
2	6.368	0.0597	0.328	0.642	Chloride
3	8.360	0.1298	0.552	0.643	Nitrite
4	10.275	0.0868	0.311	2.115	Bromide
5	11.858	0.1243	0.389	0.539	Nitrate
6	13.358	0.0896	0.203	1.047	Phosphate
7	15.070	0.2195	0.522	3.239	Sulfate

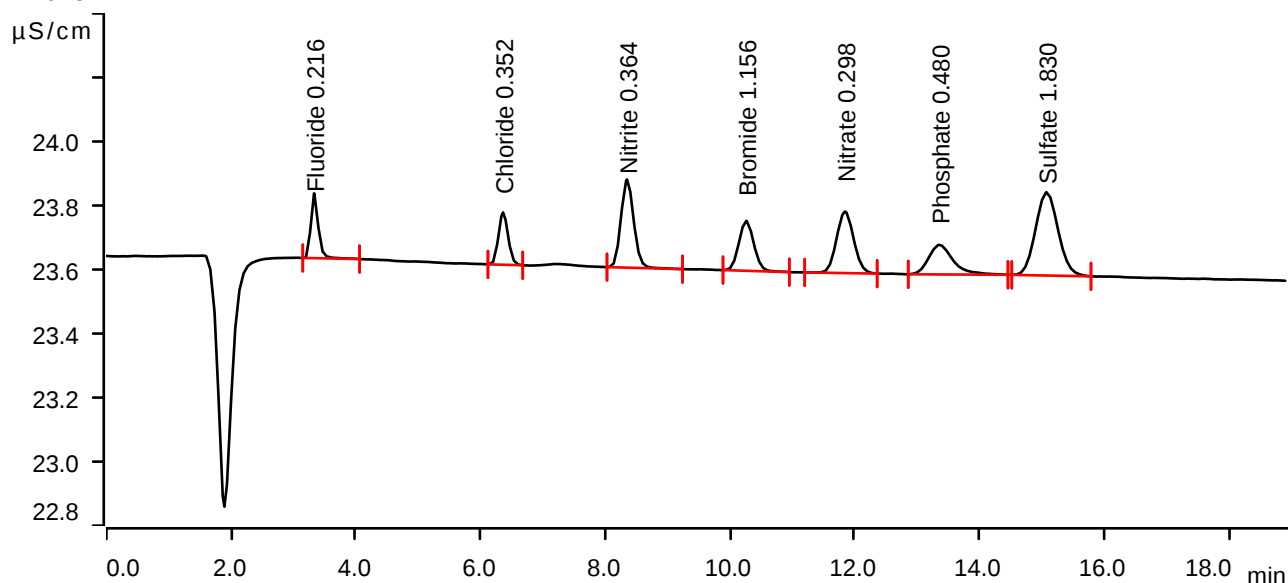
Sample data

Ident Q3530-07
Sample type Sample
Determination start 2025-11-05 13:04:07 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 12.16 MPa
Maximum pressure monitored yes
Temperature ---- °C

Anions



Peak number	Retention time min	Area (µS/cm) x min	Height µS/cm	Concentration ppm	Component name
1	3.330	0.0280	0.202	0.216	Fluoride
2	6.360	0.0295	0.163	0.352	Chloride
3	8.348	0.0655	0.275	0.364	Nitrite
4	10.260	0.0435	0.156	1.156	Bromide
5	11.842	0.0614	0.192	0.298	Nitrate
6	13.353	0.0422	0.092	0.480	Phosphate
7	15.072	0.1091	0.260	1.830	Sulfate

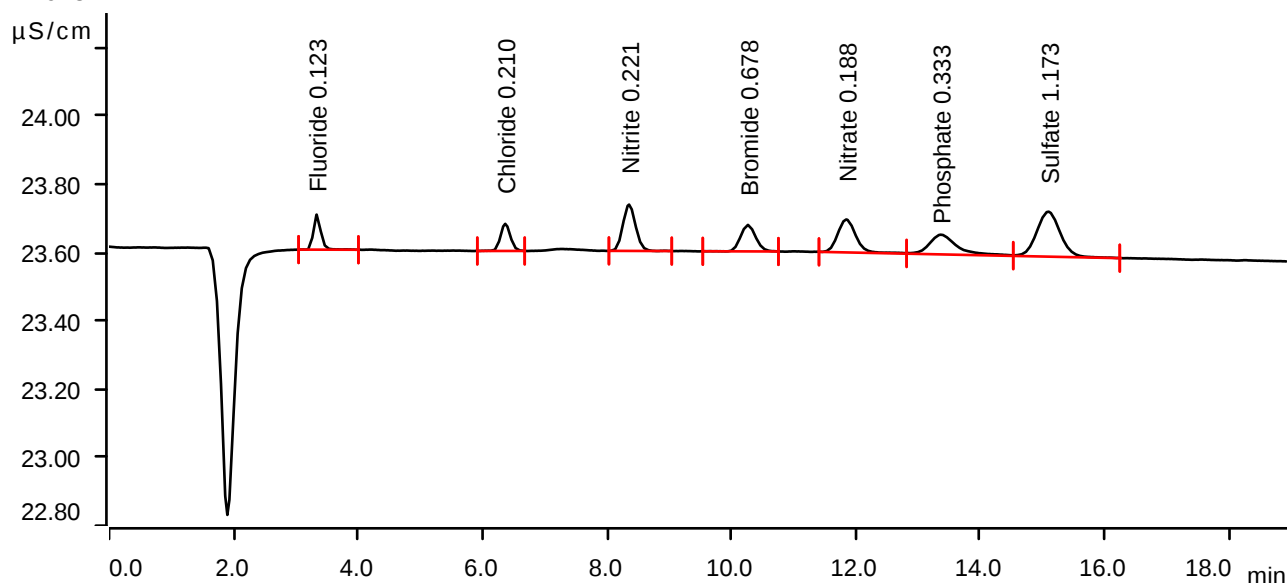
Sample data

Ident Q3530-07RE 0.25ML
Sample type Sample
Determination start 2025-11-05 13:25:41 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 12.11 MPa
Maximum pressure monitored yes
Temperature ---- °C

Anions



Peak number	Retention time min	Area (µS/cm) x min	Height µS/cm	Concentration ppm	Component name
1	3.337	0.0144	0.103	0.123	Fluoride
2	6.367	0.0147	0.079	0.210	Chloride
3	8.357	0.0323	0.136	0.221	Nitrite
4	10.268	0.0219	0.077	0.678	Bromide
5	11.847	0.0327	0.097	0.188	Nitrate
6	13.363	0.0298	0.058	0.333	Phosphate
7	15.100	0.0576	0.132	1.173	Sulfate

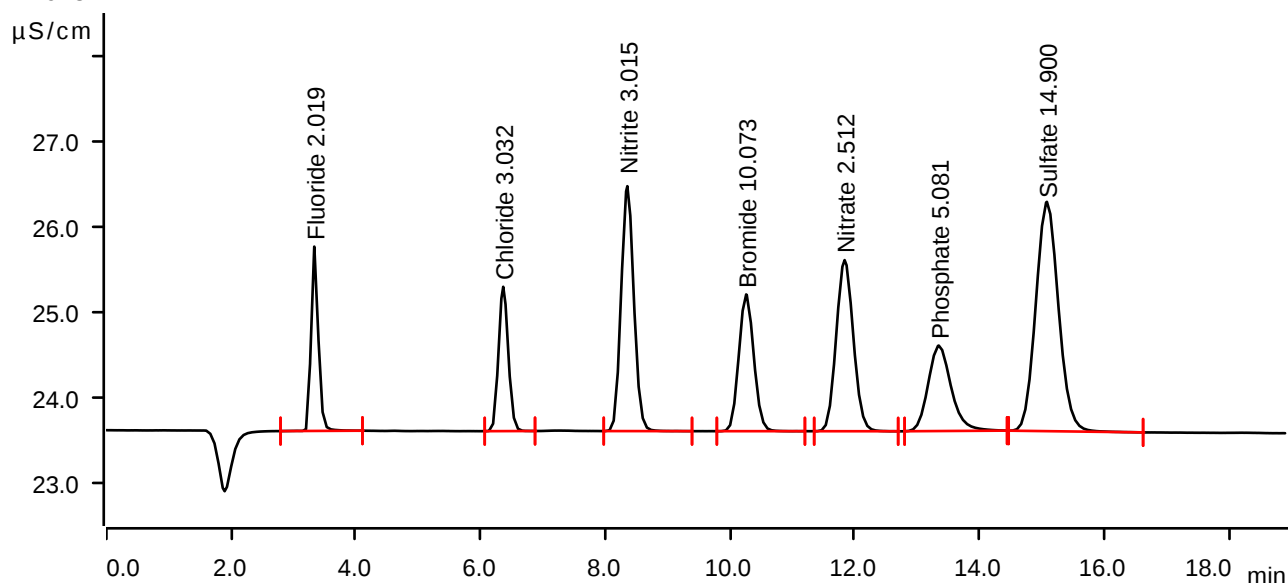
Sample data

Ident CCV
Sample type Check standard 1
Determination start 2025-11-05 13:47:07 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 12.16 MPa
Maximum pressure monitored yes
Temperature ---- °C

Anions



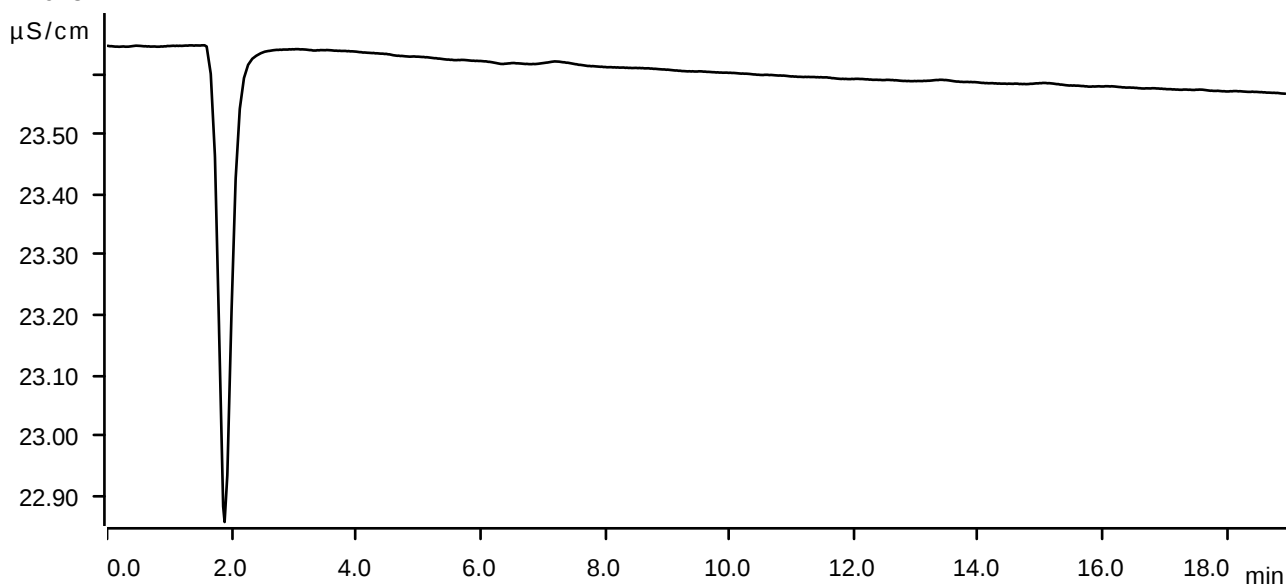
Peak number	Retention time min	Area (µS/cm) x min	Height µS/cm	Concentration ppm	Component name
1	3.335	0.2924	2.158	2.019	Fluoride
2	6.363	0.3082	1.690	3.032	Chloride
3	8.353	0.6783	2.869	3.015	Nitrite
4	10.258	0.4462	1.602	10.073	Bromide
5	11.837	0.6389	2.005	2.512	Nitrate
6	13.347	0.4271	1.001	5.081	Phosphate
7	15.080	1.1326	2.686	14.900	Sulfate

Sample data

Ident CCB
Sample type Sample
Determination start 2025-11-05 14:08:40 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

Analysis Method: 7196A

ANALYST: rubina

Parameter: ~~Hexavalent Chromium~~

SUPERVISOR REVIEW BY: Iwona

Run Number: LB137766

pH Meter ID: WC pH Meter-1

Reagent/Standard	Lot/Log #
Calibration Std. hexchrome 0.1 ppm	WP115461
Calibration Std. hexchrome 0.05 ppm	WP115460
calibration std. hexchrome 0.01 ppm	WP115458
calibration std. hexchrome 0 ppm	WP115457
hexavalent chromium color reagent	WP115393
5N sulfuric acid	WP115340
HEX LOD STD, 0.005PPM	WP115465
Hex LOQ Std, 0.01PPM	WP115466
Calibration Std Hexachrome 0.025 ppm	WP115459
Hexavalent Chromium ICV-LCS Std	WP115464
Calibration and CCV std HexChrome 0.5PPM	WP115462
Calibration std HexChrome 1.0PPM	WP115463

Intercept: 0.0002

Slope: 0.7843

Regression: 0.999992

Seq	Lab ID	True Value (mg/l)	DF	Initial Vol (ml)	Final Vol (ml)	pH HN03	pH H2SO4	Absorb.at 540nm		Absorbance Difference	Result (mg/L)	%D	Anal Date	Anal Time
								Backgrnd	Color					
1	CAL1	0	1	100	100		1.66	0.000	0.000	0.000	-0.00		11/04/2025	16:40
2	CAL2	0.01	1	100	100		1.74	0.000	0.007	0.007	0.008	-20	11/04/2025	16:40
3	CAL3	0.025	1	100	100		1.79	0.000	0.019	0.019	0.023	-8	11/04/2025	16:41
4	CAL4	0.05	1	100	100		1.84	0.000	0.039	0.039	0.049	-2	11/04/2025	16:41
5	CAL5	0.1	1	100	100		1.88	0.000	0.081	0.081	0.103	3	11/04/2025	16:42
6	CAL6	0.5	1	100	100		1.83	0.000	0.393	0.393	0.500	0	11/04/2025	16:42
7	CAL7	1	1	100	100		1.85	0.000	0.784	0.784	0.999	-0.1	11/04/2025	16:43

Analytical Summary Report

Analysis Method: 7196A

ANALYST:rubina

Parameter: Hexavalent Chromium

SUPERVISOR REVIEW BY:Iwona

Run Number: LB137766

pH Meter ID:WC pH Meter-1

Seq	Lab ID	True Value	DF	Initial Vol (ml/gm)	Final Vol (ml)	pH HN03	pH H2SO4	Absorb.at540nm		Absorbance Difference	Intermediate Result (mg/L)	Anal Date	Anal Time
								Backgrnd	Color				
1	ICV	0.5	1	100	100		1.90	0.000	0.391	0.391	0.498	11/04/2025	16:43
2	ICB		1	100	100		1.88	0.000	0.001	0.001	0.001	11/04/2025	16:44
3	CCV1	0.5	1	100	100		1.85	0.000	0.394	0.394	0.502	11/04/2025	16:44
4	CCB1		1	100	100		1.82	0.000	0.001	0.001	0.001	11/04/2025	16:45
5	RL Check	0.01	1	100	100		1.87	0.000	0.008	0.008	0.010	11/04/2025	16:45
6	lb137766BL		1	100	100		1.77	0.000	0.001	0.001	0.001	11/04/2025	16:46
7	lb137766BS	0.5	1	100	100		1.89	0.000	0.403	0.403	0.514	11/04/2025	16:46
8	Q3530-07		1	100	100		1.94	0.000	0.005	0.005	0.006	11/04/2025	16:47
9	Q3530-08		1	100	100		1.97	0.000	0.008	0.008	0.010	11/04/2025	16:47
10	Q3534-01		1	100	100		1.90	0.000	0.000	0.000	0.000	11/04/2025	16:48
11	Q3534-02		1	100	100		1.90	0.000	0.000	0.000	0.000	11/04/2025	16:48
12	Q3534-03		1	100	100		1.99	0.000	0.000	0.000	0.000	11/04/2025	16:49
13	Q3534-04		1	100	100		1.90	0.000	0.000	0.000	0.000	11/04/2025	16:49
14	Q3534-05		1	100	100		1.88	0.000	0.000	0.000	0.000	11/04/2025	16:50
15	Q3534-06		1	100	100		2.00	0.000	0.000	0.000	0.000	11/04/2025	16:50
16	CCV2	0.5	1	100	100		1.97	0.000	0.392	0.392	0.500	11/04/2025	16:51
17	CCB2		1	100	100		1.95	0.000	0.000	0.000	0.000	11/04/2025	16:51
18	Q3534-07		1	100	100		2.06	0.000	0.000	0.000	0.000	11/04/2025	16:52
19	Q3534-07DU		1	100	100		2.04	0.000	0.000	0.000	0.000	11/04/2025	16:52
20	Q3534-07MS	1	2	100	100		2.06	0.000	0.370	0.370	0.472	11/04/2025	16:53
21	Q3534-07MS	1	2	100	100		2.02	0.000	0.372	0.372	0.474	11/04/2025	16:53
22	Q3534-09		1	100	100		2.10	0.000	0.000	0.000	0.000	11/04/2025	16:54
23	CCV3	0.5	1	100	100		1.94	0.000	0.394	0.394	0.502	11/04/2025	16:54
24	CCB3		1	100	100		1.94	0.000	0.001	0.001	0.001	11/04/2025	16:55

Analytical Summary Report

Analysis Method: 9040C

Analyst By : jignesh

Parameter: pH

Supervisor Review By : Iwona

Run Number: LB137776

Slope : 98.6

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].

True Value of CCV3 = 2.00 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	10:10
2	CAL2	1	Water	NA	NA	20.3	7.00	11/05/2025	10:11
3	CAL3	1	Water	NA	NA	20.4	10.03	11/05/2025	10:14
4	ICV	1	Water	NA	NA	20.1	6.98	11/05/2025	10:15
5	CCV1	1	Water	NA	NA	20.3	2.02	11/05/2025	10:19
6	Q3534-01	1	Water	NA	NA	20.6	6.20	11/05/2025	10:25
7	Q3534-02	1	Water	NA	NA	20.4	6.52	11/05/2025	10:26
8	Q3534-03	1	Water	NA	NA	20.5	6.64	11/05/2025	10:33
9	Q3534-04	1	Water	NA	NA	20.9	6.56	11/05/2025	10:37
10	Q3534-05	1	Water	NA	NA	20.1	6.32	11/05/2025	10:40
11	Q3534-06	1	Water	NA	NA	20.8	6.56	11/05/2025	10:47
12	Q3534-07	1	Water	NA	NA	20.8	6.70	11/05/2025	10:50
13	Q3537-03	1	Water	NA	NA	20.6	6.80	11/05/2025	11:00
14	Q3541-01	1	Water	NA	NA	20.7	8.49	11/05/2025	11:10
15	Q3542-01	1	Water	NA	NA	20.6	9.70	11/05/2025	11:20
16	CCV2	1	Water	NA	NA	20.3	12.02	11/05/2025	11:25
17	Q3542-01DUP	1	Water	NA	NA	20.8	9.72	11/05/2025	11:27
18	CCV3	1	Water	NA	NA	20.2	2.01	11/05/2025	11:30

WORKLIST(Hardcopy Internal Chain)

137776

WorkList Name : ph q w3542 WorkList ID : 192887 Department : Wet-Chemistry Date : 11-05-2025 08:39:39

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q3534-01	MW-6	Water	pH	Cool 4 deg C	REMI02	D31	11/03/2025	9040C
Q3534-02	MW-1	Water	pH	Cool 4 deg C	REMI02	D31	11/03/2025	9040C
Q3534-03	MW-11	Water	pH	Cool 4 deg C	REMI02	D31	11/03/2025	9040C
Q3534-04	MW-5	Water	pH	Cool 4 deg C	REMI02	D31	11/04/2025	9040C
Q3534-05	MW-EB-1	Water	pH	Cool 4 deg C	REMI02	D31	11/03/2025	9040C
Q3534-06	MW-EB-2	Water	pH	Cool 4 deg C	REMI02	D31	11/04/2025	9040C
Q3534-07	MW-EB-3	Water	pH	Cool 4 deg C	REMI02	D31	11/03/2025	9040C
Q3537-03	MW-17-WATER	Water	pH	Cool 4 deg C	REMI02	D31	11/03/2025	9040C
Q3541-01	N48969	Water	pH	Cool 4 deg C	PSEG03	D41	11/04/2025	9040C
Q3542-01	AUD-25-182-194	Water	pH	Cool 4 deg C	PSEG03	D41	11/04/2025	9040C

Date/Time 11/05/25 08:45

Raw Sample Received by: [Signature]

Raw Sample Relinquished by: [Signature]

Date/Time 11/05/25

Raw Sample Received by: [Signature]

Raw Sample Relinquished by: [Signature]

BOD5 LOG

ANALYST: rubin

SUPERVISOR: Iwona

Analysis Date: 11/05/2025

MANGANOUS SULFATE SOLUTION: W3103

Alkaline Iodide Azide: W3109

Sodium Thiosulfate, 0.025N: W3248

NaOH, 1N: WP113878

IncubatorID: INCUBATOR #3

GuageID: 0511064

Zero DO: WP115341

QC BATCH ID: LB137780

BOD Water: WP115467

Starch: W3149

Sulfuric acid, 1N: WP115342

POLYSEED: WP115469

GGA: WP115468

Chlorine Strips: W3155

pH Strips: W3241

Lab SampleID	Client ID	Bottle No.	VOL. ML	Initial Reading (ML)	Final Reading (ML)	Difference	Average
WINKLER 1	WINKLER 1	1	300	0.0	9.8	9.8	9.8
WINKLER 2	WINKLER 2	2	300	9.9	19.7	9.8	9.8

Meter Calibration1: 9.21 Zero DO Reading1: 0.14 mg/L (<=0.2 Criteria)

Barometric Pressure1: 755 mmHg DO Meter BOD fluid reading for winkler comparison: 9.97

After Incubation

Meter Calibration2: 8.59 Zero DO Reading2: 0.10 mg/L (<=0.2 Criteria)

Barometric Pressure2: 750 mmHg

QC BATCH ID: LB137780

INCUBATOR TEMP IN(C): 20.1

INCUBATOR TEMP OUT(C): 20.1

TIME IN: 10:10

TIME OUT: 09:20

DATE IN: 11/05/2025

DATE OUT: 11/10/2025

Lab SampleID	Bottle No.	Check CL	Initial PH	Final PH	Temp °C	Sam Vol. (mL)	D.O.1 Initial	D.O.2 Final	Depletion	BOD Result (mg/L)	Avg Result (mg/L)	Comment
LB137780BL	1	No	6.62	N/A	20.80	300	9.97	9.96	0.01	0.01	0.01	
POLYSEED	1					10	9.95	6.77	3.18	0.64	0.66	
POLYSEED	2					15	9.92	4.79	5.13	0.68		
POLYSEED	3					20	9.87	3.27	6.6	0.66		
GGA	1					6	9.90	5.45	4.45	189.5	194.5	
GGA	2					6	9.90	5.38	4.52	193		
GGA	3					6	9.89	5.21	4.68	201		
Q3534-01	1	No	6.20	6.87	20.20	5	9.94	7.58	2.36	102	92.03	pH Adjusted
Q3534-01	2					20	9.88	3.75	6.13	82.05		
Q3534-01	3					50	9.21	0.98	-	0		
Q3534-01	4					150	8.55	0.87	-	0		
Q3534-02	1	No	6.52	N/A	20.10	5	9.90	8.81	-	0	8.4	
Q3534-02	2					20	9.87	8.48	-	0		
Q3534-02	3					50	9.80	7.62	2.18	9.12		
Q3534-02	4					150	9.77	5.27	4.5	7.68		
Q3534-03	1	No	6.64	N/A	20.20	5	9.92	8.84	-	0	7.06	
Q3534-03	2					20	9.85	8.41	-	0		
Q3534-03	3					50	9.80	8.02	-	0		
Q3534-03	4					150	9.38	5.19	4.19	7.06		
Q3534-04	1	No	6.56	N/A	20.10	5	9.90	8.02	-	0	57.06	
Q3534-04	2					20	9.87	4.87	5	65.1		
Q3534-04	3					50	9.85	1.02	8.83	49.02		
Q3534-04	4					150	8.59	0.23	-	0		
Q3534-05	1	No	6.32	6.72	20.20	5	9.93	7.08	2.85	131.4	116.4	pH Adjusted
Q3534-05	2					20	9.90	2.48	7.42	101.4		
Q3534-05	3					50	9.31	0.93	-	0		
Q3534-05	4					150	7.31	0.37	-	0		
Q3534-06	1	No	6.56	N/A	20.10	5	9.91	8.20	-	0	14.48	
Q3534-06	2					20	9.87	8.02	-	0		
Q3534-06	3					50	9.80	6.52	3.28	15.72		
Q3534-06	4					150	9.44	2.16	7.28	13.24		
Q3534-07	1	No	6.72	N/A	20.20	5	9.90	8.28	-	0	33.87	
Q3534-07	2					20	9.84	6.68	3.16	37.5		
Q3534-07	3					50	9.41	3.71	5.7	30.24		
Q3534-07	4					150	7.51	0.30	-	0		
Q3537-03	1	No	6.81	N/A	20.30	5	9.91	8.89	-	0		
Q3537-03	2					20	9.90	8.48	-	0		
Q3537-03	3					50	9.87	8.23	-	0		
Q3537-03	4					150	9.85	8.01	-	0		
Q3537-03DUP	1	No	6.81	N/A	20.30	5	9.90	8.80	-	0		
Q3537-03DUP	2					20	9.88	8.58	-	0		

Q3537-03DUP	3					50	9.86	8.36	-	0		
Q3537-03DUP	4					150	9.84	8.12	-	0		
Q3541-01	1	No	8.46	6.97	20.40	5	9.92	8.80	-	0		
Q3541-01	2					20	9.90	8.31	-	0		
Q3541-01	3					50	9.87	8.19	-	0		
Q3541-01	4					150	9.85	8.04	-	0		

NOTE: 2ml POLYSEED added to GGA and all the Samples, but not in Blank.
NOTE (For, CBOD5): 0.16 g Nitrification Inhibitor added to GGA and all the Samples, but not in Blank.

