

## DATA REPORTING QUALIFIERS- INORGANIC

For reporting results, the following “ Results Qualifiers” are used:

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

## LAB CHRONICLE

|                 |                    |                   |                       |
|-----------------|--------------------|-------------------|-----------------------|
| <b>OrderID:</b> | Q3777              | <b>OrderDate:</b> | 12/4/2025 11:29:00 AM |
| <b>Client:</b>  | ATG-GREENVILLE AEC | <b>Project:</b>   | AEC-2025-0013         |
| <b>Contact:</b> | Staci Bruce        | <b>Location:</b>  | A11                   |

| LabID           | ClientID    | Matrix       | Test             | Method                                          | Sample Date               | Prep Date | Anal Date         | Received        |
|-----------------|-------------|--------------|------------------|-------------------------------------------------|---------------------------|-----------|-------------------|-----------------|
| <b>Q3777-01</b> | <b>SW-1</b> | <b>WATER</b> |                  |                                                 | <b>12/02/25<br/>16:30</b> |           |                   | <b>12/04/25</b> |
|                 |             |              | Anions Group1    | 300.0                                           |                           |           | 12/04/25<br>13:50 |                 |
|                 |             |              | Oil and Grease   | 1664A                                           |                           |           | 12/08/25<br>12:37 |                 |
|                 |             |              | Phosphorus-Total | 365.3                                           |                           | 12/05/25  | 12/05/25<br>13:49 |                 |
|                 |             |              | TKN              | SM4500-N<br>Org C-11 plus<br>NH3 B plus<br>G-11 |                           | 12/05/25  | 12/05/25<br>14:22 |                 |
|                 |             |              | Total Nitrogen   | Cal                                             |                           |           | 12/05/25<br>14:22 |                 |
|                 |             |              | TSS              | SM2540 D                                        |                           |           | 12/04/25<br>16:00 |                 |



# SAMPLE DATA

## Report of Analysis

Client: ATG-GREENVILLE AEC  
Project: AEC-2025-0013  
Client Sample ID: SW-1  
Lab Sample ID: Q3777-01

Date Collected: 12/02/25 16:30  
Date Received: 12/04/25  
SDG No.: Q3777  
Matrix: WATER  
% Solid: 0

| Parameter         | Conc. | Qua. | DF | MDL    | LOQ / CRQL | Units | Prep Date      | Date Ana.      | Ana Met.                                         |
|-------------------|-------|------|----|--------|------------|-------|----------------|----------------|--------------------------------------------------|
| Nitrite           | 0.084 | J    | 1  | 0.074  | 0.60       | mg/L  |                | 12/04/25 13:50 | 300.0                                            |
| Nitrate           | 0.22  | J    | 1  | 0.095  | 0.50       | mg/L  |                | 12/04/25 13:50 | 300.0                                            |
| Nitrate+Nitrite   | 0.30  | J    | 1  | 0.17   | 1.10       | mg/L  |                | 12/04/25 13:50 | 300.0                                            |
| Oil and Grease    | 5.75  |      | 1  | 0.29   | 5.00       | mg/L  |                | 12/08/25 12:37 | 1664A                                            |
| Phosphorus, Total | 0.21  |      | 1  | 0.0050 | 0.050      | mg/L  | 12/05/25 10:45 | 12/05/25 13:49 | 365.3                                            |
| TKN               | 1.60  |      | 1  | 0.11   | 0.50       | mg/L  | 12/05/25 08:50 | 12/05/25 14:22 | SM4500-N Org<br>C-21 plus NH3<br>B plus G-21     |
| Nitrogen          | 1.90  |      | 1  | 0.31   | 1.30       | mg/L  |                | 12/05/25 14:22 | SM 4500-N<br>Org C-11 plus<br>NH3 B plus<br>G-11 |
| TSS               | 2030  |      | 1  | 1.00   | 4.00       | mg/L  |                | 12/04/25 16:00 | SM 2540 D-20                                     |