WORKLIST(Hardcopy Internal Chain)

6137780

WorkList Name : BOD5-11-04 WorkList ID : 192875 Department : Wet-Chemistry Date : 11-04-2025 17:00:42

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q3534-01	MW-6	Water	BOD5	Cool 4 deg C	REMI02	D31	11/03/2025	SM5210 B
Q3534-02	MW-1	Water	BOD5	Cool 4 deg C	REMI02	D31	11/03/2025	SM5210 B
Q3534-03	MW-11	Water	BOD5	Cool 4 deg C	REMI02	D31	11/03/2025	SM5210 B
Q3534-04	MW-5	Water	BOD5	Cool 4 deg C	REMI02	D31	11/04/2025	SM5210 B
Q3534-05	MW-EB-1	Water	BOD5	Cool 4 deg C	REMI02	D31	11/03/2025	SM5210 B
Q3534-06	MW-EB-2	Water	BOD5	Cool 4 deg C	REMI02	D31	11/04/2025	SM5210 B
Q3534-07	MW-EB-3	Water	BOD5	Cool 4 deg C	REMI02	D31	11/03/2025	SM5210 B
Q3537-03	MW-17-WATER	Water	BOD5	Cool 4 deg C	PSEG03	D41	11/04/2025	SM5210 B
Q3541-01	N48969	Water	BOD5	Cool 4 deg C	PSEG03	D41	11/04/2025	SM5210 B

Date/Time 11/05/2025 08.10
 Raw Sample Received by: RMW
 Raw Sample Relinquished by: RMW

Date/Time 11/05/2025 10.2
 Raw Sample Received by: RMW
 Raw Sample Relinquished by: RMW

Analytical Summary Report

Analysis Method: 7196A

ANALYST: rubina

Parameter: ~~Hexavalent Chromium~~

SUPERVISOR REVIEW BY: jignesh

Run Number: LB137790

pH Meter ID: WC pH Meter-1

Reagent/Standard	Lot/Log #
Calibration Std. hexchrome 0.1 ppm	WP115485
Calibration Std. hexchrome 0.05 ppm	WP115484
calibration std. hexchrome 0.01 ppm	WP115489
calibration std. hexchrome 0 ppm	WP115482
hexavalent chromium color reagent	WP115393
5N sulfuric acid	WP115340
Calibration Std Hexachrome 0.025 ppm	WP115483
Hexavalent Chromium ICV-LCS Std	WP115488
Calibration and CCV std HexChrome 0.5PPM	WP115486
Calibration std HexChrome 1.0PPM	WP115487

Intercept: 0.0008

Slope: 0.7823

Regression: 0.999994

Seq	Lab ID	True Value (mg/l)	DF	Initial Vol (ml)	Final Vol (ml)	pH HN03	pH H2SO4	Absorb.at 540nm		Absorbance Difference	Result (mg/L)	%D	Anal Date	Anal Time
								Backgrnd	Color					
1	CAL1	0	1	100	100		1.88	0.000	0.001	0.001	0.000		11/05/2025	10:00
2	CAL2	0.01	1	100	100		1.95	0.000	0.008	0.008	0.009	-10	11/05/2025	10:00
3	CAL3	0.025	1	100	100		2.02	0.000	0.019	0.019	0.023	-8	11/05/2025	10:01
4	CAL4	0.05	1	100	100		1.92	0.000	0.040	0.040	0.050	0	11/05/2025	10:01
5	CAL5	0.1	1	100	100		1.95	0.000	0.081	0.081	0.102	2	11/05/2025	10:02
6	CAL6	0.5	1	100	100		1.93	0.000	0.392	0.392	0.500	0	11/05/2025	10:02
7	CAL7	1	1	100	100		1.97	0.000	0.783	0.783	0.999	-0.1	11/05/2025	10:03

Analytical Summary Report

Analysis Method: 7196A

ANALYST:rubina

Parameter: Hexavalent Chromium

SUPERVISOR REVIEW BY:jignesh

Run Number: LB137790

pH Meter ID:WC pH Meter-1

Seq	Lab ID	True Value	DF	Initial Vol (ml/gm)	Final Vol (ml)	pH HN03	pH H2SO4	Absorb.at540nm		Absorbance Difference	Intermediate Result (mg/L)	Anal Date	Anal Time
								Backgrnd	Color				
1	ICV	0.5	1	100	100		1.98	0.000	0.390	0.390	0.498	11/05/2025	10:03
2	ICB		1	100	100		2.06	0.000	0.000	0.000	-0.001	11/05/2025	10:04
3	CCV1	0.5	1	100	100		2.07	0.000	0.394	0.394	0.503	11/05/2025	10:04
4	CCB1		1	100	100		1.90	0.000	0.001	0.001	0.000	11/05/2025	10:05
5	RL Check	0.01	1	100	100		2.06	0.000	0.009	0.009	0.010	11/05/2025	10:05
6	LB137790BL		1	100	100		1.83	0.000	0.001	0.001	0.000	11/05/2025	10:06
7	LB137790BS	0.5	1	100	100		2.00	0.000	0.404	0.404	0.515	11/05/2025	10:06
8	Q3534-10		1	100	100		2.00	0.000	0.000	0.000	-0.001	11/05/2025	10:07
9	CCV2	0.5	1	100	100		2.04	0.000	0.391	0.391	0.499	11/05/2025	10:07
10	CCB2		1	100	100		1.89	0.000	0.000	0.000	-0.001	11/05/2025	10:08

66137790

WORKLIST(Hardcopy Internal Chain)

WorkList Name : HEX 11-04-

WorkList ID : 192921

Department : Wet-Chemistry

Date : 11-05-2025 08:43:38

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q3534-10	EB-1	Water	Hexavalent Chromium	Ammonium sulfate buffer	REMI02	D31	11/04/2025	7196A

Date/Time 11/05/2025 0832
Raw Sample Received by: RM CWG
Raw Sample Relinquished by: RM CWG

Date/Time 11/05/2025 1045
Raw Sample Received by: RM CWG
Raw Sample Relinquished by: RM CWG

613

Test results

Aquakem 7.2AQ1

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Alliance Technical Group

284 Sheffield Street, Mountainside, NJ 07092

Reviewed by : RM

Instrument ID : Konelab

11/6/2025 17:26

Test: TKN-NH3

Sample Id	Result	Dil. 1 +	Response	Errors
ICV1	4.980	0.0	1.027	
ICB1	0.085	0.0	0.020	
CCV1	4.852	0.0	1.000	
CCB1	0.079	0.0	0.019	
RL CHECK	0.463	0.0	0.098	
PB170430BL	0.101	0.0	0.023	
PB170430BS	4.983	0.0	1.027	
Q3534-01	34.246	0.0	7.045	Abs. high, Init abs., Tes
Q3534-02	3.299	0.0	0.681	
Q3534-03	1.248	0.0	0.259	
Q3534-04	10.949	0.0	2.254	Test limit high
Q3534-05	30.083	0.0	6.189	Init abs., Test limit hig
Q3534-06	7.927	0.0	1.633	
Q3534-07	6.196	0.0	1.277	
CCV2	4.896	0.0	1.009	
CCB2	0.081	0.0	0.019	
Q3537-03	0.253	0.0	0.054	
Q3537-03DUP	0.246	0.0	0.053	
Q3537-03MS	5.206	0.0	1.073	
Q3537-03MSD	5.116	0.0	1.055	
Q3541-01	0.540	0.0	0.114	
CCV3	5.004	0.0	1.032	
CCB3	0.089	0.0	0.021	
Q3534-01DLX10	5.894	0.0	1.215	
Q3534-04DLX5	5.632	0.0	1.161	
Q3534-05DLX10	3.496	0.0	0.721	
CCV4	4.916	0.0	1.013	
CCB4	0.086	0.0	0.020	

92% (50-150) 11/06/2025
RM

N 28
Mean 5.391
SD 8.1116
CV% 150.47

Aquakem v. 7.2AQ1

Results from time period:

Thu Nov 06 14:29:41 2025

Thu Nov 06 16:25:15 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	0.1052	mg/l	11/6/2025 14:29:41	
0.5PPM	A	TKN-NH3	P	0.5204	mg/l	11/6/2025 14:29:42	
1.0PPM	A	TKN-NH3	P	0.9615	mg/l	11/6/2025 14:29:43	
2.5PPM	A	TKN-NH3	P	2.4453	mg/l	11/6/2025 14:29:44	
5.0PPM	A	TKN-NH3	P	4.8787	mg/l	11/6/2025 14:29:45	
6.7PPM	A	TKN-NH3	P	6.7018	mg/l	11/6/2025 14:29:46	
10.0PPM	A	TKN-NH3	P	10.0538	mg/l	11/6/2025 14:29:47	
ICV1	S	TKN-NH3	P	4.9803	mg/l	11/6/2025 15:31:29	
ICB1	S	TKN-NH3	P	0.0853	mg/l	11/6/2025 15:31:30	
CCV1	S	TKN-NH3	P	4.8521	mg/l	11/6/2025 15:31:32	
CCB1	S	TKN-NH3	P	0.0787	mg/l	11/6/2025 15:31:35	
RL CHECK	S	TKN-NH3	P	0.4626	mg/l	11/6/2025 15:31:38	
PB170430BL	S	TKN-NH3	P	0.1014	mg/l	11/6/2025 15:42:12	
PB170430BS	S	TKN-NH3	P	4.9829	mg/l	11/6/2025 15:42:14	
Q3534-01	S	TKN-NH3	P	34.2458	mg/l	11/6/2025 15:42:16	
Q3534-02	S	TKN-NH3	P	3.2989	mg/l	11/6/2025 15:42:17	
Q3534-03	S	TKN-NH3	P	1.2483	mg/l	11/6/2025 15:42:18	
Q3534-04	S	TKN-NH3	P	10.9491	mg/l	11/6/2025 15:42:19	
Q3534-05	S	TKN-NH3	P	30.0827	mg/l	11/6/2025 15:42:20	
Q3534-06	S	TKN-NH3	P	7.9268	mg/l	11/6/2025 15:42:21	
Q3534-07	S	TKN-NH3	P	6.1959	mg/l	11/6/2025 15:42:22	
CCV2	S	TKN-NH3	P	4.8963	mg/l	11/6/2025 15:52:56	
CCB2	S	TKN-NH3	P	0.0811	mg/l	11/6/2025 15:52:58	
Q3537-03	S	TKN-NH3	P	0.2528	mg/l	11/6/2025 15:53:00	
Q3537-03DUP	S	TKN-NH3	P	0.2459	mg/l	11/6/2025 15:53:02	
Q3537-03MS	S	TKN-NH3	P	5.206	mg/l	11/6/2025 15:53:03	
Q3537-03MSD	S	TKN-NH3	P	5.1162	mg/l	11/6/2025 15:53:04	
Q3541-01	S	TKN-NH3	P	0.5403	mg/l	11/6/2025 16:00:09	
CCV3	S	TKN-NH3	P	5.0038	mg/l	11/6/2025 16:00:10	
CCB3	S	TKN-NH3	P	0.089	mg/l	11/6/2025 16:00:13	
Q3534-01DLX10	S	TKN-NH3	P	5.8939	mg/l	11/6/2025 16:25:06	
Q3534-04DLX5	S	TKN-NH3	P	5.6321	mg/l	11/6/2025 16:25:08	
Q3534-05DLX10	S	TKN-NH3	P	3.4956	mg/l	11/6/2025 16:25:10	
CCV4	S	TKN-NH3	P	4.9161	mg/l	11/6/2025 16:25:13	
CCB4	S	TKN-NH3	P	0.0855	mg/l	11/6/2025 16:25:15	

Calibration results

Aquakem 7.2AQ1

Page:

Alliance Technical Group

284 Sheffield Street, Mountainside, NJ 07092

Reviewed by : RM

Instrument ID : Konelab

11/6/2025 14:42

Test TKN-NH3

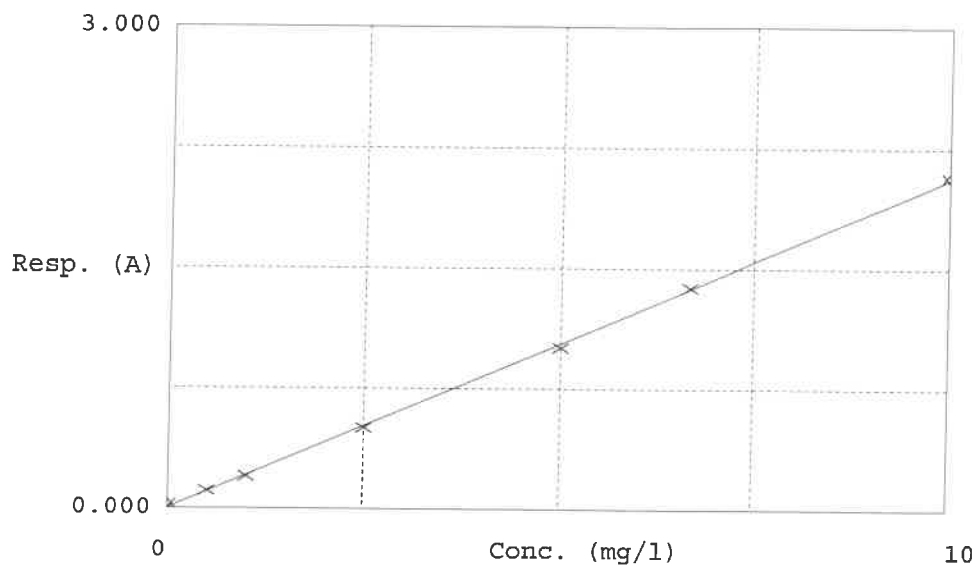
Accepted 11/6/2025 14:42

Factor 4.862

Bias 0.002

Coeff. of det. 0.999580

Errors



	Calibrator	Response	Calc. con.	Conc.	Errors
1	0.00PPM	0.024	0.1052	0.0000	
2	TKN-10	0.109	0.5204	0.5000	4.1
3	TKN-10	0.200	0.9615	1.0000	-3.9
4	TKN-10	0.505	2.4453	2.5000	-2.2
5	TKN-10	1.006	4.8787	5.0000	-2.4
6	TKN-10	1.381	6.7018	6.6667	0.0
7	TKN-10	2.070	10.0538	10.0000	0.5

11/06/2025
RM

Extraction and Analytical Summary Report

Analysis Method: 1664A
Test: Oil and Grease
Run Number: LB137814
Analysis Date: 11/07/2025
BalanceID: WC SC-5
OvenID: EXT OVEN-3

ANALYST: jignesh
REVIEWED BY: Iwona
Extraction Date: 11/07/2025
Extraction IN Time: 08:10
Extraction OUT Time: 10:00
Thermometer ID: EXT OVEN#3

Dish #	Lab ID	Client ID	Matrix	pH	Sample Vol (ml)	Final Volume (ml)	Empty Dish Weight (g)	Final Empty Dish Weight (g)	Silica Gel Weight (g)	Weight After Drying (g)	Final Weight After Drying (g)	Change Weight (g)	Result in ppm
1	LB137814BL	LB137814BL	WATER	1.3	1000	100	3.6217	3.6217	0	3.6218	3.6218	0.0001	0.1
2	LB137814BS	LB137814BS	WATER	1.3	1000	100	2.7413	2.7413	0	2.7582	2.7582	0.0169	16.9
3	Q3442-01	SW-1	WATER	1.3	1000	100	3.0325	3.0325	0	3.0341	3.0341	0.0016	1.6
4	Q3498-01	GREASE	WATER	1.6	400	100	3.0720	3.0720	0	4.0047	4.0047	0.9327	2331.75
5	Q3507-01	SW-1	WATER	1.3	400	100	3.0549	3.0549	0	3.0604	3.0604	0.0055	13.75
6	Q3508-01	SW-1	WATER	1.3	1000	100	3.0737	3.0737	0	3.0740	3.0740	0.0003	0.3
7	Q3510-01	OUTFALL-002	WATER	1.3	1000	100	3.0633	3.0633	0	3.0651	3.0651	0.0018	1.8
8	Q3511-01	OUTFALL-001	WATER	1.6	1000	100	3.0791	3.0791	0	3.0793	3.0793	0.0002	0.2
9	Q3511-02	OUTFALL-002	WATER	1.6	1000	100	3.0754	3.0754	0	3.0757	3.0757	0.0003	0.3
10	Q3530-07	LOD-MDL-WATER-01-QT4-2	WATER	1.3	1000	100	3.0423	3.0423	0	3.0445	3.0445	0.0022	2.2
11	Q3530-08	LOQ-WATER-02-QT4-2025	WATER	1.3	1000	100	3.0680	3.0680	0	3.0728	3.0728	0.0048	4.8
12	Q3534-01	MW-6	WATER	1.6	1000	100	3.0523	3.0523	0	3.0538	3.0538	0.0015	1.5
13	Q3534-02	MW-1	WATER	1.3	1000	100	3.0580	3.0580	0	3.0582	3.0582	0.0002	0.2
14	Q3534-03	MW-11	WATER	1.3	1000	100	3.0377	3.0377	0	3.0381	3.0381	0.0004	0.4
15	Q3534-04	MW-5	WATER	1.6	1000	100	3.0972	3.0972	0	3.0975	3.0975	0.0003	0.3
16	Q3534-05	MW-EB-1	WATER	1.6	1000	100	3.0588	3.0588	0	3.0642	3.0642	0.0054	5.4
17	Q3534-06	MW-EB-2	WATER	1.6	1000	100	3.0185	3.0185	0	3.0191	3.0191	0.0006	0.6
18	Q3534-07	MW-EB-3	WATER	1.6	1000	100	3.0266	3.0266	0	3.0273	3.0273	0.0007	0.7
19	Q3534-09	FB-1	WATER	1.3	1000	100	3.0643	3.0643	0	3.0644	3.0644	0.0001	0.1
20	Q3534-10	EB-1	WATER	1.3	1000	100	3.0633	3.0633	0	3.0634	3.0634	0.0001	0.1
21	Q3551-01	MANHOLE	WATER	1.6	1000	100	3.1237	3.1237	0	3.1295	3.1295	0.0058	5.8
22	Q3551-02	Q3551-01MS	WATER	1.6	1000	100	2.8563	2.8563	0	2.8822	2.8822	0.0259	25.9
23	Q3551-03	Q3551-01MSD	WATER	1.6	1000	100	3.0478	3.0478	0	3.0738	3.0738	0.0260	26
24	Q3552-01	MW-4	WATER	1.6	1000	100	2.9892	2.9892	0	2.9910	2.9910	0.0018	1.8

25	Q3552-02	MW-8	WATER	1.6	1000	100	3.0353	3.0353	0	3.0362	3.0362	0.0009	0.9
26	Q3552-03	MW-9	WATER	1.6	1000	100	3.0181	3.0181	0	3.0192	3.0192	0.0011	1.1
27	Q3552-04	MW-10	WATER	1.3	1000	100	3.0502	3.0502	0	3.0505	3.0505	0.0003	0.3
28	Q3552-05	MW-3	WATER	1.3	1000	100	3.0778	3.0778	0	3.0827	3.0827	0.0049	4.9
29	Q3554-01	EFFLUENT	WATER	1.6	1000	100	3.1345	3.1345	0	3.1529	3.1529	0.0184	18.4
30	Q3554-02	Q3554-01MS	WATER	1.6	1000	100	2.8506	2.8506	0	2.8892	2.8892	0.0386	38.6
31	Q3554-03	Q3554-01MSD	WATER	1.6	1000	100	3.1589	3.1589	0	3.1977	3.1977	0.0388	38.8

QC Batch# LB137814

Test: Oil and Grease

Analysis Date: 11/07/2025

Chemicals Used:

Chemical Name	Chemical Lot #
HEXANE	W3240
pH Paper 0-14	M6069
Sodium Sulfate	EP2655
1:1 HCL	WP115016
Silica Gel	N/A
Sand	N/A

Standards Used:

Standard Name	Amount Used	Standard Lot #
LCSW	2.5 ML	WP115017
LCSWD	N/A	N/A
MS/MSD	2.5 ML	WP115018

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 : 11:36

1.0000 gram Balance: 1.0004 (0.9950-1.0050) In Time1: 10:30

Bal Check Time: 08:20 Out OVEN TEMP1: 71 °C Dessicator Time Out1: 12:00

Out Time1: 11:35

After Analysis

0.0020 gram Balance: 0.0019 (0.0018-0.0022) In OVEN TEMP2 : 70 °C Dessicator Time In2 : 13:31

1.0000 gram Balance: 1.0005 (0.9950-1.0050) In Time2: 12:45

Bal Check Time: 14:10 Out OVEN TEMP2: 70 °C Dessicator Time Out2: 14:00

Out Time2: 13:30

WORKLIST(Hardcopy Internal Chain)

137814

WorkList Name : OIL & GREASE Q3534

WorkList ID : 192960

Department : Wet-Chemistry

Date : 11-07-2025 07:52:49

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q3442-01	SW-1	Water	Oil and Grease	Conc H2SO4 to pH < 2	ATGG01	D41	10/18/2025	1664A
Q3498-01	GREASE	Water	Oil and Grease	Conc H2SO4 to pH < 2	LOEF01	D41	10/30/2025	1664A
Q3507-01	SW-1	Water	Oil and Grease	Conc H2SO4 to pH < 2	ATGG01	J12	10/30/2025	1664A
Q3508-01	SW-1	Water	Oil and Grease	Conc H2SO4 to pH < 2	ATGG01	J21	10/30/2025	1664A
Q3510-01	OUTFALL-002	Water	Oil and Grease	Conc H2SO4 to pH < 2	ATGG01	D41	10/30/2025	1664A
Q3511-01	OUTFALL-001	Water	Oil and Grease	Conc H2SO4 to pH < 2	ATGG01	D41	10/30/2025	1664A
Q3511-02	OUTFALL-002	Water	Oil and Grease	Conc H2SO4 to pH < 2	ATGG01	D41	10/30/2025	1664A
Q3530-07	LOD-MDL-WATER-01-QT4-202	Water	Oil and Grease	Conc H2SO4 to pH < 2	ALLI03	QA OI	11/03/2025	1664A
Q3530-08	LOQ-WATER-02-QT4-2025	Water	Oil and Grease	Conc H2SO4 to pH < 2	ALLI03	QA OI	11/03/2025	1664A
Q3534-01	MW-6	Water	Oil and Grease	Conc H2SO4 to pH < 2	REMI02	D31	11/03/2025	1664A
Q3534-02	MW-1	Water	Oil and Grease	Conc H2SO4 to pH < 2	REMI02	D31	11/03/2025	1664A
Q3534-03	MW-11	Water	Oil and Grease	Conc H2SO4 to pH < 2	REMI02	D31	11/03/2025	1664A
Q3534-04	MW-5	Water	Oil and Grease	Conc H2SO4 to pH < 2	REMI02	D31	11/03/2025	1664A
Q3534-05	MW-EB-1	Water	Oil and Grease	Conc H2SO4 to pH < 2	REMI02	D31	11/04/2025	1664A
Q3534-06	MW-EB-2	Water	Oil and Grease	Conc H2SO4 to pH < 2	REMI02	D31	11/03/2025	1664A
Q3534-07	MW-EB-3	Water	Oil and Grease	Conc H2SO4 to pH < 2	REMI02	D31	11/04/2025	1664A
Q3534-09	FB-1	Water	Oil and Grease	Conc H2SO4 to pH < 2	REMI02	D31	11/03/2025	1664A
Q3534-10	EB-1	Water	Oil and Grease	Conc H2SO4 to pH < 2	REMI02	D31	11/04/2025	1664A
Q3551-01	MANHOLE	Water	Oil and Grease	Conc H2SO4 to pH < 2	SPEC01	D41	11/05/2025	1664A
Q3551-02	Q3551-01MS	Water	Oil and Grease	Conc H2SO4 to pH < 2	SPEC01	D41	11/05/2025	1664A
Q3551-03	Q3551-01MSD	Water	Oil and Grease	Conc H2SO4 to pH < 2	SPEC01	D41	11/05/2025	1664A

Date/Time 11/07/25 08:00

Raw Sample Received by: 137814

Raw Sample Relinquished by: 137814

Date/Time 11/07/25

Raw Sample Received by: 137814

Raw Sample Relinquished by: 137814

WORKLIST(Hardcopy Internal Chain)

18737814

WorkList Name : OIL & GREASE Q3534

WorkList ID : 192960

Department : Wet-Chemistry

Date : 11-07-2025 07:52:49

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q3552-01	MW-4	Water	Oil and Grease	Conc H2SO4 to pH < 2	REMI02	D41	11/04/2025	1664A
Q3552-02	MW-8	Water	Oil and Grease	Conc H2SO4 to pH < 2	REMI02	D41	11/04/2025	1664A
Q3552-03	MW-9	Water	Oil and Grease	Conc H2SO4 to pH < 2	REMI02	D41	11/04/2025	1664A
Q3552-04	MW-10	Water	Oil and Grease	Conc H2SO4 to pH < 2	REMI02	D41	11/05/2025	1664A
Q3552-05	MW-3	Water	Oil and Grease	Conc H2SO4 to pH < 2	REMI02	D41	11/04/2025	1664A
Q3554-01	EFFLUENT	Water	Oil and Grease	Conc H2SO4 to pH < 2	HOLL01	D41	11/05/2025	1664A
Q3554-02	Q3554-01MS	Water	Oil and Grease	Conc H2SO4 to pH < 2	HOLL01	D41	11/05/2025	1664A
Q3554-03	Q3554-01MSD	Water	Oil and Grease	Conc H2SO4 to pH < 2	HOLL01	D41	11/05/2025	1664A

Date/Time 11/07/25 08:00

Raw Sample Received by: [Signature]

Raw Sample Relinquished by: [Signature]

Date/Time 11/07/25 16:40

Raw Sample Received by: [Signature]

Raw Sample Relinquished by: [Signature]

Analytical Summary Report

Analysis Method: SM5220 D

ANALYST: Iwona

Parameter: COD

SUPERVISOR REVIEW BY: jignesh

Run Number: LB137820

Reagent/Standard	Lot/Log #
COD calibration std. 150 ppm	WP114659
COD calibration std. 100 ppm	WP114658
COD calibration std. 50 ppm	WP114656
COD calibration std. 10 ppm	WP114655
COD calibration std. 0 ppm	WP114654
COD ICV-LCS std, 50ppm	WP114661
COD calibration std. 75 ppm	WP114657
COD Digestion Vials Low Level 0-150Mg/L	W3230
COD CCV std, 50ppm	WP115438
COD ICV-LCS std, 50ppm	WP115439
COD LOD std, 5ppm	WP115436
RL CHECK	WP115440

Temp In (C): <u>148</u>	Date In: <u>11/07/2025</u>	Time In: <u>10:00</u>
Temp Out (C): <u>151</u>	Date Out: <u>11/07/2025</u>	Time Out: <u>12:00</u>

Intercept: 0.3943

Slope: 0.9887

Regression: 0.9996

Seq	Lab ID	TrueValue (mg/l)	DF	MATRIX	Reading	Result (mg/l)	%D	Anal Date	Anal Time
1	CAL1	0	1	Water	0.000	-0.399		09/08/2025	13:30
2	CAL2	10	1	Water	9.000	8.704	-13	09/08/2025	13:30
3	CAL3	50	1	Water	51.000	51.184	2.4	09/08/2025	13:31
4	CAL4	75	1	Water	77.000	77.481	3.3	09/08/2025	13:31
5	CAL5	100	1	Water	98.000	98.721	-1.3	09/08/2025	13:32
6	CAL6	150	1	Water	148.000	149.293	-0.5	09/08/2025	13:32

Analytical Summary Report

Analysis Method: SM5220 D

ANALYST: Iwona

Parameter: COD

SUPERVISOR REVIEW BY: jignesh

Run Number: LB137820

Seq	Lab ID	True Value (mg/l)	Initial Weight (g)	Final Vol (ml)	DF	MATRIX	Reading	Result	AnalDate	AnalTime
1	ICV	50	NA	NA	1	Water	50.000	50.173	09/08/2025	13:33
2	ICB		NA	NA	1	Water	1.000	0.613	09/08/2025	13:33
3	CCV1	50	NA	NA	1	Water	51.000	51.184	11/07/2025	13:05
4	CCB1		NA	NA	1	Water	1.000	0.613	11/07/2025	13:05
5	RL Check	10	NA	NA	1	Water	7.000	6.681	11/07/2025	13:06
6	LB137820BL		NA	NA	1	Water	1.000	0.613	11/07/2025	13:06
7	LB137820BS	50	NA	NA	1	Water	52.000	52.196	11/07/2025	13:07
8	Q3530-09		NA	NA	1	Water	5.000	4.658	11/07/2025	13:07
9	Q3534-01		NA	NA	1	Water	90.000	90.630	11/07/2025	13:08
10	Q3534-02		NA	NA	1	Water	112.000	112.881	11/07/2025	13:08
11	Q3534-03		NA	NA	1	Water	86.000	86.584	11/07/2025	13:09
12	Q3534-04		NA	NA	1	Water	71.000	71.413	11/07/2025	13:09
13	Q3534-05		NA	NA	1	Water	139.000	140.190	11/07/2025	13:10
14	Q3534-06		NA	NA	1	Water	60.000	60.287	11/07/2025	13:10
15	Q3534-07		NA	NA	1	Water	97.000	97.710	11/07/2025	13:11
16	CCV2	50	NA	NA	1	Water	51.000	51.184	11/07/2025	13:11
17	CCB2		NA	NA	1	Water	0.000	-0.399	11/07/2025	13:12
18	Q3537-03		NA	NA	1	Water	0.000	-0.399	11/07/2025	13:12
19	Q3541-01		NA	NA	1	Water	12.000	11.738	11/07/2025	13:13
20	Q3541-01DUP		NA	NA	1	Water	12.000	11.738	11/07/2025	13:13
21	Q3541-01MS	50	NA	NA	1	Water	60.000	60.287	11/07/2025	13:14
22	Q3541-01MSD	50	NA	NA	1	Water	59.000	59.276	11/07/2025	13:14
23	CCV3	50	NA	NA	1	Water	50.000	50.173	11/07/2025	13:15
24	CCB3		NA	NA	1	Water	1.000	0.613	11/07/2025	13:15

WORKLIST(Hardcopy Internal Chain)

LB137820

WorkList Name : COD-110525 WorkList ID : 192898 Department : Wet-Chemistry Date : 11-05-2025 09:02:14

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q3530-09	MDL-WATER-03-QT4-2025	Water	COD	Conc H2SO4 to pH < 2	ALLI03	QA 01	11/03/2025	SM5220 D
Q3534-01	MW-6	Water	COD	Conc H2SO4 to pH < 2	REMI02	D31	11/03/2025	SM5220 D
Q3534-02	MW-1	Water	COD	Conc H2SO4 to pH < 2	REMI02	D31	11/03/2025	SM5220 D
Q3534-03	MW-11	Water	COD	Conc H2SO4 to pH < 2	REMI02	D31	11/03/2025	SM5220 D
Q3534-04	MW-5	Water	COD	Conc H2SO4 to pH < 2	REMI02	D31	11/03/2025	SM5220 D
Q3534-05	MW-EB-1	Water	COD	Conc H2SO4 to pH < 2	REMI02	D31	11/04/2025	SM5220 D
Q3534-06	MW-EB-2	Water	COD	Conc H2SO4 to pH < 2	REMI02	D31	11/03/2025	SM5220 D
Q3534-07	MW-EB-3	Water	COD	Conc H2SO4 to pH < 2	REMI02	D31	11/04/2025	SM5220 D
Q3537-03	MW-17-PURGE-WATER	Water	COD	Conc H2SO4 to pH < 2	PSEG03	D41	11/04/2025	SM5220 D
Q3541-01	N48969	Water	COD	Conc H2SO4 to pH < 2	PSEG03	D41	11/04/2025	SM5220 D

Date/Time 11/07/25 09:40
 Raw Sample Received by: 12 (WC)
 Raw Sample Relinquished by: 28 (WC)

Date/Time 11/07/25 10:25
 Raw Sample Received by: 28 (WC)
 Raw Sample Relinquished by: 12 (WC)

LB137830

Test results

Aquakem 7.2AQ1

Page:

Alliance Technical Group

284 Sheffield Street, Mountainside, NJ 07092

Reviewed by : RM

Instrument ID : Konelab

11/7/2025 16:43

Test: Total CN

Sample Id	Result	Dil. 1 +	Response	Errors
ICV1	96.707	0.0	0.085	
ICB1	-0.104	0.0	0.002	
CCV1	246.631	0.0	0.215	
CCB1	-0.345	0.0	0.001	
PB170440BL	-0.455	0.0	0.001	
PB170440BS	96.776	0.0	0.085	
LOWPB170440	9.509	0.0	0.010	
HIGHPB170440	490.753	0.0	0.427	
Q3530-03	2.270	0.0	0.004	
Q3530-03RE	3.315	0.0	0.004	
Q3546-01	-0.027	0.0	0.002	
Q3546-01DUP	0.039	0.0	0.002	
Q3546-01MS	38.188	0.0	0.035	
Q3546-01MSD	38.318	0.0	0.035	
CCV2	240.591	0.0	0.210	
CCB2	-0.369	0.0	0.001	
Q3530-09	1.887	0.0	0.003	
Q3530-09RE	3.372	0.0	0.005	
Q3534-01	-0.253	0.0	0.001	
Q3534-01DUP	-0.240	0.0	0.001	
Q3534-01MS	36.364	0.0	0.033	
Q3534-01MSD	36.654	0.0	0.033	
CCV3	242.570	0.0	0.212	
CCB3	-0.428	0.0	0.001	
Q3534-02	1.010	0.0	0.002	
Q3534-03	-0.180	0.0	0.001	
Q3534-04	3.381	0.0	0.005	
Q3534-05	1.237	0.0	0.003	
Q3534-06	4.630	0.0	0.006	
Q3534-07	0.442	0.0	0.002	
Q3534-09	-0.397	0.0	0.001	
Q3534-10	-0.267	0.0	0.001	
Q3552-01	124.830	0.0	0.110	
Q3552-02	0.348	0.0	0.002	
CCV4	237.115	0.0	0.207	
CCB4	-0.258	0.0	0.001	
Q3552-03	16.362	0.0	0.016	
Q3552-04	-0.380	0.0	0.001	
Q3552-05	1.226	0.0	0.003	
Q3562-01	0.124	0.0	0.002	
Q3564-01	-0.051	0.0	0.002	
PB170441BL	-0.337	0.0	0.001	
PB170441BS	98.966	0.0	0.087	
CCV5	256.866	0.0	0.224	
CCB5	-0.406	0.0	0.001	

95% (90-110)

98% (90-110)

11/07/2025
RM

N 45
Mean 51.688
SD 103.4058
CV% 200.06

Aquakem v. 7.2AQ1

Results from time period:

Fri Nov 07 15:10:43 2025

Fri Nov 07 16:38:49 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	-0.8269	µg/l	11/7/2025 13:08:30	
5.0PPBCN	A	Total CN	P	4.3993	µg/l	11/7/2025 13:08:31	
10PPBCN	A	Total CN	P	9.6128	µg/l	11/7/2025 13:08:32	
50PPBCN	A	Total CN	P	50.1609	µg/l	11/7/2025 13:08:33	
100PPBCN	A	Total CN	P	101.6932	µg/l	11/7/2025 13:08:34	
250PPBCN	A	Total CN	P	250.6033	µg/l	11/7/2025 13:08:35	
500PPBCN	A	Total CN	P	499.3574	µg/l	11/7/2025 13:08:36	
ICV1	S	Total CN	P	96.707	µg/l	11/7/2025 15:10:44	
ICB1	S	Total CN	P	-0.104	µg/l	11/7/2025 15:10:46	
CCV1	S	Total CN	P	246.6311	µg/l	11/7/2025 15:10:48	
CCB1	S	Total CN	P	-0.3445	µg/l	11/7/2025 15:10:49	
PB170440BL	S	Total CN	P	-0.4554	µg/l	11/7/2025 15:10:51	
PB170440BS	S	Total CN	P	96.7757	µg/l	11/7/2025 15:10:53	
LOWPB170440	S	Total CN	P	9.5087	µg/l	11/7/2025 15:18:22	
HIGHPB170440	S	Total CN	P	490.7533	µg/l	11/7/2025 15:18:24	
Q3530-03	S	Total CN	P	2.2704	µg/l	11/7/2025 15:18:25	
Q3530-03RE	S	Total CN	P	3.3148	µg/l	11/7/2025 15:18:27	
Q3546-01	S	Total CN	P	-0.027	µg/l	11/7/2025 15:25:54	
Q3546-01DUP	S	Total CN	P	0.039	µg/l	11/7/2025 15:25:55	
Q3546-01MS	S	Total CN	P	38.1879	µg/l	11/7/2025 15:25:57	
Q3546-01MSD	S	Total CN	P	38.3176	µg/l	11/7/2025 15:25:58	
CCV2	S	Total CN	P	240.5909	µg/l	11/7/2025 15:25:59	
CCB2	S	Total CN	P	-0.3689	µg/l	11/7/2025 15:26:00	
Q3530-09	S	Total CN	P	1.8869	µg/l	11/7/2025 15:33:33	
Q3530-09RE	S	Total CN	P	3.372	µg/l	11/7/2025 15:33:35	
Q3534-01	S	Total CN	P	-0.2534	µg/l	11/7/2025 15:33:38	
Q3534-01DUP	S	Total CN	P	-0.2398	µg/l	11/7/2025 15:41:04	
Q3534-01MS	S	Total CN	P	36.3638	µg/l	11/7/2025 15:41:05	
Q3534-01MSD	S	Total CN	P	36.6538	µg/l	11/7/2025 15:41:06	
CCV3	S	Total CN	P	242.5697	µg/l	11/7/2025 15:41:07	
CCB3	S	Total CN	P	-0.4283	µg/l	11/7/2025 15:41:09	
Q3534-02	S	Total CN	P	1.0103	µg/l	11/7/2025 15:41:11	
Q3534-03	S	Total CN	P	-0.1802	µg/l	11/7/2025 15:41:12	
Q3534-04	S	Total CN	P	3.3808	µg/l	11/7/2025 15:41:13	
Q3534-05	S	Total CN	P	1.2373	µg/l	11/7/2025 15:48:35	
Q3534-06	S	Total CN	P	4.6297	µg/l	11/7/2025 15:48:36	
Q3534-07	S	Total CN	P	0.4425	µg/l	11/7/2025 15:48:37	
Q3534-09	S	Total CN	P	-0.3965	µg/l	11/7/2025 15:48:38	
Q3534-10	S	Total CN	P	-0.2674	µg/l	11/7/2025 15:48:39	

Q3552-01	S	Total CN	P	124.8299 µg/l	11/7/2025 15:48:40
Q3552-02	S	Total CN	P	0.3479 µg/l	11/7/2025 15:48:41
CCV4	S	Total CN	P	237.1148 µg/l	11/7/2025 15:56:11
CCB4	S	Total CN	P	-0.2583 µg/l	11/7/2025 15:56:12
Q3552-03	S	Total CN	P	16.3622 µg/l	11/7/2025 15:56:14
Q3552-04	S	Total CN	P	-0.3801 µg/l	11/7/2025 15:56:15
Q3552-05	S	Total CN	P	1.226 µg/l	11/7/2025 15:56:16
Q3562-01	S	Total CN	P	0.1239 µg/l	11/7/2025 16:33:58
Q3564-01	S	Total CN	P	-0.0511 µg/l	11/7/2025 16:34:00
PB170441BL	S	Total CN	P	-0.3368 µg/l	11/7/2025 16:34:03
PB170441BS	S	Total CN	P	98.9657 µg/l	11/7/2025 16:34:04
CCV5	S	Total CN	P	256.8662 µg/l	11/7/2025 16:38:46
CCB5	S	Total CN	P	-0.4056 µg/l	11/7/2025 16:38:48

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Calibration results Aquakem 7.2AQ1 Page:

Alliance Technical Group
284 Sheffield Street, Mountainside, NJ 07092

11/7/2025 13:10

Reviewed by : RM Instrument ID : Konelab

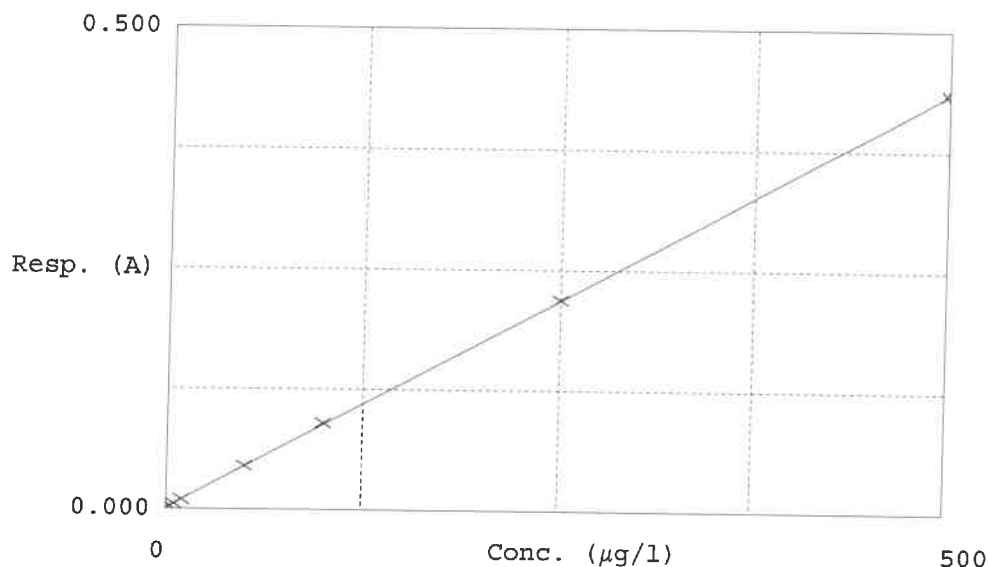
Test Total CN

Accepted 11/7/2025 13:10

Factor 1154
Bias 0.002

Coeff. of det. 0.999976

Errors



	Calibrator	Response	Calc. con.	Conc.	Errors
1	0.0PPBCN	0.001	-0.8269	0.0000	-
2	5.0PPBCN	0.005	4.3993	5.0000	-12.0
3	10PPBCN	0.010	9.6128	10.0000	-3.9
4	50PPBCN	0.045	50.1609	50.0000	0.3
5	100PPBCN	0.090	101.6932	100.0000	1.7
6	250PPBCN	0.219	250.6033	250.0000	0.2
7	500PPBCN	0.434	499.3574	500.0000	-0.1

11/07/2025
RM

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

SDG No : N/A

Start Digest Date: 11/06/2025 Time : 09:10 Temp : 380 °C

Matrix : WATER

End Digest Date: 11/06/2025 Time : 10:40 Temp : 385 °C

Pipette ID : WC

Start Distillation Date: 11/06/2025 Time : 11:30 Temp : 150 °C

Balance ID : N/A

End Distillation Date: 11/06/2025 Time : 12:30 Temp : 160 °C

Hood ID : HOOD#2&3

Digestion tube ID : M5595

Block Thermometer ID : Therm#2(2179)

Block ID : WC-DIST-BLOCK-1

Filter paper ID : N/A

Prep Technician Signature: RM

Weigh By : N/A

pH Meter ID : N/A

Supervisor Signature: 12

Standard Name	MLS USED	STD REF. # FROM LOG
TKN CAL STD	50.0ML	WP115506
TKN CCV STD	50.0ML	WP115507
TKN ICV STD	50.0ML	WP115508
TKN LCS STD	50.0ML	WP115509
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	WP115336
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

Extraction Conformance/Non-Conformance Comments:

RL CHECK 10ML FROM WP115507 ,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
11/06/2025 14:10	RM (WC)	RM (WC)
	Preparation Group	Analysis Group