Comments: \_\_\_\_\_

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

D = Dilution

Q = indicates LCS control criteria did not meet requirements

H = Sample Analysis Out Of Hold Time

J = Estimated Value

B = Analyte Found in Associated Method Blank

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

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

OR = Over Range

N =Spiked sample recovery not within control limits



# QC RESULT SUMMARY

## Initial and Continuing Calibration Verification

**Client:** ATG-GREENVILLE AEC

**SDG No.:** Q3777

**Project:** AEC-2025-0013

**RunNo.:** LB138120

| Analyte                | Units | Result | True Value | % Recovery | Acceptance Window (%R) | Analysis Date |
|------------------------|-------|--------|------------|------------|------------------------|---------------|
| <b>Sample ID: ICV1</b> |       |        |            |            |                        |               |
| Bromide                | mg/L  | 10.1   | 10         | 101        | 90-110                 | 12/01/2025    |
| Chloride               | mg/L  | 3      | 3          | 100        | 90-110                 | 12/01/2025    |
| Fluoride               | mg/L  | 2      | 2          | 100        | 90-110                 | 12/01/2025    |
| Nitrite                | mg/L  | 3      | 3          | 100        | 90-110                 | 12/01/2025    |
| Nitrate                | mg/L  | 2.5    | 2.5        | 100        | 90-110                 | 12/01/2025    |
| Sulfate                | mg/L  | 14.9   | 15         | 99         | 90-110                 | 12/01/2025    |
| Orthophosphate as P    | mg/L  | 5.4    | 5          | 108        | 90-110                 | 12/01/2025    |
| <b>Sample ID: CCV1</b> |       |        |            |            |                        |               |
| Bromide                | mg/L  | 10     | 10         | 100        | 90-110                 | 12/04/2025    |
| Chloride               | mg/L  | 3      | 3          | 100        | 90-110                 | 12/04/2025    |
| Fluoride               | mg/L  | 2      | 2          | 100        | 90-110                 | 12/04/2025    |
| Nitrite                | mg/L  | 3      | 3          | 100        | 90-110                 | 12/04/2025    |
| Nitrate                | mg/L  | 2.5    | 2.5        | 100        | 90-110                 | 12/04/2025    |
| Sulfate                | mg/L  | 14.7   | 15         | 98         | 90-110                 | 12/04/2025    |
| Orthophosphate as P    | mg/L  | 5.4    | 5          | 108        | 90-110                 | 12/04/2025    |
| <b>Sample ID: CCV2</b> |       |        |            |            |                        |               |
| Bromide                | mg/L  | 9.4    | 10         | 94         | 90-110                 | 12/04/2025    |
| Chloride               | mg/L  | 2.9    | 3          | 97         | 90-110                 | 12/04/2025    |
| Fluoride               | mg/L  | 1.9    | 2          | 95         | 90-110                 | 12/04/2025    |
| Nitrite                | mg/L  | 2.8    | 3          | 93         | 90-110                 | 12/04/2025    |
| Nitrate                | mg/L  | 2.4    | 2.5        | 96         | 90-110                 | 12/04/2025    |
| Sulfate                | mg/L  | 14.1   | 15         | 94         | 90-110                 | 12/04/2025    |
| Orthophosphate as P    | mg/L  | 5.1    | 5          | 102        | 90-110                 | 12/04/2025    |

## Initial and Continuing Calibration Verification

**Client:** ATG-GREENVILLE AEC

**SDG No.:** Q3777

**Project:** AEC-2025-0013

**RunNo.:** LB138131

| Analyte                       | Units | Result | True Value | % Recovery | Acceptance Window (%R) | Analysis Date |
|-------------------------------|-------|--------|------------|------------|------------------------|---------------|
| Sample ID: <b>ICV1</b><br>TKN | mg/L  | 5      | 5          | 100        | 90-110                 | 12/05/2025    |
| Sample ID: <b>CCV1</b><br>TKN | mg/L  | 5.1    | 5          | 102        | 90-110                 | 12/05/2025    |
| Sample ID: <b>CCV2</b><br>TKN | mg/L  | 5      | 5          | 100        | 90-110                 | 12/05/2025    |
| Sample ID: <b>CCV3</b><br>TKN | mg/L  | 5.1    | 5          | 102        | 90-110                 | 12/05/2025    |