Lab Sample ID	Client Sample ID	Initial Vol (ml)	Final Vol (ml)	pH	Sulfide	Oxidizing	Nitrate/ Nitrite	Comment	Prep Pos
PB170430BL	PBW430	50	50	<2	N/A	N/A	N/A	PH AFTER ADDING DIST BUFFER>11	N/A
PB170430BS	LCS430	50	50	<2	N/A	N/A	N/A	PH AFTER ADDING DIST BUFFER>11	N/A
Q3534-01	MW-6	50	50	<2	N/A	N/A	N/A	PH AFTER ADDING DIST BUFFER>11	N/A
Q3534-02	MW-1	50	50	<2	N/A	N/A	N/A	PH AFTER ADDING DIST BUFFER>11	N/A
Q3534-03	MW-11	50	50	<2	N/A	N/A	N/A	PH AFTER ADDING DIST BUFFER>11	N/A
Q3534-04	MW-5	50	50	<2	N/A	N/A	N/A	PH AFTER ADDING DIST BUFFER>11	N/A
Q3534-05	MW-EB-1	50	50	<2	N/A	N/A	N/A	PH AFTER ADDING DIST BUFFER>11	N/A
Q3534-06	MW-EB-2	50	50	<2	N/A	N/A	N/A	PH AFTER ADDING DIST BUFFER>11	N/A
Q3534-07	MW-EB-3	50	50	<2	N/A	N/A	N/A	PH AFTER ADDING DIST BUFFER>11	N/A
Q3537-03	MW-17-PURGE-WATER	50	50	<2	N/A	N/A	N/A	PH AFTER ADDING DIST BUFFER>11	N/A
Q3537-03DUP	MW-17-PURGE-WATERDUP	50	50	<2	N/A	N/A	N/A	PH AFTER ADDING DIST BUFFER>11	N/A
Q3537-03MS	MW-17-PURGE-WATERMS	50	50	<2	N/A	N/A	N/A	PH AFTER ADDING DIST BUFFER>11	N/A
Q3537-03MSD	MW-17-PURGE-WATERMSD	50	50	<2	N/A	N/A	N/A	PH AFTER ADDING DIST BUFFER>11	N/A
Q3541-01	N48969	50	50	<2	N/A	N/A	N/A	PH AFTER ADDING DIST BUFFER>11	N/A

WORKLIST(Hardcopy Internal Chain)

WorkList Name : AMMONIA-11-04

WorkList ID : 192914

Department : Distillation

Date : 11-05-2025 15:31:14

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q3537-03	MW-17-PURGE-WATER	Water	Ammonia	Conc H2SO4 to pH < 2	PSEG03	D41	11/04/2025	SM4500-NH3
Q3541-01	N48969	Water	Ammonia	Conc H2SO4 to pH < 2	PSEG03	D41	11/04/2025	SM4500-NH3
Q3551-04	MANHOLE	Water	Ammonia	Conc H2SO4 to pH < 2	SPEC01	D41	11/05/2025	SM4500-NH3
Q3554-05	INFLUENT	Water	Ammonia	Conc H2SO4 to pH < 2	HOLL01	D41	11/05/2025	SM4500-NH3

Date/Time 11/06/2025 08:00
 Raw Sample Received by: RM (WC)
 Raw Sample Relinquished by: JM (WC)

Date/Time 11/06/2025 11:00
 Raw Sample Received by: JM (WC)
 Raw Sample Relinquished by: RM (WC)

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

SDG No : N/A

Matrix : WATER

Pipette ID : WC

Balance ID : N/A

Hood ID : HOOD#1

Block ID : MC-1,MC-2

Weigh By : N/A

Start Digest Date: 11/07/2025 Time : 10:15 Temp : 124 °C

End Digest Date: 11/07/2025 Time : 11:45 Temp : 127 °C

17 batch 11/07/2025 12-10 124°C
11/07/2025 13:40 128°C

Digestion tube ID : M5595

Block Thermometer ID : WC CYANIDE

Filter paper ID : N/A

Prep Technician Signature:

pH Meter ID : N/A

Supervisor Signature:

Standard Name	MLS USED	STD REF. # FROM LOG
LCSW	1.0ML	WP113838
MS/MSD SPIKE SOL.	0.40ML	WP113837
PBW	50.0ML	W3112
MDL	2.0ML	WP115433
MDL	1.25ML	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	N/A	WP115335
pH Paper 0-14	N/A	W3241
Nitrate/Nitrite Strip	N/A	W3182
Lead Acetate strip	N/A	W3134
KI-starch paper	N/A	W3155
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

LAB SAMPLE ID	CLIENT SAMPLE ID	Wt(g)/Vol(ml)	Comment
S0	S0	N/A	N/A
S5.0	S5.0	N/A	N/A
S10.0	S10.0	N/A	N/A
S100.0	S100.0	N/A	N/A
S250.0	S250.0	N/A	N/A
S500.0	S500.0	N/A	N/A
ICV	ICV	N/A	AS PER PB170440
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 PB170440
LOWSTD	LOWSTD	N/A	AS PER PB170440

Extraction Conformance/Non-Conformance Comments:

N/A

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
11/07/2025 13:55	JP / WC	RM (WC)
	Preparation Group	Analysis Group

Lab Sample ID	Client Sample ID	Initial Vol (ml)	Final Vol (ml)	pH	Sulfide	Oxidizing	Nitrate/ Nitrite	Comment	Prep Pos
PB170441BL	PBW441	1.00	50	N/A	N/A	N/A	N/A	N/A	N/A
PB170441BS	LCS441	1.00	50	N/A	N/A	N/A	N/A	N/A	N/A
Q3530-09	MDL-WATER-03-QT4-2025	1.00	50	N/A	N/A	N/A	N/A	N/A	N/A
Q3534-01	MW-6	1.02	50	N/A	N/A	N/A	N/A	N/A	N/A
Q3534-01DUP	MW-6DUP	1.02	50	N/A	N/A	N/A	N/A	N/A	N/A
Q3534-01MS	MW-6MS	1.03	50	N/A	N/A	N/A	N/A	N/A	N/A
Q3534-01MSD	MW-6MSD	1.01	50	N/A	N/A	N/A	N/A	N/A	N/A
Q3534-02	MW-1	1.01	50	N/A	N/A	N/A	N/A	N/A	N/A
Q3534-03	MW-11	1.04	50	N/A	N/A	N/A	N/A	N/A	N/A
Q3534-04	MW-5	1.02	50	N/A	N/A	N/A	N/A	N/A	N/A
Q3534-05	MW-EB-1	1.01	50	N/A	N/A	N/A	N/A	N/A	N/A
Q3534-06	MW-EB-2	1.02	50	N/A	N/A	N/A	N/A	N/A	N/A
Q3534-07	MW-EB-3	1.01	50	N/A	N/A	N/A	N/A	N/A	N/A
Q3534-09	FB-1	1.01	50	N/A	N/A	N/A	N/A	N/A	N/A
Q3534-10	EB-1	1.04	50	N/A	N/A	N/A	N/A	N/A	N/A
Q3552-01	MW-4	1.01	50	N/A	N/A	N/A	N/A	N/A	N/A
Q3552-02	MW-8	1.04	50	N/A	N/A	N/A	N/A	N/A	N/A
Q3552-03	MW-9	1.02	50	N/A	N/A	N/A	N/A	N/A	N/A
Q3552-04	MW-10	1.02	50	N/A	N/A	N/A	N/A	N/A	N/A
Q3552-05	MW-3	1.04	50	N/A	N/A	N/A	N/A	N/A	N/A

WORKLIST(Hardcopy Internal Chain)

WorkList Name : CN WATER-1107

WorkList ID : 192975

Department : Distillation

Date : 11-07-2025 07:28:58

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q3530-09	MDL-WATER-03-QT4-2025	Water	Cyanide	1:1 NaOH to pH >12	ALLI03	QA Of	11/03/2025	9012B
Q3534-01	MW-6	Water	Cyanide	1:1 NaOH to pH >12	REMI02	D31	11/03/2025	9012B
Q3534-02	MW-1	Water	Cyanide	1:1 NaOH to pH >12	REMI02	D31	11/03/2025	9012B
Q3534-03	MW-11	Water	Cyanide	1:1 NaOH to pH >12	REMI02	D31	11/03/2025	9012B
Q3534-04	MW-5	Water	Cyanide	1:1 NaOH to pH >12	REMI02	D31	11/03/2025	9012B
Q3534-05	MW-EB-1	Water	Cyanide	1:1 NaOH to pH >12	REMI02	D31	11/04/2025	9012B
Q3534-06	MW-EB-2	Water	Cyanide	1:1 NaOH to pH >12	REMI02	D31	11/03/2025	9012B
Q3534-07	MW-EB-3	Water	Cyanide	1:1 NaOH to pH >12	REMI02	D31	11/04/2025	9012B
Q3534-09	FB-1	Water	Cyanide	1:1 NaOH to pH >12	REMI02	D31	11/03/2025	9012B
Q3534-10	EB-1	Water	Cyanide	1:1 NaOH to pH >12	REMI02	D31	11/04/2025	9012B
Q3552-01	MW-4	Water	Cyanide	1:1 NaOH to pH >12	REMI02	D41	11/04/2025	9012B
Q3552-02	MW-8	Water	Cyanide	1:1 NaOH to pH >12	REMI02	D41	11/04/2025	9012B
Q3552-03	MW-9	Water	Cyanide	1:1 NaOH to pH >12	REMI02	D41	11/04/2025	9012B
Q3552-04	MW-10	Water	Cyanide	1:1 NaOH to pH >12	REMI02	D41	11/04/2025	9012B
Q3552-05	MW-3	Water	Cyanide	1:1 NaOH to pH >12	REMI02	D41	11/05/2025	9012B
					REMI02	D41	11/04/2025	9012B

Date/Time 11/07/2025 07:35
 Raw Sample Received by: CP 5201
 Raw Sample Relinquished by: CP 5201

Date/Time 11/07/2025 17:00
 Raw Sample Received by: CP 5201
 Raw Sample Relinquished by: CP 5201

Instrument ID: IC-1

Daily Analysis Runlog For Sequence/QC Batch ID # LB137763

Review By	rubina	Review On	11/5/2025 4:42:04 PM
Supervise By	Iwona	Supervise On	11/5/2025 4:43:51 PM
SubDirectory	LB137763	Test	Anions
STD. NAME	STD REF.#		
ICAL Standard	WP115441,WP115442,WP115443,WP115444,WP115445,WP115446,WP115447		
ICV Standard	WP115448		
CCV Standard	WP115451,WP115470		
ICSA Standard	N/A		
CRI Standard	N/A		
LCS Standard	WP115452,WP115471		
Chk Standard	WP115449,WP115450,WP115472,WP115473,WP115474		

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	11/04/25 16:16		RM/IZ	OK
11	CCB1	CCB1	CCB	11/04/25 16:37		RM/IZ	OK
12	LB137763BLW	LB137763BLW	MB	11/04/25 16:59		RM/IZ	OK
13	LB137763BSW	LB137763BSW	LCS	11/04/25 17:20		RM/IZ	OK
14	Q3534-01	MW-6	SAM	11/04/25 18:03		RM/IZ	OK
15	Q3534-02	MW-1	SAM	11/04/25 18:25		RM/IZ	OK
16	Q3534-03	MW-11	SAM	11/04/25 18:46		RM/IZ	OK
17	Q3534-04	MW-5	SAM	11/04/25 19:08		RM/IZ	OK
18	Q3534-05	MW-EB-1	SAM	11/04/25 19:29		RM/IZ	OK

Instrument ID: IC-1

Daily Analysis Runlog For Sequence/QC Batch ID # LB137763

Review By	rubina	Review On	11/5/2025 4:42:04 PM
Supervise By	Iwona	Supervise On	11/5/2025 4:43:51 PM
SubDirectory	LB137763	Test	Anions
STD. NAME	STD REF.#		
ICAL Standard	WP115441,WP115442,WP115443,WP115444,WP115445,WP115446,WP115447		
ICV Standard	WP115448		
CCV Standard	WP115451,WP115470		
ICSA Standard	N/A		
CRI Standard	N/A		
LCS Standard	WP115452,WP115471		
Chk Standard	WP115449,WP115450,WP115472,WP115473,WP115474		

19	Q3534-06	MW-EB-2	SAM	11/04/25 19:51		RM/IZ	OK
20	Q3534-07	MW-EB-3	SAM	11/04/25 20:12		RM/IZ	OK
21	CCV2	CCV2	CCV	11/04/25 21:17	CCV fail for OPO4	RM/IZ	OK
22	CCB2	CCB2	CCB	11/04/25 21:39		RM/IZ	OK
23	CCV3	CCV3	CCV	11/05/25 09:50		RM/IZ	OK
24	CCB3	CCB3	CCB	11/05/25 10:11		RM/IZ	OK
25	LB137763BLW2	LB137763BLW2	MB	11/05/25 10:33		RM/IZ	OK
26	LB137763BSW2	LB137763BSW2	LCS	11/05/25 10:54		RM/IZ	OK
27	Q3537-03	MW-17-PURGE-WAT	SAM	11/05/25 11:16		RM/IZ	OK
28	Q3537-03MS	MW-17-PURGE-WAT	MS	11/05/25 11:37	9.5ml of sample, 0.5mL W3096	RM/IZ	OK
29	Q3537-03MSD	MW-17-PURGE-WAT	MSD	11/05/25 11:59	9.5ml of sample, 0.5mL W3096	RM/IZ	OK
30	Q3541-01	N48969	SAM	11/05/25 12:20		RM/IZ	OK
31	Q3530-08	LOQ-WATER-02-QT4	LOQ	11/05/25 12:42		RM/IZ	OK
32	Q3530-07	LOD-MDL-WATER-01	SAM	11/05/25 13:04		RM/IZ	OK
33	Q3530-07RE	LOD-MDL-WATER-01	SAM	11/05/25 13:25		RM/IZ	OK
34	CCV4	CCV4	CCV	11/05/25 13:47		RM/IZ	OK
35	CCB4	CCB4	CCB	11/05/25 14:08		RM/IZ	OK

Instrument ID: SPECTROPHOTOMETER-1

Daily Analysis Runlog For Sequence/QC Batch ID # LB137766

Review By	rubina	Review On	11/5/2025 10:29:35 AM
Supervise By	Iwona	Supervise On	11/5/2025 10:29:55 AM
SubDirectory	LB137766	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	WP115461,WP115460,WP115458,WP115457,WP115393,WP115340,WP115465,WP115466,WP115459,WP115464,V		

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	CAL1	CAL1	CAL	11/04/25 16:40		rubina	OK
2	CAL2	CAL2	CAL	11/04/25 16:40		rubina	OK
3	CAL3	CAL3	CAL	11/04/25 16:41		rubina	OK
4	CAL4	CAL4	CAL	11/04/25 16:41		rubina	OK
5	CAL5	CAL5	CAL	11/04/25 16:42		rubina	OK
6	CAL6	CAL6	CAL	11/04/25 16:42		rubina	OK
7	CAL7	CAL7	CAL	11/04/25 16:43		rubina	OK
8	ICV	ICV	ICV	11/04/25 16:43		rubina	OK
9	ICB	ICB	ICB	11/04/25 16:44		rubina	OK
10	CCV1	CCV1	CCV	11/04/25 16:44		rubina	OK
11	CCB1	CCB1	CCB	11/04/25 16:45		rubina	OK
12	RL Check	RL Check	RL	11/04/25 16:45		rubina	OK
13	Ib137766BL	Ib137766BL	MB	11/04/25 16:46		rubina	OK
14	Ib137766BS	Ib137766BS	LCS	11/04/25 16:46		rubina	OK
15	Q3530-07	LOD-MDL-WATER-01	SAM	11/04/25 16:47		rubina	OK
16	Q3530-08	LOQ-WATER-02-QT4	SAM	11/04/25 16:47		rubina	OK
17	Q3534-01	MW-6	SAM	11/04/25 16:48		rubina	OK
18	Q3534-02	MW-1	SAM	11/04/25 16:48		rubina	OK

Instrument ID: SPECTROPHOTOMETER-1

Daily Analysis Runlog For Sequence/QC Batch ID # LB137766

Review By	rubina	Review On	11/5/2025 10:29:35 AM
Supervise By	Iwona	Supervise On	11/5/2025 10:29:55 AM
SubDirectory	LB137766	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	WP115461,WP115460,WP115458,WP115457,WP115393,WP115340,WP115465,WP115466,WP115459,WP115464,V		

19	Q3534-03	MW-11	SAM	11/04/25 16:49		rubina	OK
20	Q3534-04	MW-5	SAM	11/04/25 16:49		rubina	OK
21	Q3534-05	MW-EB-1	SAM	11/04/25 16:50		rubina	OK
22	Q3534-06	MW-EB-2	SAM	11/04/25 16:50		rubina	OK
23	CCV2	CCV2	CCV	11/04/25 16:51		rubina	OK
24	CCB2	CCB2	CCB	11/04/25 16:51		rubina	OK
25	Q3534-07	MW-EB-3	SAM	11/04/25 16:52		rubina	OK
26	Q3534-07DUP	MW-EB-3DUP	DUP	11/04/25 16:52		rubina	OK
27	Q3534-07MS	MW-EB-3MS	MS	11/04/25 16:53	2ML WP113880+98.0ML SAMPLE	rubina	OK
28	Q3534-07MSD	MW-EB-3MSD	MSD	11/04/25 16:53	2ML WP113880+98.0ML SAMPLE	rubina	OK
29	Q3534-09	FB-1	SAM	11/04/25 16:54		rubina	OK
30	CCV3	CCV3	CCV	11/04/25 16:54		rubina	OK
31	CCB3	CCB3	CCB	11/04/25 16:55		rubina	OK

Instrument ID: WC SC-3

Daily Analysis Runlog For Sequence/QC Batch ID # LB137775

Review By	jignesh	Review On	11/6/2025 10:32:55 AM
Supervise By	rubina	Supervise On	11/6/2025 12:05:16 PM
SubDirectory	LB137775	Test	TDS
STD. NAME	STD REF.#		
ICAL Standard	N/A		
ICV Standard	N/A		
CCV Standard	N/A		
ICSA Standard	N/A		
CRI Standard	N/A		
LCS Standard	N/A		
Chk Standard	N/A		

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	LB137775BL	LB137775BL	MB	11/05/25 11:30		jignesh	OK
2	LB137775BS	LB137775BS	LCS	11/05/25 11:30	WP115490	jignesh	OK
3	Q3534-01	MW-6	SAM	11/05/25 11:30		jignesh	OK
4	Q3534-02	MW-1	SAM	11/05/25 11:30		jignesh	OK
5	Q3534-03	MW-11	SAM	11/05/25 11:30		jignesh	OK
6	Q3534-04	MW-5	SAM	11/05/25 11:30		jignesh	OK
7	Q3534-05	MW-EB-1	SAM	11/05/25 11:30		jignesh	OK
8	Q3534-06	MW-EB-2	SAM	11/05/25 11:30		jignesh	OK
9	Q3534-07	MW-EB-3	SAM	11/05/25 11:30		jignesh	OK
10	Q3534-07DUP	MW-EB-3DUP	DUP	11/05/25 11:30		jignesh	OK

Instrument ID: WC PH METER-1

Daily Analysis Runlog For Sequence/QC Batch ID # LB137776

Review By	jignesh	Review On	11/5/2025 10:19:09 AM
Supervise By	Iwona	Supervise On	11/5/2025 10:52:58 AM
SubDirectory	LB137776	Test	pH
STD. NAME	STD REF.#		
ICAL Standard	N/A		
ICV Standard	N/A		
CCV Standard	N/A		
ICSA Standard	N/A		
CRI Standard	N/A		
LCS Standard	N/A		
Chk Standard	W3178,W3093,W3191,W3217,W3161,W3200		

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	CAL1	CAL1	CAL	11/05/25 10:10		jignesh	OK
2	CAL2	CAL2	CAL	11/05/25 10:11		jignesh	OK
3	CAL3	CAL3	CAL	11/05/25 10:14		jignesh	OK
4	ICV	ICV	ICV	11/05/25 10:15		jignesh	OK
5	CCV1	CCV1	CCV	11/05/25 10:19		jignesh	OK
6	Q3534-01	MW-6	SAM	11/05/25 10:25		jignesh	OK
7	Q3534-02	MW-1	SAM	11/05/25 10:26		jignesh	OK
8	Q3534-03	MW-11	SAM	11/05/25 10:33		jignesh	OK
9	Q3534-04	MW-5	SAM	11/05/25 10:37		jignesh	OK
10	Q3534-05	MW-EB-1	SAM	11/05/25 10:40		jignesh	OK
11	Q3534-06	MW-EB-2	SAM	11/05/25 10:47		jignesh	OK
12	Q3534-07	MW-EB-3	SAM	11/05/25 10:50		jignesh	OK
13	Q3537-03	MW-17-PURGE-WAT	SAM	11/05/25 11:00		jignesh	OK
14	Q3541-01	N48969	SAM	11/05/25 11:10		jignesh	OK
15	Q3542-01	AUD-25-182-194	SAM	11/05/25 11:20		jignesh	OK
16	CCV2	CCV2	CCV	11/05/25 11:25		jignesh	OK
17	Q3542-01DUP	AUD-25-182-194DUP	DUP	11/05/25 11:27		jignesh	OK
18	CCV3	CCV3	CCV	11/05/25 11:30		jignesh	OK

Instrument ID: DO METER

Daily Analysis Runlog For Sequence/QC Batch ID # LB137780

Review By	rubina	Review On	11/10/2025 3:42:36 PM
Supervise By	Iwona	Supervise On	11/10/2025 3:45:40 PM
SubDirectory	LB137780	Test	BOD5
STD. NAME	STD REF.#		
ICAL Standard	N/A		
ICV Standard	N/A		
CCV Standard	N/A		
ICSA Standard	N/A		
CRI Standard	N/A		
LCS Standard	N/A		
Chk Standard	WP115467, W3149, WP115342, W3103, W3109, W3248, WP115469, WP115468, WP113878		

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	LB137780BL	LB137780BL	MB	11/05/25 10:10		rubina	OK
2	LB137780BS	LB137780BS	LCS	11/05/25 10:10		rubina	OK
3	Q3534-01	MW-6	SAM	11/05/25 10:10		rubina	OK
4	Q3534-02	MW-1	SAM	11/05/25 10:10		rubina	OK
5	Q3534-03	MW-11	SAM	11/05/25 10:10		rubina	OK
6	Q3534-04	MW-5	SAM	11/05/25 10:10		rubina	OK
7	Q3534-05	MW-EB-1	SAM	11/05/25 10:10		rubina	OK
8	Q3534-06	MW-EB-2	SAM	11/05/25 10:10		rubina	OK
9	Q3534-07	MW-EB-3	SAM	11/05/25 10:10		rubina	OK
10	Q3537-03	MW-17-PURGE-WAT	SAM	11/05/25 10:10		rubina	OK
11	Q3537-03DUP	MW-17-PURGE-WAT	DUP	11/05/25 10:10		rubina	OK
12	Q3541-01	N48969	SAM	11/05/25 10:10		rubina	OK

Instrument ID: SPECTROPHOTOMETER-1

Daily Analysis Runlog For Sequence/QC Batch ID # LB137790

Review By	rubina	Review On	11/6/2025 9:40:03 AM
Supervise By	jignesh	Supervise On	11/6/2025 2:26:30 PM
SubDirectory	LB137790	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	WP115485,WP115484,WP115489,WP115482,WP115393,WP115340,WP115483,WP115488,WP115486,WP115487		

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	CAL1	CAL1	CAL	11/05/25 10:00		rubina	OK
2	CAL2	CAL2	CAL	11/05/25 10:00		rubina	OK
3	CAL3	CAL3	CAL	11/05/25 10:01		rubina	OK
4	CAL4	CAL4	CAL	11/05/25 10:01		rubina	OK
5	CAL5	CAL5	CAL	11/05/25 10:02		rubina	OK
6	CAL6	CAL6	CAL	11/05/25 10:02		rubina	OK
7	CAL7	CAL7	CAL	11/05/25 10:03		rubina	OK
8	ICV	ICV	ICV	11/05/25 10:03		rubina	OK
9	ICB	ICB	ICB	11/05/25 10:04		rubina	OK
10	CCV1	CCV1	CCV	11/05/25 10:04		rubina	OK
11	CCB1	CCB1	CCB	11/05/25 10:05		rubina	OK
12	RL Check	RL Check	RL	11/05/25 10:05		rubina	OK
13	LB137790BL	LB137790BL	MB	11/05/25 10:06		rubina	OK
14	LB137790BS	LB137790BS	LCS	11/05/25 10:06		rubina	OK
15	Q3534-10	EB-1	SAM	11/05/25 10:07		rubina	OK
16	CCV2	CCV2	CCV	11/05/25 10:07		rubina	OK
17	CCB2	CCB2	CCB	11/05/25 10:08		rubina	OK

Instrument ID: KONELAB

Daily Analysis Runlog For Sequence/QC Batch ID # LB137809

Review By	rubina	Review On	11/7/2025 8:55:26 AM
Supervise By	Iwona	Supervise On	11/7/2025 8:55:35 AM
SubDirectory	LB137809	Test	TKN
STD. NAME	STD REF.#		
ICAL Standard	WP115506		
ICV Standard	WP115508		
CCV Standard	WP115507		
ICSA Standard	N/A		
CRI Standard	N/A		
LCS Standard	WP115509		
Chk Standard	WP115290,WP114133,WP113929,WP114132		

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	0.0PPM	0.0PPM	CAL1	11/06/25 14:29		rubina	OK
2	0.5PPM	0.5PPM	CAL2	11/06/25 14:29		rubina	OK
3	1.0PPM	1.0PPM	CAL3	11/06/25 14:29		rubina	OK
4	2.5PPM	2.5PPM	CAL4	11/06/25 14:29		rubina	OK
5	5.0PPM	5.0PPM	CAL5	11/06/25 14:29		rubina	OK
6	6.7PPM	6.7PPM	CAL6	11/06/25 14:29		rubina	OK
7	10.0PPM	10.0PPM	CAL7	11/06/25 14:29		rubina	OK
8	ICV1	ICV1	ICV	11/06/25 15:31		rubina	OK
9	ICB1	ICB1	ICB	11/06/25 15:31		rubina	OK
10	CCV1	CCV1	CCV	11/06/25 15:31		rubina	OK
11	CCB1	CCB1	CCB	11/06/25 15:31		rubina	OK
12	RL	RL	LOQ	11/06/25 15:31		rubina	OK
13	PB170430BL	PB170430BL	MB	11/06/25 15:42		rubina	OK
14	PB170430BS	PB170430BS	LCS	11/06/25 15:42		rubina	OK
15	Q3534-01	MW-6	SAM	11/06/25 15:42		rubina	OK
16	Q3534-02	MW-1	SAM	11/06/25 15:42		rubina	OK
17	Q3534-03	MW-11	SAM	11/06/25 15:42		rubina	OK
18	Q3534-04	MW-5	SAM	11/06/25 15:42		rubina	OK

Instrument ID: KONELAB

Daily Analysis Runlog For Sequence/QC Batch ID # LB137809

Review By	rubina	Review On	11/7/2025 8:55:26 AM
Supervise By	Iwona	Supervise On	11/7/2025 8:55:35 AM
SubDirectory	LB137809	Test	TKN
STD. NAME	STD REF.#		
ICAL Standard	WP115506		
ICV Standard	WP115508		
CCV Standard	WP115507		
ICSA Standard	N/A		
CRI Standard	N/A		
LCS Standard	WP115509		
Chk Standard	WP115290,WP114133,WP113929,WP114132		

19	Q3534-05	MW-EB-1	SAM	11/06/25 15:42		rubina	OK
20	Q3534-06	MW-EB-2	SAM	11/06/25 15:42		rubina	OK
21	Q3534-07	MW-EB-3	SAM	11/06/25 15:42		rubina	OK
22	CCV2	CCV2	CCV	11/06/25 15:52		rubina	OK
23	CCB2	CCB2	CCB	11/06/25 15:52		rubina	OK
24	Q3537-03	MW-17-PURGE-WAT	SAM	11/06/25 15:53		rubina	OK
25	Q3537-03DUP	MW-17-PURGE-WAT	DUP	11/06/25 15:53		rubina	OK
26	Q3537-03MS	MW-17-PURGE-WAT	MS	11/06/25 15:53		rubina	OK
27	Q3537-03MSD	MW-17-PURGE-WAT	MSD	11/06/25 15:53		rubina	OK
28	Q3541-01	N48969	SAM	11/06/25 16:00		rubina	OK
29	CCV3	CCV3	CCV	11/06/25 16:00		rubina	OK
30	CCB3	CCB3	CCB	11/06/25 16:00		rubina	OK
31	Q3534-01DL	MW-6DL	SAM	11/06/25 16:25		rubina	OK
32	Q3534-04DL	MW-5DL	SAM	11/06/25 16:25		rubina	OK
33	Q3534-05DL	MW-EB-1DL	SAM	11/06/25 16:25		rubina	OK
34	CCV4	CCV4	CCV	11/06/25 16:25		rubina	OK
35	CCB4	CCB4	CCB	11/06/25 16:25		rubina	OK

Instrument ID: WC SC-3

Daily Analysis Runlog For Sequence/QC Batch ID # LB137814

Review By	jignesh	Review On	11/7/2025 11:34:19 AM
Supervise By	Iwona	Supervise On	11/7/2025 1:13:12 PM
SubDirectory	LB137814	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,M6069,EP2655,WP115016,N/A,N/A,WP115017,N/A,WP115018		

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	LB137814BL	LB137814BL	MB	11/07/25 10:30		jignesh	OK
2	LB137814BS	LB137814BS	LCS	11/07/25 10:30		jignesh	OK
3	Q3442-01	SW-1	SAM	11/07/25 10:30		jignesh	OK
4	Q3498-01	GREASE	SAM	11/07/25 10:30		jignesh	OK
5	Q3507-01	SW-1	SAM	11/07/25 10:30		jignesh	OK
6	Q3508-01	SW-1	SAM	11/07/25 10:30		jignesh	OK
7	Q3510-01	OUTFALL-002	SAM	11/07/25 10:30		jignesh	OK
8	Q3511-01	OUTFALL-001	SAM	11/07/25 10:30		jignesh	OK
9	Q3511-02	OUTFALL-002	SAM	11/07/25 10:30		jignesh	OK
10	Q3530-07	LOD-MDL-WATER-01	SAM	11/07/25 10:30	add 0.25 WP115017	jignesh	OK
11	Q3530-08	LOQ-WATER-02-QT4	SAM	11/07/25 10:30	ADD 0.625 WP115018	jignesh	OK
12	Q3534-01	MW-6	SAM	11/07/25 10:30		jignesh	OK
13	Q3534-02	MW-1	SAM	11/07/25 10:30		jignesh	OK
14	Q3534-03	MW-11	SAM	11/07/25 10:30		jignesh	OK
15	Q3534-04	MW-5	SAM	11/07/25 10:30		jignesh	OK
16	Q3534-05	MW-EB-1	SAM	11/07/25 10:30		jignesh	OK
17	Q3534-06	MW-EB-2	SAM	11/07/25 10:30		jignesh	OK
18	Q3534-07	MW-EB-3	SAM	11/07/25 10:30		jignesh	OK

Instrument ID: WC SC-3

Daily Analysis Runlog For Sequence/QC Batch ID # LB137814

Review By	jignesh	Review On	11/7/2025 11:34:19 AM
Supervise By	Iwona	Supervise On	11/7/2025 1:13:12 PM
SubDirectory	LB137814	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,M6069,EP2655,WP115016,N/A,N/A,WP115017,N/A,WP115018		

19	Q3534-09	FB-1	SAM	11/07/25 10:30		jignesh	OK
20	Q3534-10	EB-1	SAM	11/07/25 10:30		jignesh	OK
21	Q3551-01	MANHOLE	SAM	11/07/25 10:30		jignesh	OK
22	Q3551-02	Q3551-01MS	MS	11/07/25 10:30		jignesh	OK
23	Q3551-03	Q3551-01MSD	MSD	11/07/25 10:30		jignesh	OK
24	Q3552-01	MW-4	SAM	11/07/25 10:30		jignesh	OK
25	Q3552-02	MW-8	SAM	11/07/25 10:30		jignesh	OK
26	Q3552-03	MW-9	SAM	11/07/25 10:30		jignesh	OK
27	Q3552-04	MW-10	SAM	11/07/25 10:30		jignesh	OK
28	Q3552-05	MW-3	SAM	11/07/25 10:30		jignesh	OK
29	Q3554-01	EFFLUENT	SAM	11/07/25 10:30		jignesh	OK
30	Q3554-02	Q3554-01MS	MS	11/07/25 10:30		jignesh	OK
31	Q3554-03	Q3554-01MSD	MSD	11/07/25 10:30		jignesh	OK

Instrument ID: SPECTROPHOTOMETER-2

Daily Analysis Runlog For Sequence/QC Batch ID # LB137820

Review By	Iwona	Review On	11/7/2025 1:31:14 PM
Supervise By	jignesh	Supervise On	11/7/2025 1:33:52 PM
SubDirectory	LB137820	Test	COD
STD. NAME	STD REF.#		
ICAL Standard	N/A		
ICV Standard	N/A		
CCV Standard	N/A		
ICSA Standard	N/A		
CRI Standard	N/A		
LCS Standard	N/A		
Chk Standard	WP114659,WP114658,WP114656,WP114655,WP114654,WP114661,WP114657,W3230,WP115438,WP115439,WP1		

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	CAL1	CAL1	CAL	09/08/25 13:30		Iwona	OK
2	CAL2	CAL2	CAL	09/08/25 13:30		Iwona	OK
3	CAL3	CAL3	CAL	09/08/25 13:31		Iwona	OK
4	CAL4	CAL4	CAL	09/08/25 13:31		Iwona	OK
5	CAL5	CAL5	CAL	09/08/25 13:32		Iwona	OK
6	CAL6	CAL6	CAL	09/08/25 13:32		Iwona	OK
7	ICV	ICV	ICV	09/08/25 13:33		Iwona	OK
8	ICB	ICB	ICB	09/08/25 13:33		Iwona	OK
9	CCV1	CCV1	CCV	11/07/25 13:05		Iwona	OK
10	CCB1	CCB1	CCB	11/07/25 13:05		Iwona	OK
11	RL Check	RL Check	RL	11/07/25 13:06		Iwona	OK
12	LB137820BL	LB137820BL	MB	11/07/25 13:06		Iwona	OK
13	LB137820BS	LB137820BS	LCS	11/07/25 13:07		Iwona	OK
14	Q3530-09	MDL-WATER-03-QT4	SAM	11/07/25 13:07		Iwona	OK
15	Q3534-01	MW-6	SAM	11/07/25 13:08		Iwona	OK
16	Q3534-02	MW-1	SAM	11/07/25 13:08		Iwona	OK
17	Q3534-03	MW-11	SAM	11/07/25 13:09		Iwona	OK
18	Q3534-04	MW-5	SAM	11/07/25 13:09		Iwona	OK

Instrument ID: SPECTROPHOTOMETER-2

Daily Analysis Runlog For Sequence/QCBatch ID # LB137820

Review By	Iwona	Review On	11/7/2025 1:31:14 PM
Supervise By	jignesh	Supervise On	11/7/2025 1:33:52 PM
SubDirectory	LB137820	Test	COD
STD. NAME	STD REF.#		
ICAL Standard	N/A		
ICV Standard	N/A		
CCV Standard	N/A		
ICSA Standard	N/A		
CRI Standard	N/A		
LCS Standard	N/A		
Chk Standard	WP114659,WP114658,WP114656,WP114655,WP114654,WP114661,WP114657,W3230,WP115438,WP115439,WP1		

19	Q3534-05	MW-EB-1	SAM	11/07/25 13:10		Iwona	OK
20	Q3534-06	MW-EB-2	SAM	11/07/25 13:10		Iwona	OK
21	Q3534-07	MW-EB-3	SAM	11/07/25 13:11		Iwona	OK
22	CCV2	CCV2	CCV	11/07/25 13:11		Iwona	OK
23	CCB2	CCB2	CCB	11/07/25 13:12		Iwona	OK
24	Q3537-03	MW-17-PURGE-WAT	SAM	11/07/25 13:12		Iwona	OK
25	Q3541-01	N48969	SAM	11/07/25 13:13		Iwona	OK
26	Q3541-01DUP	N48969DUP	DUP	11/07/25 13:13		Iwona	OK
27	Q3541-01MS	N48969MS	MS	11/07/25 13:14		Iwona	OK
28	Q3541-01MSD	N48969MSD	MSD	11/07/25 13:14		Iwona	OK
29	CCV3	CCV3	CCV	11/07/25 13:15		Iwona	OK
30	CCB3	CCB3	CCB	11/07/25 13:15		Iwona	OK

Instrument ID: KONELAB

Daily Analysis Runlog For Sequence/QC Batch ID # LB137830

Review By	rubina	Review On	11/10/2025 11:26:26 AM
Supervise By	Iwona	Supervise On	11/10/2025 11:56:56 AM
SubDirectory	LB137830	Test	Cyanide
STD. NAME	STD REF.#		
ICAL Standard	WP115526,WP115527,WP115528,WP115529,WP115530,WP115531,WP115532		
ICV Standard	W3012		
CCV Standard	WP115527		
ICSA Standard	N/A		
CRI Standard	N/A		
LCS Standard	WP113838		
Chk Standard	WP115157,WP114324,WP115534,WP115533		

Sr#	SampleID	ClientID	QcType	Date	Comment	Operator	Status
1	0.0PPBCN	0.0PPBCN	CAL1	11/07/25 13:08		rubina	OK
2	5.0PPBCN	5.0PPBCN	CAL2	11/07/25 13:08		rubina	OK
3	10PPBCN	10PPBCN	CAL3	11/07/25 13:08		rubina	OK
4	50PPBCN	50PPBCN	CAL4	11/07/25 13:08		rubina	OK
5	100PPBCN	100PPBCN	CAL5	11/07/25 13:08		rubina	OK
6	250PPBCN	250PPBCN	CAL6	11/07/25 13:08		rubina	OK
7	500PPBCN	500PPBCN	CAL7	11/07/25 13:08		rubina	OK
8	ICV1	ICV1	ICV	11/07/25 15:10		rubina	OK
9	ICB1	ICB1	ICB	11/07/25 15:10		rubina	OK
10	CCV1	CCV1	CCV	11/07/25 15:10		rubina	OK
11	CCB1	CCB1	CCB	11/07/25 15:10		rubina	OK
12	PB170440BL	PB170440BL	MB	11/07/25 15:10		rubina	OK
13	PB170440BS	PB170440BS	LCS	11/07/25 15:10		rubina	OK
14	LOWPB170440	LOWPB170440	SAM	11/07/25 15:18		rubina	OK
15	HIGHPB170440	HIGHPB170440	SAM	11/07/25 15:18		rubina	OK
16	Q3530-03	MDL-SOIL-03-QT4-20	SAM	11/07/25 15:18		rubina	OK
17	Q3530-03RE	MDL-SOIL-03-QT4-20	SAM	11/07/25 15:18		rubina	OK
18	Q3546-01	TP-COMP	SAM	11/07/25 15:25		rubina	OK

Instrument ID: KONELAB

Daily Analysis Runlog For Sequence/QC Batch ID # LB137830

Review By	rubina	Review On	11/10/2025 11:26:26 AM
Supervise By	Iwona	Supervise On	11/10/2025 11:56:56 AM
SubDirectory	LB137830	Test	Cyanide
STD. NAME	STD REF.#		
ICAL Standard	WP115526,WP115527,WP115528,WP115529,WP115530,WP115531,WP115532		
ICV Standard	W3012		
CCV Standard	WP115527		
ICSA Standard	N/A		
CRI Standard	N/A		
LCS Standard	WP113838		
Chk Standard	WP115157,WP114324,WP115534,WP115533		

19	Q3546-01DUP	TP-COMPDUP	DUP	11/07/25 15:25		rubina	OK
20	Q3546-01MS	TP-COMPMS	MS	11/07/25 15:25		rubina	OK
21	Q3546-01MSD	TP-COMPMSD	MSD	11/07/25 15:25		rubina	OK
22	CCV2	CCV2	CCV	11/07/25 15:25		rubina	OK
23	CCB2	CCB2	CCB	11/07/25 15:26		rubina	OK
24	Q3530-09	MDL-WATER-03-QT4	SAM	11/07/25 15:33		rubina	OK
25	Q3530-09RE	MDL-WATER-03-QT4	SAM	11/07/25 15:33		rubina	OK
26	Q3534-01	MW-6	SAM	11/07/25 15:33		rubina	OK
27	Q3534-01DUP	MW-6DUP	DUP	11/07/25 15:41		rubina	OK
28	Q3534-01MS	MW-6MS	MS	11/07/25 15:41		rubina	OK
29	Q3534-01MSD	MW-6MSD	MSD	11/07/25 15:41		rubina	OK
30	CCV3	CCV3	CCV	11/07/25 15:41		rubina	OK
31	CCB3	CCB3	CCB	11/07/25 15:41		rubina	OK
32	Q3534-02	MW-1	SAM	11/07/25 15:41		rubina	OK
33	Q3534-03	MW-11	SAM	11/07/25 15:41		rubina	OK
34	Q3534-04	MW-5	SAM	11/07/25 15:41		rubina	OK
35	Q3534-05	MW-EB-1	SAM	11/07/25 15:48		rubina	OK
36	Q3534-06	MW-EB-2	SAM	11/07/25 15:48		rubina	OK
37	Q3534-07	MW-EB-3	SAM	11/07/25 15:48		rubina	OK
38	Q3534-09	FB-1	SAM	11/07/25 15:48		rubina	OK

Instrument ID: KONELAB

Daily Analysis Runlog For Sequence/QC Batch ID # LB137830

Review By	rubina	Review On	11/10/2025 11:26:26 AM
Supervise By	Iwona	Supervise On	11/10/2025 11:56:56 AM
SubDirectory	LB137830	Test	Cyanide
STD. NAME	STD REF.#		
ICAL Standard	WP115526,WP115527,WP115528,WP115529,WP115530,WP115531,WP115532		
ICV Standard	W3012		
CCV Standard	WP115527		
ICSA Standard	N/A		
CRI Standard	N/A		
LCS Standard	WP113838		
Chk Standard	WP115157,WP114324,WP115534,WP115533		

39	Q3534-10	EB-1	SAM	11/07/25 15:48		rubina	OK
40	Q3552-01	MW-4	SAM	11/07/25 15:48		rubina	OK
41	Q3552-02	MW-8	SAM	11/07/25 15:48		rubina	OK
42	CCV4	CCV4	CCV	11/07/25 15:56		rubina	OK
43	CCB4	CCB4	CCB	11/07/25 15:56		rubina	OK
44	Q3552-03	MW-9	SAM	11/07/25 15:56		rubina	OK
45	Q3552-04	MW-10	SAM	11/07/25 15:56		rubina	OK
46	Q3552-05	MW-3	SAM	11/07/25 15:56		rubina	OK
47	Q3562-01	EO-03-110625	SAM	11/07/25 16:33		rubina	OK
48	Q3564-01	OR-03-11062025	SAM	11/07/25 16:34		rubina	OK
49	PB170441BL	PB170441BL	MB	11/07/25 16:34		rubina	OK
50	PB170441BS	PB170441BS	LCS	11/07/25 16:34		rubina	OK
51	CCV5	CCV5	CCV	11/07/25 16:38		rubina	OK
52	CCB5	CCB5	CCB	11/07/25 16:38		rubina	OK

Order ID :	Q3534
Test :	Anions Group1,BOD5,COD,Cyanide,Hexavalent Chromium,Oil and Grease,pH,TDS,TKN
Prepbatch ID :	PB170430,PB170441,
Sequence ID/Qc Batch ID:	LB137763,LB137766,LB137775,LB137776,LB137780,LB137790,LB137809,LB137814,LB137820,LB137821,LB137822,LB137823,LB137824,LB137825,LB137826,LB137827,LB137828,LB137829,LB137830,LB137831,LB137832,LB137833,LB137834,LB137835,LB137836,LB137837,LB137838,LB137839,LB137840,LB137841,LB137842,LB137843,LB137844,LB137845,LB137846,LB137847,LB137848,LB137849,LB137850,LB137851,LB137852,LB137853,LB137854,LB137855,LB137856,LB137857,LB137858,LB137859,LB137860,LB137861,LB137862,LB137863,LB137864,LB137865,LB137866,LB137867,LB137868,LB137869,LB137870,LB137871,LB137872,LB137873,LB137874,LB137875,LB137876,LB137877,LB137878,LB137879,LB137880,LB137881,LB137882,LB137883,LB137884,LB137885,LB137886,LB137887,LB137888,LB137889,LB137890,LB137891,LB137892,LB137893,LB137894,LB137895,LB137896,LB137897,LB137898,LB137899,LB137900,LB137901,LB137902,LB137903,LB137904,LB137905,LB137906,LB137907,LB137908,LB137909,LB137910,LB137911,LB137912,LB137913,LB137914,LB137915,LB137916,LB137917,LB137918,LB137919,LB137920,LB137921,LB137922,LB137923,LB137924,LB137925,LB137926,LB137927,LB137928,LB137929,LB137930,LB137931,LB137932,LB137933,LB137934,LB137935,LB137936,LB137937,LB137938,LB137939,LB137940,LB137941,LB137942,LB137943,LB137944,LB137945,LB137946,LB137947,LB137948,LB137949,LB137950,LB137951,LB137952,LB137953,LB137954,LB137955,LB137956,LB137957,LB137958,LB137959,LB137960,LB137961,LB137962,LB137963,LB137964,LB137965,LB137966,LB137967,LB137968,LB137969,LB137970,LB137971,LB137972,LB137973,LB137974,LB137975,LB137976,LB137977,LB137978,LB137979,LB137980,LB137981,LB137982,LB137983,LB137984,LB137985,LB137986,LB137987,LB137988,LB137989,LB137990,LB137991,LB137992,LB137993,LB137994,LB137995,LB137996,LB137997,LB137998,LB137999,LB138000,LB138001,LB138002,LB138003,LB138004,LB138005,LB138006,LB138007,LB138008,LB138009,LB138010,LB138011,LB138012,LB138013,LB138014,LB138015,LB138016,LB138017,LB138018,LB138019,LB138020,LB138021,LB138022,LB138023,LB138024,LB138025,LB138026,LB138027,LB138028,LB138029,LB138030,LB138031,LB138032,LB138033,LB138034,LB138035,LB138036,LB138037,LB138038,LB138039,LB138040,LB138041,LB138042,LB138043,LB138044,LB138045,LB138046,LB138047,LB138048,LB138049,LB138050,LB138051,LB138052,LB138053,LB138054,LB138055,LB138056,LB138057,LB138058,LB138059,LB138060,LB138061,LB138062,LB138063,LB138064,LB138065,LB138066,LB138067,LB138068,LB138069,LB138070,LB138071,LB138072,LB138073,LB138074,LB138075,LB138076,LB138077,LB138078,LB138079,LB138080,LB138081,LB138082,LB138083,LB138084,LB138085,LB138086,LB138087,LB138088,LB138089,LB138090,LB138091,LB138092,LB138093,LB138094,LB138095,LB138096,LB138097,LB138098,LB138099,LB138100,LB138101,LB138102,LB138103,LB138104,LB138105,LB138106,LB138107,LB138108,LB138109,LB138110,LB138111,LB138112,LB138113,LB138114,LB138115,LB138116,LB138117,LB138118,LB138119,LB138120,LB138121,LB138122,LB138123,LB138124,LB138125,LB138126,LB138127,LB138128,LB138129,LB138130,LB138131,LB138132,LB138133,LB138134,LB138135,LB138136,LB138137,LB138138,LB138139,LB138140,LB138141,LB138142,LB138143,LB138144,LB138145,LB138146,LB138147,LB138148,LB138149,LB138150,LB138151,LB138152,LB138153,LB138154,LB138155,LB138156,LB138157,LB138158,LB138159,LB138160,LB138161,LB138162,LB138163,LB138164,LB138165,LB138166,LB138167,LB138168,LB138169,LB138170,LB138171,LB138172,LB138173,LB138174,LB138175,LB138176,LB138177,LB138178,LB138179,LB138180,LB138181,LB138182,LB138183,LB138184,LB138185,LB138186,LB138187,LB138188,LB138189,LB138190,LB138191,LB138192,LB138193,LB138194,LB138195,LB138196,LB138197,LB138198,LB138199,LB138200,LB138201,LB138202,LB138203,LB138204,LB138205,LB138206,LB138207,LB138208,LB138209,LB138210,LB138211,LB138212,LB138213,LB138214,LB138215,LB138216,LB138217,LB138218,LB138219,LB138220,LB138221,LB138222,LB138223,LB138224,LB138225,LB138226,LB138227,LB138228,LB138229,LB138230,LB138231,LB138232,LB138233,LB138234,LB138235,LB138236,LB138237,LB138238,LB138239,LB138240,LB138241,LB138242,LB138243,LB138244,LB138245,LB138246,LB138247,LB138248,LB138249,LB138250,LB138251,LB138252,LB138253,LB138254,LB138255,LB138256,LB138257,LB138258,LB138259,LB138260,LB138261,LB138262,LB138263,LB138264,LB138265,LB138266,LB138267,LB138268,LB138269,LB138270,LB138271,LB138272,LB138273,LB138274,LB138275,LB138276,LB138277,LB138278,LB138279,LB138280,LB138281,LB138282,LB138283,LB138284,LB138285,LB138286,LB138287,LB138288,LB138289,LB138290,LB138291,LB138292,LB138293,LB138294,LB138295,LB138296,LB138297,LB138298,LB138299,LB138300,LB138301,LB138302,LB138303,LB138304,LB138305,LB138306,LB138307,LB138308,LB13830

EP2655,WP113135,WP113836,WP113837,WP113838,WP113878,WP113880,WP113881,WP113929,WP114132,WP114133,WP114324,WP114445,WP114652,WP114653,WP114654,WP114655,WP114656,WP114657,WP114658,WP114659,WP114661,WP115016,WP115017,WP115018,WP115085,WP115086,WP115157,WP115290,WP115334,WP115335,WP115336,WP115340,WP115342,WP115344,WP115393,WP115433,WP115434,WP115435,WP115436,WP115438,WP115439,WP115440,WP115441,WP115442,WP115443,WP115444,WP115445,WP115446,WP115447,WP115448,WP115449,WP115450,WP115451,WP115452,WP115456,WP115457,WP115458,WP115459,WP115460,WP115461,WP115462,WP115463,WP115464,WP115465,WP115466,WP115467,WP115468,WP115469,WP115470,WP115471,WP115472,WP115473,WP115474,WP115479,WP115482,WP115483,WP115484,WP115485,WP115486,WP115487,WP115488,WP115489,WP115506,WP115507,WP115508,WP115509,WP115525,WP115526,WP115527,WP115528,WP115529,WP115530,WP115531,WP115532,WP115533,WP115534.

E3875,E3972,E3979,M6041,M6069,M6151,M6186,W2647,W2651,W2652,W2653,W2654,W2663,W2666,W2668,W2817,W2871,W2979,W2983,W3009,W3012,W3019,W3082,W3093,W3103,W3109,W3112,W3113,W3132,W3139,W3148,W3149,W3152,W3161,W3163,W3169,W3178,W3180,W3182,W3191,W3195,W3196,W3197,W3199,W3200,W3203,W3214,W3217,W3219,W3222,W3224,W3230,W3240,W3241,W3247,W3248,W3252



<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
<u>FROM</u> 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>
619	TKN digestion solution	WP113135	05/20/2025	11/20/2025	Rubina Mughal	WETCHEM_SCALE_8 (WC SC-7)	None	Iwona Zarych 05/20/2025
<u>FROM</u>	134.00000gram of W2983 + 134.00000ml of M6041 + 7.30000gram of W3199 + 725.00000ml of W3112 = Final Quantity: 1000.000 ml							



<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 (WCS-7)	None	Iwona Zarych 07/08/2025
FROM 21.00000L of W3112 + 210.00000gram of W3113 = Final Quantity: 21.000 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>
3850	Cyanide MS-MSD spiking solution, 5PPM	WP113837	07/08/2025	11/30/2025	Rubina Mughal	None	WETCHEM_PIPETTE_3	Iwona Zarych
<u>FROM</u>		(WC)						
1.00000ml of W3214 + 199.00000ml of WP113836 = Final Quantity: 200.000 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>
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



<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_S CALE_5 (WC SC-5)	None	Iwona Zarych 07/10/2025
<u>FROM</u> 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_S CALE_5 (WC SC-5)	None	Iwona Zarych 07/10/2025
<u>FROM</u> 0.14140gram of W2652 + 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>
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
<u>FROM</u> 3.20000gram of W3113 + 8.30000gram of W2663 + 88.80000ml of W3112 = Final Quantity: 100.000 ml								

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
635	EDTA BUFFER FOR AMMONIA	WP114132	07/31/2025	12/31/2025	Rubina Mughal	WETCHEM_SCALE_8 (WC SC-7)	None	Iwona Zarych 07/31/2025
<u>FROM</u> 5.50000gram of W3113 + 50.00000gram of W3132 + 950.00000ml of W3112 = Final Quantity: 1000.000 ml								

Wet Chemistry STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
289	Sodium Hypochlorite for Ammonia	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>
607	PYRIDINE-BARBITURIC ACID	WP114324	08/19/2025	02/17/2026	Rubina Mughal	WETCHEM_S CALE_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_S CALE_8 (WC SC-7)	None	Iwona Zarych 09/03/2025
<u>FROM</u> 0.47500L of W3112 + 25.00000gram of W3148 + 500.00000gram of W3113 = Final Quantity: 1.000 L								

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
2456	COD Stock std, 1000ppm	WP114652	09/08/2025	09/15/2025	Iwona Zarych	WETCHEM_S CALE_5 (WC SC-5)	None	Jignesh Parikh 09/11/2025
<u>FROM</u> 0.08500gram of W3219 + 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>
2457	COD Stock std-SS, 1000ppm	WP114653	09/08/2025	09/15/2025	Iwona Zarych	WETCHEM_SCALE_5 (WC SC-5)	None	Jignesh Parikh
								09/11/2025

FROM 0.08500gram of W3169 + 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>
139	COD calibration std. 0 ppm	WP114654	09/08/2025	09/15/2025	Iwona Zarych	None	None	Jignesh Parikh
								09/11/2025

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>
138	COD calibration std. 10 ppm	WP114655	09/08/2025	09/15/2025	Iwona Zarych	None	WETCHEM_F IPETTE_3 (WC)	Jignesh Parikh 09/11/2025
FROM 9.90000ml of W3112 + 0.10000ml of WP114652 = 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>
137	COD calibration std. 50 ppm	WP114656	09/08/2025	09/15/2025	Iwona Zarych	None	WETCHEM_F IPETTE_3 (WC)	Jignesh Parikh 09/11/2025
FROM 9.50000ml of W3112 + 0.50000ml of WP114652 = 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>
4161	COD calibration std. 75 ppm	WP114657	09/08/2025	09/15/2025	Iwona Zarych	None	WETCHEM_PIPETTE_3 (WC)	Jignesh Parikh 09/11/2025
<u>FROM</u> 9.25000ml of W3112 + 0.75000ml of WP114652 = 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>
136	COD calibration std. 100 ppm	WP114658	09/08/2025	09/15/2025	Iwona Zarych	None	WETCHEM_PIPETTE_3 (WC)	Jignesh Parikh 09/11/2025
<u>FROM</u> 9.00000ml of W3112 + 1.00000ml of WP114652 = 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>
135	COD calibration std. 150 ppm	WP114659	09/08/2025	09/15/2025	Iwona Zarych	None	WETCHEM_F IPETTE_3 (WC)	Jignesh Parikh 09/11/2025

FROM 8.50000ml of W3112 + 1.50000ml of WP114652 = 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>
2459	COD ICV-LCS std, 50ppm	WP114661	09/08/2025	09/15/2025	Iwona Zarych	None	WETCHEM_F IPETTE_3 (WC)	Jignesh Parikh 09/11/2025

FROM 9.50000ml of W3112 + 0.50000ml of WP114653 = 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>
229	1:1 HCL	WP115016	10/02/2025	02/17/2026	Jignesh Parikh	None	None	Iwona Zarych
								10/02/2025

FROM 500.00000ml of M6151 + 500.00000ml 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>
2470	1664A SPIKING SOLN	WP115017	10/02/2025	04/02/2026	Jignesh Parikh	WETCHEM_S CALE_7 (WC SC-6)	None	Iwona Zarych
								10/02/2025

FROM 1000.00000ml of E3972 + 4.00000gram of W2817 + 4.00000gram of W2871 = 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>
3374	1664A QCS spiking solution-SS	WP115018	10/02/2025	04/02/2026	Jignesh Parikh	WETCHEM_SCALE_7 (WCS-6)	None	Iwona Zarych 10/02/2025
<u>FROM</u>	1000.00000ml of E3972 + 4.00000gram of W3009 + 4.00000gram of W3082 = 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>
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
<u>FROM</u> 3.81900gram of W3196 + 996.18100ml of W3112 = Final Quantity: 1000.000 ml								



<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
1895	Ammonia Stock Std, 1000PPM-SS	WP115086	10/08/2025	04/08/2026	Rubina Mughal	WETCHEM_S CALE_8 (WC SC-7)	None	Iwona Zarych 10/08/2025
<u>FROM</u>	3.81900gram of W3195 + 996.18100ml of W3112 = Final Quantity: 1000.000 ml							

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
539	CN BUFFER	WP115157	10/10/2025	12/03/2025	Rubina Mughal	WETCHEM_SCALE_8 (WC SC-7)	None	Iwona Zarych 10/14/2025
<u>FROM</u>	138.00000gram of W2668 + 862.00000ml 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>
740	sodium nitroferricyanide 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>
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



<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_SCALE_8 (WC-7)	None	Jignesh Parikh 10/27/2025
<u>FROM</u> 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_PIPETTE_3 (WC)	Jignesh Parikh 10/27/2025
<u>FROM</u> 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>
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>
1841	Sulfuric Acid, 1N	WP115342	10/27/2025	04/27/2026	Rubina Mughal	None	WETCHEM_FIPETTE_3	Jignesh Parikh
							(WC)	10/27/2025

FROM 2.80000ml of M6186 + 97.20000ml of W3112 = Final Quantity: 100.000 ml



<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
4035	IC ELUENT CONCENTRATE FOR IC-1	WP115344	10/23/2025	04/23/2026	Iwona Zarych	WETCHEM_SCALE_5 (WCS-5)	None	Jignesh Parikh
<u>FROM</u> 2.10000gram of W2647 + 84.75000gram of W3163 + 913.15000ml of W3112 = Final Quantity: 1000.000 ml								

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
114	hexavalent chromium color reagent	WP115393	10/30/2025	11/07/2025	Rubina Mughal	WETCHEM_SCALE_5 (WC-SC-5)	None	Iwona Zarych 10/31/2025
<u>FROM</u>	0.25000gram of W2979 + 50.00000ml of E3979 = 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>
1649	Cyanide LOD LOQ Spike Std, 100ppb	WP115433	11/04/2025	11/05/2025	Rubina Mughal	None	WETCHEM_PIPETTE_3 (WC)	Iwona Zarych 11/05/2025
<u>FROM</u> 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>
2456	COD Stock std, 1000ppm	WP115434	11/04/2025	11/11/2025	Eman Mughal	WETCHEM_SCALE_5 (WC-5)	None	Iwona Zarych 11/05/2025
<u>FROM</u>	0.08500gram of W3169 + 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>
2457	COD Stock std-SS, 1000ppm	WP115435	11/04/2025	11/11/2025	Eman Mughal	WETCHEM_SCALE_5 (WCS-5)	None	Iwona Zarych 11/05/2025
<u>FROM</u>	0.08500gram of W3219 + 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>
3580	COD LOD std, 5ppm	WP115436	11/04/2025	11/11/2025	Eman Mughal	None	WETCHEM_PIPETTE_3 (WC)	Iwona Zarych 11/05/2025
<u>FROM</u> 49.75000ml of W3112 + 0.25000ml of WP115434 = 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>
2458	COD CCV std, 50ppm	WP115438	11/04/2025	11/11/2025	Eman Mughal	None	WETCHEM_PIPETTE_3 (WC)	Iwona Zarych 11/05/2025
<u>FROM</u> 9.50000ml of W3112 + 0.50000ml of WP115434 = 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>
2459	COD ICV-LCS std, 50ppm	WP115439	11/04/2025	11/11/2025	Eman Mughal	None	WETCHEM_PIPETTE_3 (WC)	Iwona Zarych 11/05/2025
<u>FROM</u> 9.50000ml of W3112 + 0.50000ml of WP115435 = 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>
4162	RL CHECK	WP115440	11/04/2025	11/11/2025	Eman Mughal	None	WETCHEM_PIPETTE_3	Iwona Zarych
<u>FROM</u>		(WC)						
9.90000ml of W3112 + 0.10000ml of WP115434 = 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>
2487	Anions 300/9056 calibration standard 1	WP115441	11/03/2025	11/04/2025	Iwona Zarych	None	WETCHEM_PIPETTE_3 (WC)	Jignesh Parikh 11/07/2025
<u>FROM</u> 10.00000ml of W3112 = Final Quantity: 10.000 ml								



<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
24	Anions 300/9056 calibration standard 2	WP115442	11/03/2025	11/04/2025	Iwona Zarych	None	WETCHEM_PIPETTE_3 (WC)	Jignesh Parikh 11/07/2025
<u>FROM</u> 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_PIPETTE_3 (WC)	Jignesh Parikh 11/07/2025
<u>FROM</u> 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_F IPETTE_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_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>
3679	Anions 300/9056 calibration standard 6	WP115446	11/03/2025	11/04/2025	Iwona Zarych	None	WETCHEM_PIPETTE_3 (WC)	Jignesh Parikh 11/07/2025
<u>FROM</u> 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_PIPETTE_3 (WC)	Jignesh Parikh 11/07/2025
<u>FROM</u> 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>
3680	Anions 300/9056 calibration standard 5-CCV	WP115451	11/04/2025	11/05/2025	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

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	WP115452	11/04/2025	11/05/2025	Iwona Zarych	None	WETCHEM_F IPETTE_3 (WC)	Jignesh Parikh 11/07/2025
FROM 45.00000ml of W3112 + 5.00000ml of W3197 = Final Quantity: 50.000 ml								

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
1103	HEX CHROME INTERMEDIATE STD SOURCE 1 (5PPM)	WP115456	11/04/2025	11/05/2025	Rubina Mughal	None	WETCHEM_F IPETTE_3 (WC)	Iwona Zarych 11/05/2025
FROM 9.00000ml of W3112 + 1.00000ml of WP113880 = 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>
110	calibration std. hexchrome 0 ppm	WP115457	11/04/2025	11/05/2025	Rubina Mughal	None	None	Iwona Zarych
								11/05/2025

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>
109	calibration std. hexchrome 0.01 ppm	WP115458	11/04/2025	11/05/2025	Rubina Mughal	None	WETCHEM_FIPETTE_3	Iwona Zarych
							(WC)	11/05/2025

FROM 99.80000ml of W3112 + 0.20000ml of WP115456 = 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>
3800	Calibration Std Hexachrome 0.025 ppm	WP115459	11/04/2025	11/05/2025	Rubina Mughal	None	WETCHEM_PIPETTE_3 (WC)	Iwona Zarych 11/05/2025
<u>FROM</u> 99.50000ml of W3112 + 0.50000ml of WP115456 = 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>
108	Calibration Std. hexchrome 0.05 ppm	WP115460	11/04/2025	11/05/2025	Rubina Mughal	None	WETCHEM_PIPETTE_3 (WC)	Iwona Zarych 11/05/2025
<u>FROM</u> 99.00000ml of W3112 + 1.00000ml of WP115456 = 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>
107	Calibration Std. hexchrome 0.1 ppm	WP115461	11/04/2025	11/05/2025	Rubina Mughal	None	WETCHEM_F IPETTE_3 (WC)	Iwona Zarych 11/05/2025
FROM 99.80000ml of W3112 + 0.20000ml of WP113880 = 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>
3808	Calibration and CCV std HexChrome 0.5PPM	WP115462	11/04/2025	11/05/2025	Rubina Mughal	None	WETCHEM_F IPETTE_3 (WC)	Iwona Zarych 11/05/2025
FROM 99.00000ml of W3112 + 1.00000ml of WP113880 = 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>
3809	Calibration std HexChrome 1.0PPM	WP115463	11/04/2025	11/05/2025	Rubina Mughal	None	WETCHEM_PIPETTE_3	Iwona Zarych
(WC)								
<u>FROM</u>	98.00000ml of W3112 + 2.00000ml of WP113880 = 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>
3804	Hexavalent Chromium ICV-LCS Std	WP115464	11/04/2025	11/05/2025	Rubina Mughal	None	WETCHEM_PIPETTE_3 (WC)	Iwona Zarych 11/05/2025
<u>FROM</u> 99.00000ml of W3112 + 1.00000ml of WP113881 = 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>
1986	HEX LOD STD, 0.005PPM	WP115465	11/04/2025	11/05/2025	Rubina Mughal	None	WETCHEM_PIPETTE_3 (WC)	Iwona Zarych 11/05/2025
<u>FROM</u> 99.90000ml of W3112 + 0.10000ml of WP115456 = 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>
3731	Hex LOQ Std, 0.01PPM	WP115466	11/04/2025	11/05/2025	Rubina Mughal	None	WETCHEM_PIPETTE_3 (WC)	Iwona Zarych 11/05/2025
<u>FROM</u> 99.80000ml of W3112 + 0.20000ml of WP115456 = 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>
127	BOD Dilution fluid	WP115467	11/05/2025	11/06/2025	Rubina Mughal	None	None	Iwona Zarych
								11/05/2025

FROM 18.00000L of W3112 + 3.00000PILLOW of W3247 = Final Quantity: 18.000 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>
129	Glutamic acid-glucose mix for BOD	WP115468	11/05/2025	11/06/2025	Rubina Mughal	WETCHEM_SCALE_7 (WC SC-6)	None	Iwona Zarych
								11/05/2025

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

Wet Chemistry STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
128	polyseed seed control	WP115469	11/05/2025	11/06/2025	Rubina Mughal	None	None	Iwona Zarych
								11/05/2025

FROM 1.00000PILLOW of W3252 + 300.00000ml of WP115467 = Final Quantity: 300.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3680	Anions 300/9056 calibration standard 5-CCV	WP115470	11/05/2025	11/06/2025	Iwona Zarych	None	WETCHEM_FIPETTE_3	Jignesh Parikh
							(WC)	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>
3233	Anions 300/9056 ICV-LCS std	WP115471	11/05/2025	11/06/2025	Iwona Zarych	None	WETCHEM_F IPETTE_3 (WC)	Jignesh Parikh 11/07/2025
FROM 45.00000ml of W3112 + 5.00000ml of W3197 = Final Quantity: 50.000 ml								

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
2454	Anions LOQ std	WP115472	11/05/2025	11/06/2025	Iwona Zarych	None	WETCHEM_F IPETTE_3 (WC)	Jignesh Parikh 11/07/2025
FROM 1.00000ml of W3180 + 49.00000ml of W3112 = Final Quantity: 50.000 ml								



<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3912	Anions 300/9056 LOD Std	WP115473	11/05/2025	11/06/2025	Iwona Zarych	None	WETCHEM_FIPETTE_3	Jignesh Parikh
(WC)								
<u>FROM</u>	0.50000ml of W3180 + 49.50000ml of W3112 = Final Quantity: 50.000 ml							

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3983	Anions 300/9056 LOD std 0.25ml spike	WP115474	11/05/2025	11/06/2025	Iwona Zarych	None	WETCHEM_FIPETTE_3	Jignesh Parikh
(WC)								
<u>FROM</u>	0.25000ml of W3180 + 49.75000ml of W3112 = Final Quantity: 50.000 ml							



<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
1103	HEX CHROME INTERMEDIATE STD SOURCE 1 (5PPM)	WP115479	11/05/2025	11/06/2025	Rubina Mughal	None	WETCHEM_PIPETTE_3 (WC)	Iwona Zarych 11/07/2025
<u>FROM</u>	9.00000ml of W3112 + 1.00000ml of WP113880 = 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>PipettelD</u>	<u>Supervised By</u>
110	calibration std. hexchrome 0 ppm	WP115482	11/05/2025	11/06/2025	Rubina Mughal	None	None	Iwona Zarych 11/07/2025
<u>FROM</u> 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>
3800	Calibration Std Hexachrome 0.025 ppm	WP115483	11/05/2025	11/06/2025	Rubina Mughal	None	WETCHEM_FIPETTE_3 (WC)	Iwona Zarych 11/07/2025
FROM 99.50000ml of W3112 + 0.50000ml of WP115479 = 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>
108	Calibration Std. hexchrome 0.05 ppm	WP115484	11/05/2025	11/06/2025	Rubina Mughal	None	WETCHEM_FIPETTE_3 (WC)	Iwona Zarych 11/07/2025
FROM 99.00000ml of W3112 + 1.00000ml of WP115479 = 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>
107	Calibration Std. hexchrome 0.1 ppm	WP115485	11/05/2025	11/06/2025	Rubina Mughal	None	WETCHEM_PIPETTE_3	Iwona Zarych
(WC)								
<u>FROM</u>	99.80000ml of W3112 + 0.20000ml of WP113880 = 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>
3808	Calibration and CCV std HexChrome 0.5PPM	WP115486	11/05/2025	11/06/2025	Rubina Mughal	None	WETCHEM_PIPETTE_3	Iwona Zarych
(WC)								
<u>FROM</u>	99.00000ml of W3112 + 1.00000ml of WP113880 = 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>
3809	Calibration std HexChrome 1.0PPM	WP115487	11/05/2025	11/06/2025	Rubina Mughal	None	WETCHEM_PIPETTE_3	Iwona Zarych
<u>FROM</u> 98.00000ml of W3112 + 2.00000ml of WP113880 = 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>
3804	Hexavalent Chromium ICV-LCS Std	WP115488	11/05/2025	11/06/2025	Rubina Mughal	None	WETCHEM_PIPETTE_3	Iwona Zarych
<u>FROM</u> 99.00000ml of W3112 + 1.00000ml of WP113881 = 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>
109	calibration std. hexchrome 0.01 ppm	WP115489	11/05/2025	11/06/2025	Rubina Mughal	None	WETCHEM_PIPETTE_3 (WC)	Iwona Zarych 11/07/2025
<u>FROM</u> 99.80000ml of W3112 + 0.20000ml of WP115479 = 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>
295	TKN Calibration Std (10 ppm)	WP115506	11/06/2025	11/13/2025	Rubina Mughal	None	WETCHEM_PIPETTE_3 (WC)	Iwona Zarych 11/07/2025
<u>FROM</u> 49.50000ml of W3112 + 0.50000ml 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>
297	TKN CCV STD 5 ppm	WP115507	11/06/2025	11/13/2025	Rubina Mughal	None	WETCHEM_F IPETTE_3 (WC)	Iwona Zarych 11/07/2025
FROM 49.75000ml of W3112 + 0.25000ml 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>
296	TKN ICV STD 5 ppm	WP115508	11/06/2025	11/13/2025	Rubina Mughal	None	WETCHEM_F IPETTE_3 (WC)	Iwona Zarych 11/07/2025
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	WP115509	11/06/2025	11/13/2025	Rubina Mughal	None	WETCHEM_PIPETTE_3 (WC)	Iwona Zarych 11/07/2025
<u>FROM</u> 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>
3456	Cyanide Intermediate Working Std, 5PPM	WP115525	11/07/2025	11/08/2025	Rubina Mughal	None	WETCHEM_PIPETTE_3 (WC)	Jignesh Parikh 11/07/2025
<u>FROM</u> 0.25000ml of W3214 + 49.75000ml 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>
4	Calibration standard 500 ppb	WP115526	11/07/2025	11/08/2025	Rubina Mughal	None	WETCHEM_PIPETTE_3	Jignesh Parikh
(WC)								
<u>FROM</u>	45.00000ml of WP113836 + 5.00000ml of WP115525 = 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	WP115527	11/07/2025	11/08/2025	Rubina Mughal	None	WETCHEM_PIPETTE_3 (WC)	Jignesh Parikh 11/07/2025
<u>FROM</u>	2.50000ml of WP115525 + 47.50000ml 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>
6	Calibration Standard 100 ppb	WP115528	11/07/2025	11/08/2025	Rubina Mughal	None	WETCHEM_PIPETTE_3	Jignesh Parikh
FROM 1.00000ml of WP115525 + 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	WP115529	11/07/2025	11/08/2025	Rubina Mughal	None	WETCHEM_PIPETTE_3 (WC)	Jignesh Parikh 11/07/2025
FROM 0.50000ml of WP115525 + 49.50000ml 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>
8	Calibration Standard 10 ppb	WP115530	11/07/2025	11/08/2025	Rubina Mughal	None	WETCHEM_PIPETTE_3 (WC)	Jignesh Parikh 11/07/2025
<u>FROM</u>	1.00000ml of WP115526 + 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	WP115531	11/07/2025	11/08/2025	Rubina Mughal	None	WETCHEM_PIPETTE_3 (WC)	Jignesh Parikh 11/07/2025
<u>FROM</u> 0.50000ml of WP115526 + 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	WP115532	11/07/2025	11/08/2025	Rubina Mughal	None	WETCHEM_F IPETTE_3 (WC)	Jignesh Parikh 11/07/2025
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>
1649	Cyanide LOD LOQ Spike Std, 100ppb	WP115533	11/07/2025	11/08/2025	Rubina Mughal	None	WETCHEM_F IPETTE_3 (WC)	Jignesh Parikh 11/07/2025
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>
1582	Chloramine T solution, 0.014M	WP115534	11/07/2025	11/08/2025	Rubina Mughal	WETCHEM_SCALE_5 (WCS-5)	Glass Pipette-A	Jignesh Parikh
<u>FROM</u>	0.08000gram of W3139 + 20.00000ml of W3112 = Final Quantity: 20.000 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	10/15/2025 / RITESHKUMAR	09/29/2025 / Riteshkumar	E3979

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9673-33 / Sulfuric Acid, Instra-Analyzed (cs/6c2.5L)	23D2462010	03/20/2028	08/16/2024 / mohan	08/16/2024 / mohan	M6041

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	140440 / TEST PAPERS,PH,0-2.5,.2SENSI, 100PK	80A0441	02/29/2028	09/03/2024 / jignesh	08/19/2024 / Jaswal	M6069

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9530-33 / Hydrochloric Acid, Instra-Analyzed (cs/6x2.5L)	22G2862015	02/17/2026	02/18/2025 / Sagar	01/15/2025 / Sagar	M6151

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 #
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.	AA13450-36 / Potassium Dichromate, 500g(NEW)	T15F019	01/24/2030	01/24/2020 / apatel	01/24/2020 / apatel	W2651

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

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	AC156212500 / GLUTAMIC ACID BIOCHEM REG, 250G	A0405990	01/24/2030	01/24/2020 / apatel	01/24/2020 / apatel	W2653

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	D16-500 / DEXTROSE ANHYDROUS ACS REAGENT, 500G(New)	186122A	01/24/2030	01/24/2020 / apatel	01/24/2020 / apatel	W2654

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	P1060-10 / PHENOL, ACS, 500G	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.	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

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 #
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

CHEMICAL RECEIPT LOG BOOK

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

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
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.	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 #
PCI Scientific Supply, Inc.	4620-32 / MANGANOUS SULFATE SOLUTION-364	2403J02	03/31/2026	04/22/2024 / lwona	04/22/2024 / lwona	W3103

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	AL04100-4 / Alkaline Iodide Azide, 1 L	1405D67	04/30/2026	05/23/2024 / lwona	05/23/2024 / lwona	W3109

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	DIW / DI Water	Daily Lab-Certified	07/03/2029	07/03/2024 / lwona	07/03/2024 / lwona	W3112

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	PC19510-7 / Sodium Hydroxide Pellets 12 Kg	23B1556310	12/31/2025	07/08/2024 / lwona	07/08/2024 / lwona	W3113

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.	JTE494-6 / CHLORAMINE-T BAKER 250GM	10239484	09/09/2029	09/09/2024 / lwona	09/09/2024 / lwona	W3139

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	J3946-1 / Sodium Thiosulfate Pentahydrate, 500 gms	MKCW3077	07/31/2029	10/07/2024 / lwona	10/07/2024 / lwona	W3148

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	AL70850-8 / Starch Solution, 4L	4408P62	08/31/2026	10/16/2024 / lwona	10/16/2024 / lwona	W3149

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	01237-10KG / Magnesium 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.	P243-500 / Potassium Hydrogen Phthalate, 500 gms	24H0956262	04/28/2026	01/03/2025 / lwona	01/03/2025 / lwona	W3169

CHEMICAL RECEIPT LOG BOOK

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

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 #
PCI Scientific Supply, Inc.	470112-662 / TEST STRIPES, NITRATE/NITRITE, PK50	436101	04/30/2027	08/05/2025 / lwona	02/26/2025 / lwona	W3182

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

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

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	0330-500G / Cupric Sulfate Pentahydrate	24H0956271	05/31/2027	04/11/2025 / 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.	EM-BX0035-3 / Barbituric Acid, 100 gms	WXBFB3271V	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.	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

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	P243-500 / Potassium Hydrogen Phthalate, 500 gms	2025040493	06/30/2030	06/26/2025 / Iwona	06/26/2025 / Iwona	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 / Iwona	07/02/2025 / Iwona	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 / Iwona	07/07/2025 / Iwona	W3224

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Environmental Express LTD	B1010 / COD Digestion Vials Low Level 0-150Mg/L	5GE0517	05/31/2030	10/03/2025 / Iwona	07/11/2025 / Iwona	W3230

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

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 / Iwona	10/02/2025 / Iwona	W3241

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
HACH	1486266 / BOD Nutrient Buffer Pillows, 6 mL concentrate to make 6 L, 50/pk	A5189	08/30/2030	10/06/2025 / lwona	10/06/2025 / lwona	W3247

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	AL69870-8 / SODIUM THIOSULFATE,0.025N,4LIT RE	250904J	02/28/2027	10/03/2025 / lwona	10/03/2025 / lwona	W3248

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	136742-80 / POLYSEED	072505	05/31/2027	10/31/2025 / lwona	10/31/2025 / lwona	W3252

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

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

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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 ($\text{CH}_3(\text{CH}_2)_{14}\text{CH}_3$) (by GC)	$\geq 99.0 \%$	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

W2666 Recived on 02/10/2020 by AP

Product No.: 87683

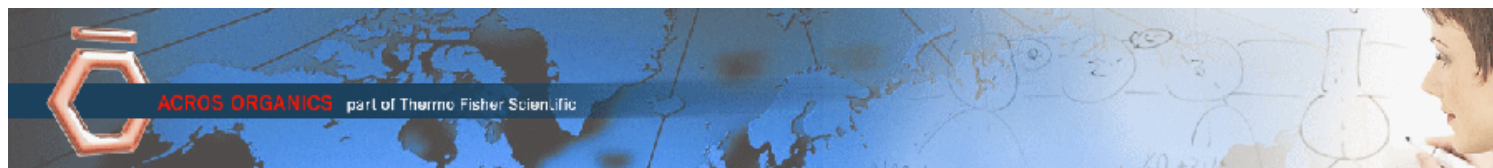
Product: Sodium pentacyanonitrosylferrate(III) dihydrate, ACS,
99.0-102.0%

Lot No.: W12F013

Test	Limits	Results
Assay	99.0 - 102.0 %	99.67 %
Insoluble	0.01 % max	0.0079 %
Chloride	0.02 % max	Not detected
Sulfate	To pass test	Passes test
Aqueous solubility	To pass test	Passes test
Limit on Ferricyanide	To pass test	Passes test
Limit on Ferrocyanide	To pass test	Passes test

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ACROS
ORGANICS

Version 0
Molecular weight 147.13
Molecular formula C₅ H₉ N O₄
CAS No 56-86-0
Linear formula HO₂CCH₂CH₂CH(NH₂)CO₂H
Flash point (°C)

Certificate of Analysis

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Catalog Number	15621	Quality Test / Release Date	13 March 2019
Lot Number	A0405990	Suggested Retest Date	March 2022
Description	L(+)-Glutamic acid, 99%		
Country of Origin	CHINA		
Declaration of Origin	plant		

Origin Comment	The product is made by fermentation of sugar molasses
-----------------------	---

Result Name	Specifications	Test Value
Appearance (Color)	White	White
Appearance (Form)	Powder	Powder
Infrared spectrum	Conforms	Conforms
Titration with NaOH	98.5 to 100.5 % (On dried substance)	99.32 % (On dried substance)
Loss on drying	=<0.5 % (105°C, 3 hrs)	0.002 % (105°C, 3 hrs)
Heavy metals (as Pb)	=<10 ppm	=<10 ppm
Sulfated ash	=<0.1 %	0.08 %
Other amino acids	not detectable	not detectable
Specific optical rotation	+30.5° to +32.5° (20°C, 589 nm) (on dried substance)	+32° (20°C, 589 nm) (on dried substance)
Specific optical rotation	(c=10, 2N HCl)	(c=10, 2N HCl)
Chloride (Cl)	=<200 ppm	=<200 ppm
Iron (Fe)	=<30 ppm	=<10 ppm
Sulfate (SO ₄)	=<300 ppm	=<200 ppm
Ammonium (NH ₄)	=<200 ppm	=<200 ppm
Arsenic oxide (As ₂ O ₃)	=<1 ppm	=<1 ppm



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

L. Van den Broek, QA Manager

Issued: 24 January 2020

Acros Organics

ENA23, zone 1, nr 1350, Janssen Pharmaceuticaaan 3a, B-2440 Geel, Belgium

Tel +32 14/57.52.11 - Fax +32 14/59.34.34 Internet: <http://www.acros.com>

1 Reagent Lane, Fair Lawn, NJ 07410, USA Fax 201-796-1329

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.

3050 Spruce Street, Saint Louis, MO 63103, USA

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

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

Certificate of Analysis

Product Name:

Potassium sulfate - ReagentPlus®, ≥99.0%

Product Number:

P0772

Batch Number:

SLCM9788

Brand:

SIGALD

CAS Number:

7778-80-5

MDL Number:

MFCD00011388

Formula:

K₂O₄S

Formula Weight:

174.26 g/mol

Quality Release Date:

03 MAR 2022

K₂SO₄

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

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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:

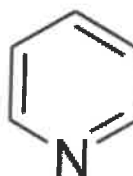
C₅H₅N

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

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Certificate of Analysis

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

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

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

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

Jerisa Bailey-Wyche

Quality Assurance Specialist - Certificate of Analysis Fair Lawn

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

*Based on suggested storage condition.



Certificate of Analysis

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

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

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

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

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.



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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

Avantor Performance Materials LLC

Acetone
BAKER RESI-ANALYZED® Reagent
For Organic Residue Analysis

 **avantors**™



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

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

E3979



Jamie Croak
Director Quality Operations, Bioscience Production

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

Avantor Performance Materials LLC



R: 02/20/20
53

Instructions for QATS Reference Material: *Inorganic ICV Solutions*

For ICP-MS use: dilute the ICV1 concentrate 50-fold with 1% (v/v) nitric acid; pipet 2 mL of the concentrate into a 100 mL volumetric flask and dilute to volume with 1% (v/v) nitric acid.

ICV5-0415

For the cold vapor analysis of mercury by AA: dilute the ICV5 concentrate 100-fold with 2% (v/v) nitric acid; pipet 1 mL of the concentrate into a 100 mL volumetric flask and dilute to volume with 2% (v/v) nitric acid. The ICV5 concentrate is prepared in 0.05% (w/v) $K_2Cr_2O_7$ and 5% (v/v) nitric acid.

ICV6-0400

For the analysis of cyanide: dilute the ICV6 concentrate 100-fold with Type II water; pipet 1 mL of the concentrate into a 100 mL volumetric flask and dilute to volume with Type II water. Distill this solution along with the samples before analysis. The cyanide concentrate is prepared from $K_3Fe(CN)_6$, Type II water, and 0.1 % sodium hydroxide, and will decompose rapidly if exposed to light.

NOTE: USE TYPE II WATER AND HIGH-PURITY ACIDS FOR ALL DILUTIONS.

(D) CERTIFIED CONCENTRATIONS OF QATS ICV1, ICV5, AND ICV6 SOLUTIONS

ICV1-1014		
Element	Concentration (µg/L) (after 10-fold dilution)	Concentration (µg/L) (after 50-fold dilution)
Al	2520	504
Sb	1010	202
As	997	199
Ba	518	104
Be	514	103
Cd	514	103
Ca	10000	2000
Cr	517	103
Co	521	104
Cu	505	101
Fe	10100	2020
Pb	1030	206
Mg	5990	1198
Mn	524	105
Ni	525	105
K	9940	1988
Se	1030	206
Ag	252	50
Na	10100	2020
Tl	1040	208
V	504	101
Zn	1010	202

ICV5-0415		ICV6-0400	
Element	Concentration (µg/L) (after 100-fold dilution)	Analyte	Concentration (µg/L) (after 100-fold dilution)
Hg	4.0	CN ⁻	99

W3011
W3012
W3013
W3014
W3015

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

 **avantor™**

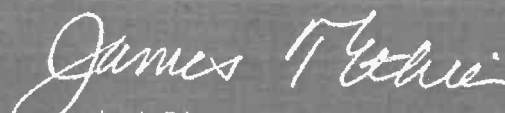


Material No.: 9673-33
Batch No.: 23D2462010

Test	Specification	Result
Trace Impurities – Sodium (Na)	≤ 500.0 ppb	5.4 ppb
Trace Impurities – Strontium (Sr)	≤ 5.0 ppb	< 0.2 ppb
Trace Impurities – Tin (Sn)	≤ 5.0 ppb	< 0.8 ppb
Trace Impurities – Zinc (Zn)	≤ 5.0 ppb	0.4 ppb

For Laboratory, Research, or Manufacturing Use

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


Jamie Ethier
Vice President Global Quality



Certificate of Analysis

Product information

Product	pH-Fix 0.3-2.3
REF	92180
LOT	80A0441
Expiration date:	29.02.2028
Date of examination:	23.01.2024
Gradation:	pH 0.3-0.7-1.0-1.3-1.6-1.9-2.3

Confirmation

Hereby we confirm, that the above mentioned product has successfully passed our quality control system in accordance with ISO 9001 and meets the specific quality criteria.

This document has been produced electronically and is valid without a signature.



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

 **avantorsm**



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



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

A handwritten signature in cursive script that reads 'Jamie Ethier'.
Jamie Ethier
Vice President Global Quality

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

avantor™



M6186

Recieve 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

A handwritten signature in cursive script that reads 'Jamie Ethier'.
Jamie Ethier
Vice President Global Quality

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-Diphenylcarbazide - ACS reagent

Product Number:

259225

Batch Number:

MKCR6636

Brand:

SIAL

CAS Number:

140-22-7

MDL Number:

MFCD00003013

Formula:

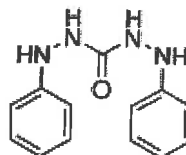
C₁₃H₁₄N₄O

Formula Weight:

242.28 g/mol

Quality Release Date:

02 JUN 2022



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 %

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**RICCA CHEMICAL COMPANY®**

1490 Lammers Pike

Batesville, IN 47006

<http://www.riccachemical.com>

1-888-GO-RICCA

customerservice@riccachemical.com

Certificate of Analysis

W3093
094121
04/03/2024
16

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

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

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

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

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

Test	Specification	Result
Appearance	Yellow liquid	Passed

*Not a certified value.

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

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

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

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

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



Paul Brandon (01/08/2024)

Production Manager

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.



Certificate of Analysis

Manganous Sulfate Solution, 364 g/L**Lot Number:** 2403J02**Product Number:** 4620**Manufacture Date:** MAR 15, 2024**Expiration Date:** MAR 2026

Name	CAS#	Grade
Water	7732-18-5	ACS/ASTM/USP/EP
Manganous Sulfate Monohydrate	10034-96-5	Reagent
Sulfuric Acid	7664-93-9	ACS

Test	Specification	Result
Appearance	Pink liquid	Passed
Assay (by Refractive Index)	360-368 g/L	367 g/L

Specification	Reference
Manganous Sulfate Solution	ASTM (D 888 A)
Manganous Sulfate Solution	ASTM (D 888 A)
Manganous Sulfate Solution	APHA (4500-O E)
Manganous Sulfate Solution	APHA (4500-O F)
Manganous Sulfate Solution	APHA (4500-O D)
Manganous Sulfate Solution	APHA (4500-O E)
Manganous Sulfate Solution	APHA (4500-O F)
Manganous Sulfate Solution	APHA (4500-O D)
Manganous Sulfate Solution	APHA (4500-O C)
Manganous Sulfate Solution	APHA (4500-O C)
Manganous Sulfate Solution	EPA (360.2)
Manganous Sulfate Solution	EPA (360.2)

Volumetric glassware complies with Class A tolerance requirements of ASTM E 288 and NIST Circular 434; it is calibrated before first use and recalibrated regularly in accordance with ASTM E 542 and NIST Procedure NBSIR 74-461. Balances are calibrated regularly with weights certified traceable to the NIST national mass standard. Thermometers and temperature probes are calibrated before first use and recalibrated regularly with a thermometer traceable to NIST standards. All products are prepared according to master documents that assure manufacture according to validated methods. Batch records document raw material traceability and production and testing history for each lot manufactured.

Part Number	Size / Package Type	Shelf Life (Unopened Container)
4620-32	1 L natural poly	24 months

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



Jose Pena (03/15/2024)

Operations Manager

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Contents of Certificates and Labels."

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Certificate of Analysis

Alkaline-Iodide-Azide, Pomeroy Formulation for Dissolved Oxygen (DO) Analysis

Lot Number: 1405D67

Product Number: 535

Manufacture Date: APR 05, 2024

Expiration Date: APR 2026

This solution is intended for use with samples with high Dissolved Oxygen content (above 15 mg/L) and for samples with high concentrations of organic material.

Name	CAS#	Grade
Water	7732-18-5	ACS/ASTM/USP/EP
Sodium Iodide	7681-82-5	ACS
Sodium Hydroxide	1310-73-2	ACS
Sodium Azide	26628-22-8	Reagent

Test	Specification	Result
Appearance	Colorless liquid	Passed
Free Iodine	To Pass Test	Passed

Specification	Reference
Alkaline Iodide-Sodium Azide Solution II	ASTM (D 888 A)
Volumetric glassware complies with Class A tolerance requirements of ASTM E 288 and NIST Circular 434; it is calibrated before first use and recalibrated regularly in accordance with ASTM E 542 and NIST Procedure NBSIR 74-461. Balances are calibrated regularly with weights certified traceable to the NIST national mass standard. Thermometers and temperature probes are calibrated before first use and recalibrated regularly with a thermometer traceable to NIST standards. All products are prepared according to master documents that assure manufacture according to validated methods. Batch records document raw material traceability and production and testing history for each lot manufactured.	

Part Number	Size / Package Type	Shelf Life (Unopened Container)
535-32	1 L natural poly	24 months

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



Heidi J Green (04/05/2024)
Operations Manager

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Certificate of Analysis



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
Molecular Weight: 40
CAS #: 1310-73-2
Appearance:

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

Storage: Room Temperature

Pellets

Spec Set: 0583ACS

Internal ID #: 710

Signature

We certify that this batch conforms to the specifications listed.

This document has been electronically produced and is valid without a signature.

Leona Edwardson, Quality Control Sr. Manager - Solon
VWR Chemicals, LLC.
28600 Fountain Parkway, Solon OH 44139 USA

Additional Information

Analysis may have been rounded to significant digits in specification limits.

Product meets analytical specifications of the grades listed.

Item Number	ED150	Lot Number	2ND0156
Item	Edetate Disodium, Dihydrate, USP	CAS Number	6381-92-6
Molecular Formula	$C_{10}H_{14}N_2Na_2O_8 \cdot 2H_2O$	Molecular Weight	372.24

TEST	SPECIFICATION		RESULT
	MIN	MAX	
ASSAY (DRIED BASIS)	99.0	101.0 %	99.5 %
pH OF A 5% SOLUTION @ 25°C	4.0	6.0	4.6
LOSS ON DRYING	8.7	11.4 %	8.90 %
CALCIUM (Ca)	NO PRECIPITATE IS FORMED		NO PRECIPITATE IS FORMED
ELEMENTAL IMPURITIES:			.
NICKEL (Ni)	AS REPORTED		<0.3 ppm
CHROMIUM (Cr)	AS REPORTED		<0.3 ppm
NITRILOTRIACETIC ACID[n[(HOCOCH ₂) ₃ N]		0.1 %	<0.10 %
IDENTIFICATION A	MATCHES REFERENCE		MATCHES REFERENCE
IDENTIFICATION B	RED COLOR IS DISCHARGED, LEAVING A YELLOWISH SOLUTION		RED COLOR IS DISCHARGED, LEAVING A YELLOWISH SOLUTION
IDENTIFICATION C	MEETS THE REQUIREMENTS FOR SODIUM		MEETS THE REQUIREMENTS FOR SODIUM
CERTIFIED HALAL			CERTIFIED HALAL
EXPIRATION DATE			10-JUL-2026
DATE OF MANUFACTURE			11-JUL-2023
APPEARANCE			WHITE CRYSTALLINE POWDER
RESIDUAL SOLVENTS		AS REPORTED	NO RESIDUAL SOLVENTS PRESENT
MONOGRAPH EDITION			USP 2024

Certificate of Analysis Results Entered By:

CACEVEDO
Charmian Acevedo
22-MAY-24 08:12:30

Certificate of Analysis Results Approved By:

GHERRERA
Genaro Herrera
22-MAY-24 12:32:01

Spectrum Chemical Mfg Corp
755 Jersey Avenue
New Brunswick 08901 NJ



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

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

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

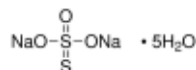
Products are processed under ISO 9001:2015 quality management systems and samples are tested for conformance to the noted specifications. Certain data may have been supplied by third parties. We disclaim the implied warranties of merchantability and fitness for a particular purpose, and the accuracy 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.





Certificate of Analysis

Starch Indicator, 0.5% (w/v), Mercury Free, for Iodometric Titrations

Lot Number: 4408P62

Product Number: 8000

Manufacture Date: AUG 28, 2024

Expiration Date: AUG 2026

This product is Mercury-free.

Name	CAS#	Grade
Water	7732-18-5	ACS/ASTM/USP/EP
Starch, soluble	9005-84-9	ACS
Salicylic Acid	69-72-7	ACS

Test	Specification	Result
Appearance	White translucent liquid	Passed
Suitability for Use	Colorless (Iodine absent) - Blue (Iodine present)	Passed

Specification	Reference
Starch Solution	APHA (4500-S2- F)
Starch Indicator Solution	APHA (4500-CI B)
Starch Indicator	APHA (4500-SO32- B)
Starch indicator solution	APHA (2350 B)
Starch indicator solution	APHA (2350 E)
Starch Solution	APHA (510 B)
Starch Solution	APHA (5530 C)
Starch Indicator	APHA (4500-CI C)
Starch Indicator	EPA (345.1)

Volumetric glassware complies with Class A tolerance requirements of ASTM E 288 and NIST Circular 434; it is calibrated before first use and recalibrated regularly in accordance with ASTM E 542 and NIST Procedure NBSIR 74-461. Balances are calibrated regularly with weights certified traceable to the NIST national mass standard. Thermometers and temperature probes are calibrated before first use and recalibrated regularly with a thermometer traceable to NIST standards. All products are prepared according to master documents that assure manufacture according to validated methods. Batch records document raw material traceability and production and testing history for each lot manufactured.

Part Number	Size / Package Type	Shelf Life (Unopened Container)
8000-1	4 L natural poly	24 months
8000-16	500 mL natural poly	24 months
8000-32	1 L natural poly	24 months

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

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

Paul Brandon (08/28/2024)
Production Manager

This test report shall not be reproduced, except in full, without the written approval of Ricca Chemical Company.

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

A handwritten signature in black ink, appearing to read 'Bala Kumar', with a stylized flourish at the end.

Bala Kumar
Quality Control Manager



Certificate of Analysis

Buffer, Reference Standard, pH 2.00 ± 0.01 at 25°C**Lot Number:** 2411E26**Product Number:** 1493**Manufacture Date:** NOV 11, 2024**Expiration Date:** OCT 2026

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

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

°C	10	15	20	25	30	35	40	45	50
pH	1.93	1.98	1.98	2.00	2.01	2.03	2.03	2.04	2.04

Name	CAS#	Grade
Water	7732-18-5	ACS/ASTM/USP/EP
Potassium Chloride	7447-40-7	ACS
Hydrochloric Acid	7647-01-0	ACS

Test	Specification	Result
Appearance	Colorless liquid	Passed

*Not a certified value.

Test	Certified Value	Uncertainty	NIST SRM#
pH at 25°C (Method: SQCP027, SQCP033)	1.994	0.02	185i, 186-I-g, 186-II-g

pH measurements were performed in our Pocomoke City, MD laboratory under ISO/IEC 17025 accreditation (ANAB Certificate L2387.01) and are certified traceable to National Institute of Standards and Technology (NIST) Standard Reference Material as indicated above via an unbroken chain of comparisons. The uncertainty is calculated from the uncertainty of the measurement variation from sample to sample, the uncertainty in the NIST Standard Reference Material, and the uncertainty of the measurement process. The uncertainty is multiplied by k=2, corresponding to 95% coverage in a normal distribution. Volumetric glassware complies with Class A tolerance requirements of ASTM E 288 and NIST Circular 434; it is calibrated before first use and recalibrated regularly in accordance with ASTM E 542 and NIST Procedure NBSIR 74-461. Balances are calibrated regularly with weights certified traceable to the NIST national mass standard. Thermometers and temperature probes are calibrated before first use and recalibrated regularly with a thermometer traceable to NIST standards. All products are prepared according to master documents that assure manufacture according to validated methods. Batch records document raw material traceability and production and testing history for each lot manufactured.

Part Number	Size / Package Type	Shelf Life (Unopened Container)
1493-1	4 L natural poly	24 months
1493-16	500 mL natural poly	24 months
1493-1CT	4 L Cubitainer®	24 months
1493-2.5	10 L Cubitainer®	24 months
1493-32	1 L natural poly	24 months

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



Jose Pena (11/11/2024)
Operations Manager

This product was tested in an ISO 17025 Accredited Laboratory

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W3163 Rec. on 12/10/24 by IZ

Certificate of Analysis



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

Batch 24E3156178
Reassay Date 09/30/2027
CAS Number 497-19-8
Molecular Formula Na_2CO_3
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	$\leq 0.03 \%$	0.003 %
Chloride	$\leq 0.001 \%$	0.0003 %
Heavy Metals (as Pb)	$\leq 0.0005 \%$	0.0001 %
Insolubles	$\leq 0.01 \%$	0.001 %
Iron	$\leq 0.0005 \%$	0.0001 %
Loss on Heating	$\leq 1.0 \%$	0.03 %
Magnesium	$\leq 0.005 \%$	0.001 %
Phosphate	$\leq 0.001 \%$	0.001 %
Potassium	$\leq 0.005 \%$	0.003 %
Purity	$\geq 99.5 \%$	100.0 %
Silica	$\leq 0.005 \%$	0.001 %
Sulfur Compounds	$\leq 0.003 \%$	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	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.

**RICCA CHEMICAL COMPANY®**

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Pocomoke City, MD 21851
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1-888-GO-RICCA
customerservice@riccachemical.com

Certificate of Analysis

W21758 58

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

Lot Number: 2411A93

Product Number: 1501

Manufacture Date: NOV 04, 2024

Expiration Date: OCT 2026

The certified value for this product is confirmed in independent testing by a second qualified chemist.
The NIST Traceable pH value is certified to ±0.01 at 25 °C only. All other pH values at their corresponding temperatures are accurate to ± 0.05.

°C	0	5	10	15	20	25	30	35	40	45	50
pH	4.00	4.00	4.00	4.00	4.00	4.00	4.01	4.02	4.03	4.04	4.06

Name	CAS#	Grade
Water	7732-18-5	ACS/ASTM/USP/EP
Potassium Acid Phthalate	877-24-7	Buffer
Preservative	Proprietary	Commercial
Red Dye	Proprietary	Purified

Test	Specification	Result
Appearance	Red liquid	Passed

*Not a certified value.

Test	Certified Value	Uncertainty	NIST SRM#
pH at 25°C (Method: SQCP027, SQCP033)	4.008	0.02	185i, 186-I-g, 186-II-g

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

pH measurements were performed in our Pocomoke City, MD laboratory under ISO/IEC 17025 accreditation (ANAB Certificate L2387.01) and are certified traceable to National Institute of Standards and Technology (NIST) Standard Reference Material as indicated above via an unbroken chain of comparisons. The uncertainty is calculated from the uncertainty of the measurement variation from sample to sample, the uncertainty in the NIST Standard Reference Material, and the uncertainty of the measurement process. The uncertainty is multiplied by k=2, corresponding to 95% coverage in a normal distribution. Volumetric glassware complies with Class A tolerance requirements of ASTM E 288 and NIST Circular 434; it is calibrated before first use and recalibrated regularly in accordance with ASTM E 542 and NIST Procedure NBSIR 74-461. Balances are calibrated regularly with weights certified traceable to the NIST national mass standard. Thermometers and temperature probes are calibrated before first use and recalibrated regularly with a thermometer traceable to NIST standards. All products are prepared according to master documents that assure manufacture according to validated methods. Batch records document raw material traceability and production and testing history for each lot manufactured.

Part Number	Size / Package Type	Shelf Life (Unopened Container)
1501-16	500 mL natural poly	24 months
1501-2.5	10 L Cubitainer®	24 months
1501-5	20 L Cubitainer®	24 months

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



Refine your results. Redefine your industry.

Certificate of Analysis

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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; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

April 02, 2024

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **April 02, 2029**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Prepared By:

Uyen Truong
Custom Processing Supervisor



Certificate Approved By:

Thomas Kozikowski
Stock VS Manager



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director





RICCA CHEMICAL COMPANY®

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Certificate of Analysis

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

Lot Number: 2410F80

Product Number: 1601

Manufacture Date: OCT 09, 2024

Expiration Date: MAR 2026

The certified value for this product is confirmed in independent testing by a second qualified chemist.
The NIST traceable pH value is certified to ±0.01 at 25 °C only. All other pH values at their corresponding temperatures are accurate to ± 0.05.

°C	0	5	10	15	20	25	30	35	40	50
pH	10.31	10.23	10.17	10.11	10.05	10.00	9.95	9.91	9.87	9.81

Name	CAS#	Grade
Water	7732-18-5	ACS/ASTM/USP/EP
Sodium Carbonate	497-19-8	ACS
Sodium Bicarbonate	144-55-8	ACS
Sodium Hydroxide	1310-73-2	Reagent
Preservative	Proprietary	
Blue Dye	Proprietary	

Test	Specification	Result
Appearance	Blue liquid	Passed

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

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

pH measurements were performed in our Pocomoke City, MD laboratory under ISO/IEC 17025 accreditation (ANAB Certificate L2387.01) and are certified traceable to National Institute of Standards and Technology (NIST) Standard Reference Material as indicated above via an unbroken chain of comparisons. The uncertainty is calculated from the uncertainty of the measurement variation from sample to sample, the uncertainty in the NIST Standard Reference Material, and the uncertainty of the measurement process. The uncertainty is multiplied by k=2, corresponding to 95% coverage in a normal distribution. Volumetric glassware complies with Class A tolerance requirements of ASTM E 288 and NIST Circular 434; it is calibrated before first use and recalibrated regularly in accordance with ASTM E 542 and NIST Procedure NBSIR 74-461. Balances are calibrated regularly with weights certified traceable to the NIST national mass standard. Thermometers and temperature probes are calibrated before first use and recalibrated regularly with a thermometer traceable to NIST standards. All products are prepared according to master documents that assure manufacture according to validated methods. Batch records document raw material traceability and production and testing history for each lot manufactured.

Part Number	Size / Package Type	Shelf Life (Unopened Container)
1601-1	4 L natural poly	18 months
1601-16	500 mL natural poly	18 months
1601-1CT	4 L Cubitainer®	18 months
1601-2.5	10 L Cubitainer®	18 months
1601-32	1 L natural poly	18 months
1601-5	20 L Cubitainer®	18 months

Version: 1.3

Lot Number: 2410F80

Product Number: 1601

Page 1 of 2

Certificate of Analysis



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

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

Internal ID #: 710

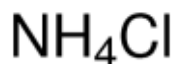
Signature	Additional Information
We certify that this batch conforms to the specifications listed above. This document has been electronically produced and is valid without a signature. Leona Edwardson, Quality Control Sr. Manager - Solon VWR Chemicals, LLC. 28600 Fountain Parkway, Solon OH 44139 USA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

W3196 Received on 03/19/2025 by IZ

Certificate of Analysis

Product Name:

Ammonium chloride - ACS reagent, ≥99.5%



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

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



Larry Coers, Director

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



Certificate of Analysis

Product Number: 213330
Batch Number: MKCV1009

Quality Control
Milwaukee, WI US

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



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



Material: 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

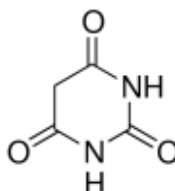
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Certificate of Analysis

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

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)



Ernest Mahan (05/08/2025)
Plant Manager

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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

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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

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Part of TCP Analytical Group

Jackson's Pointe Commerce Park- Building 1000
1010 Jackson's Pointe Court, Zelienople, PA 16063

Certificate of Analysis

Cyanide Standard 1000 ppm (1ml = 1mg CN)

Product Code: **LC13545**

Manufacture Date: 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

Michael Monteleone
Chemistry Supervisor - Quality Control
20250703 15:30:45ahoffman-0-0

ISO9001:2015 Registration #0306-01

W 3228

W 3229

W 3230

Rec. on 7/11/25 by 12



environmental
express®

2345A Charleston Regional
Charleston, South Carolina 29492
environmentalexpress.com
+1 843.881.6560

May 12, 2025

CERTIFICATE OF ANALYSIS

Environmental Express certifies that the following COD Reagent Vials have been rigorously checked against NIST Traceable standards and also compared for conformance to another major brand name product. Environmental Express COD Vial performance is evaluated using bench top spectrophotometers. Acceptance guidelines are strict and ensure dependable, quality results.

Environmental Express further certifies that the COD products listed below are recognized by the United States Environmental Protection Agency (USEPA) as equivalent to an approved Water Pollutant Testing Procedure for COD (Federal Register, Vol. 45, No. 78, Monday, April 20th, 1980, page 26811) and as such can be used for National Pollution Discharge Elimination System (NPDES) reporting.

<u>Cat. No.</u>	<u>Lot No.</u>	<u>Product Description</u>	<u>Expiration Date</u>
B1010	5GE0517	COD Reagent Vials, 0 - 150 ppm	May-30

n-Hexane 95%
ULTRA RESI-ANALYZED
For Organic Residue Analysis

 **avantorsTM**



W3240
JP
07/15/2025
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

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

Avantor Performance Materials LLC



An ISO 9001 Certified Company

P.O. Box 389
Loveland, CO 80539
(970) 669-3050

Certificate of Analysis

This is a Component of 1486266 / LOT A5189

PRODUCT: BOD Nutrient Buffer Pillows

PRODUCT NUMBER: 1486227

LOT NUMBER: A5189

MANUFACTURE DATE: 08/04/2025

DATE OF ANALYSIS: 08/18/2025

TEST	SPECIFICATIONS	RESULTS
Ammonia Concentration of a diluted pillow	0.57 to 0.79 ppm	0.570
Calcium Concentration of a diluted pillow	0.93 to 1.29 ppm	1.060
Iron Concentration of a diluted pillow	0.27 to 0.36 ppm	0.331
Magnesium Concentration of a diluted pillow	0.35 to 0.48 ppm	0.430
Phosphorus Concentration of a diluted pillow	7.6 to 10.3 ppm	8.39
pH in a 6 L of DI water	7.1 to 7.6 ph	7.42
Five Day Change in Dissolved Oxygen Concentration	-0.2 to 0.2 ppm	0.10
Sterility	To Pass	Passed

The expiration date is Aug 2030

Certified by: *Scott Als*

Analytical Service Chemist

Certificate of Analysis

Sodium Thiosulfate, 0.0250 Normal (N/40)

Lot Number: 250904J

Product Number: 7900

Manufacture Date: SEP 03, 2025

Expiration Date: FEB 2027

This product is specially formulated to increase its stability. A preservative is added to prevent bacterial contamination. However, all Sodium Thiosulfate solutions are subject to slow chemical deterioration and should be restandardized periodically.

Name	CAS#	Grade
Water	7732-18-5	ACS/ASTM/USP/EP
Organic Preservative	Proprietary	
Sodium Carbonate	497-19-8	ACS
Sodium Thiosulfate Pentahydrate	10102-17-7	ACS

Test	Specification	Result	NIST SRM#
Appearance	Colorless liquid	Passed	
Assay (vs. Potassium Iodate/Starch)	0.02499-0.02501 N at 20°C	0.02501 N at 20°C	136

Specification	Reference
Standard Sodium Thiosulfate Solution, 0.0250 N	APHA (4500-S2- F)
Standard Sodium Thiosulfate Titrant	APHA (4500-O D)
Standard Sodium Thiosulfate Titrant	APHA (4500-O E)
Standard Sodium Thiosulfate Titrant	APHA (4500-O F)
Standard Sodium Thiosulfate Titrant, 0.025 N	APHA (4500-CI B)
Standard Sodium Thiosulfate Titrant	APHA (4500-O C)
Standard Sodium Thiosulfate Titrant, 0.025 M	APHA (5530 C)
Standard Sodium Thiosulfate Solution (0.025 N)	EPA (SW-846) (9031)
Standard Sodium Thiosulfate solution (0.025 N)	EPA (SW-846) (9034)

Volumetric glassware complies with Class A tolerance requirements of ASTM E 288 and NIST Circular 434; it is calibrated before first use and recalibrated regularly in accordance with ASTM E 542 and NIST Procedure NBSIR 74-461. Balances are calibrated regularly with weights certified traceable to the NIST national mass standard. Thermometers and temperature probes are calibrated before first use and recalibrated regularly with a thermometer traceable to NIST standards. All products are prepared according to master documents that assure manufacture according to validated methods. Batch records document raw material traceability and production and testing history for each lot manufactured.

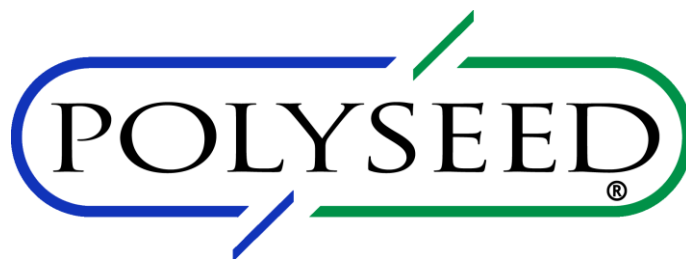
Part Number	Size / Package Type	Shelf Life (Unopened Container)
7900-1	4 L natural poly	18 months
7900-16	500 mL natural poly	18 months
7900-32	1 L natural poly	18 months

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



Jose Pena (09/03/2025)
Operations Manager

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CERTIFICATE OF ANALYSIS

PO BOX 130549 Spring, TX 77393
Phone: (281) 298-9410 Fax: (281) 298-9411

FINISHED PRODUCT, LOT NUMBER, MFG. /EXP DATE:

PolySeed® • Part No. P-110 • Lot 072505 • Mfg. Date: 05/2025 • Exp. Date: 05/2027

FORMULATION:

The formulation for this product contains a range of naturally occurring microorganisms, which are known to be non-pathogenic to man or animals.

VIABLE COUNT, FINAL TEST RESULT:

The product has been fully tested in accordance with Finished Product Specifications and contains a minimum viable count of 4.00×10^9 cfu/g.

GLUCOSE/GLUTAMIC-ACID RESULTS:

Tested results within acceptable range 198 +/- 30.5 mg/L (167.5 - 228.5 mg/L). GGA Lot# 43100020 – Average Test Result: 203

See www.polyseed.com for details.

SEED CONTROL FACTOR:

Tested results within acceptable range 0.6 – 1.0 see www.polyseed.com for details

SALMONELLA TEST RESULT:

The product has been shown to be Salmonella negative using procedures recommended in the Microbiology Laboratory Guidebook, published by the USDA Food Safety and Inspection Service.

The purpose of this document is to ensure that the Finished Product conforms to the above specifications.

Signature: _____

Quality Control Department

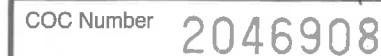
Date: 05/07/2025

POLYSEED.Ref.1.19

Revised Jan 25



SHIPPING DOCUMENTS



1.	MW-6	GW	X	11/3/25	10:45	15	7	2	1	1	1	1	1	1	1	ammunition safe
2.	MW-1	GW	X	11/3/25	11:50	15	7	2	1	1	1	1	1	1	1	↓
3.	MW-11	GW	X	11/3/25	12:00	15	7	2	1	1	1	1	1	1	1	
4.	MW-5	GW	X	11/4/25	16:20	15	7	2	1	1	1	1	1	1	1	
5.	MW-EB-1	GW	X	11/3/25	15:00	15	7	2	1	1	1	1	1	1	1	
6.	MW-EB-2	GW	X	11/4/25	10:05	15	7	2	1	1	1	1	1	1	1	
7.	MW-EB-3	GW	X	11/3/25	14:30	15	7	2	1	1	1	1	1	1	1	
8.	TB-1	GW	X	11/3/25	8:00	2		2								
9.	FB-1	GW	X	11/4/25	11:20	5	2	2	1	1			1	1	3	field bank
10.	EB-1	GW	X	11/4/25	11:20	5		2							3	equipment bank

☐ YES ☐ NO

From: Yazmeen Gomez
Sent: Wednesday, November 05, 2025 4:05 PM
To: Mohammad Ahmed
Subject: FW: Chain of Custody 11/4/25

Importance: High

q3534 - sample 11. I just added TCL+30, Hex Chrom, Oil and Grease and SVOC-SIM.

Best Regards,



Yazmeen Gomez
Sr. Project Manager
An Alliance Technical Group Company
Main: 908-789-8900
Direct: 908-728-3147
Address: 284 Sheffield St, Ste 1, Mountainside, NJ 07092
www.alliancetg.com   

From: Justin Zarzecki <Justin.Zarzecki@rve.com>
Sent: Wednesday, November 5, 2025 3:29 PM
To: Yazmeen Gomez <yazmeen.gomez@alliancetg.com>
Cc: Leslie Hartzell <leslie.hartzell@rve.com>; Kyle Carlson <Kyle.Carlson@rve.com>
Subject: Chain of Custody 11/4/25

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Secured by Check Point

Good morning yazmeen,

I took a look over our chains from yesterday and I noticed an error on our end. For our Sample EB-1, we put the incorrect number of bottles. The bottle numbers/analyses for EB-1 should match the analyses for Fb-1. Attached a picture of the chain below for reference. Please let me know if you have any questions

RELINQUISHED BY SAMPLER:

1. Anna Meyer

RELINQUISHED BY SAMPLER:

2.

RELINQUISHED BY SAMPLER:

3.

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From: Yazmeen Gomez
Sent: Wednesday, November 05, 2025 10:14 AM
To: Kyle Carlson
Subject: RE: Login Summary Details For Project Edison Landfill-Q3534.

Good morning Kyle,

I meant to send an email to Justin yesterday. We did not receive the TB.
We received the vials for the samples, EBs and FBs but the TB's were the only vials missing from the coolers.

I had Sample Management double check the labels and each vial to make sure they weren't overlooked but no TBs were found.

The TB's would be Two 40mL Vials with HCL.

Best Regards,



Yazmeen Gomez
Sr. Project Manager
An Alliance Technical Group Company
Main: 908-789-8900
Direct: 908-728-3147
Address: 284 Sheffield St, Ste 1, Mountainside, NJ 07092
www.alliancetg.com    

From: Kyle Carlson <Kyle.Carlson@rve.com>
Sent: Wednesday, November 5, 2025 10:06 AM
To: Yazmeen Gomez <yazmeen.gomez@alliancetg.com>
Subject: Fw: Login Summary Details For Project Edison Landfill-Q3534.

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Secured by Check Point

Good morning Yazmeen - Could I please request that the Trip Blank "TB-1" sample is added to this project login? We had this one on the COC but I didn't see it here in the login.

Please let me know, thanks!

Regards,

Kyle Carlson, LSRP

Environmental Project Manager

Remington & Vernick Engineers

2059 Springdale Road

Cherry Hill, NJ 08003

Cell: (609) 682-3049

Kyle.Carlson@rve.com



Offices throughout NJ • PA • MD • DE • NC

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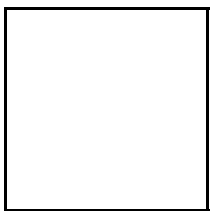
From: Data-EWR@alliancetg.com <Data-EWR@alliancetg.com>

Sent: Tuesday, November 4, 2025 3:27 PM

To: Kyle Carlson <Kyle.Carlson@rve.com>

Cc: YAZMEEN.GOMEZ@AllianceTG.com <YAZMEEN.GOMEZ@AllianceTG.com>

Subject: Login Summary Details For Project Edison Landfill-Q3534.



To Kyle Carlson;

Please see the attached Login Summary for the following project, or download the file using your login credentials from the link below.

Order ID	: Q3534
Project ID	: Edison Landfill
Download File	: https://chemtech.net/secureLogin.aspx
Order Date	: 11/4/2025 1:29:44 PM

Alliance's Project Manager : YAZMEEN GOMEZ , YAZMEEN.GOMEZ@AllianceTG.com , 908-728-3147

Alliance's Sales Executive : Jordan Hedvat , Jordan.Hedvat@AllianceTG.com , 908-728-3144

Thank you for the opportunity to provide you with our services. For any questions please feel free to contact your project manager.

Click Here for our short online customer Survey <http://chemtech.net/ClientSurvey.aspx>.

Thank you,

Alliance Technical Group LLC.

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