## Initial and Continuing Calibration Verification

**Client:** ATG-GREENVILLE AEC

**SDG No.:** Q3777

**Project:** AEC-2025-0013

**RunNo.:** LB138132

| Analyte                                     | Units | Result | True Value | % Recovery | Acceptance Window (%R) | Analysis Date |
|---------------------------------------------|-------|--------|------------|------------|------------------------|---------------|
| Sample ID: <b>ICV</b><br>Phosphorus, Total  | mg/L  | 0.522  | 0.50       | 104        | 90-110                 | 12/05/2025    |
| Sample ID: <b>CCV1</b><br>Phosphorus, Total | mg/L  | 0.499  | 0.50       | 100        | 90-110                 | 12/05/2025    |
| Sample ID: <b>CCV2</b><br>Phosphorus, Total | mg/L  | 0.507  | 0.50       | 101        | 90-110                 | 12/05/2025    |
| Sample ID: <b>CCV3</b><br>Phosphorus, Total | mg/L  | 0.498  | 0.50       | 100        | 90-110                 | 12/05/2025    |

## Initial and Continuing Calibration Verification

**Client:** ATG-GREENVILLE AEC

**SDG No.:** Q3777

**Project:** AEC-2025-0013

**RunNo.:** LB138132

| Analyte | Units | Result | True Value | %<br>Recovery | Acceptance<br>Window (%R) | Analysis<br>Date |
|---------|-------|--------|------------|---------------|---------------------------|------------------|
|---------|-------|--------|------------|---------------|---------------------------|------------------|

## Initial and Continuing Calibration Blank Summary

**Client:** ATG-GREENVILLE AEC

**SDG No.:** Q3777

**Project:** AEC-2025-0013

**RunNo.:** LB138120

| Analyte                | Units | Result   | Acceptance Limits | Conc Qual | MDL   | RDL | Analysis Date |
|------------------------|-------|----------|-------------------|-----------|-------|-----|---------------|
| <b>Sample ID: ICB1</b> |       |          |                   |           |       |     |               |
| Bromide                | mg/L  | < 1.0000 | 1.0000            | U         | 0.37  | 2   | 12/01/2025    |
| Chloride               | mg/L  | < 0.3000 | 0.3000            | U         | 0.19  | 0.6 | 12/01/2025    |
| Fluoride               | mg/L  | < 0.2000 | 0.2000            | U         | 0.11  | 0.4 | 12/01/2025    |
| Nitrite                | mg/L  | < 0.3000 | 0.3000            | U         | 0.074 | 0.6 | 12/01/2025    |
| Nitrate                | mg/L  | < 0.2500 | 0.2500            | U         | 0.095 | 0.5 | 12/01/2025    |
| Sulfate                | mg/L  | < 1.5000 | 1.5000            | U         | 0.46  | 3   | 12/01/2025    |
| Orthophosphate as P    | mg/L  | < 0.5000 | 0.5000            | U         | 0.34  | 1   | 12/01/2025    |
| <b>Sample ID: CCB1</b> |       |          |                   |           |       |     |               |
| Bromide                | mg/L  | < 1.0000 | 1.0000            | U         | 0.37  | 2   | 12/04/2025    |
| Chloride               | mg/L  | < 0.3000 | 0.3000            | U         | 0.19  | 0.6 | 12/04/2025    |
| Fluoride               | mg/L  | < 0.2000 | 0.2000            | U         | 0.11  | 0.4 | 12/04/2025    |
| Nitrite                | mg/L  | < 0.3000 | 0.3000            | U         | 0.074 | 0.6 | 12/04/2025    |
| Nitrate                | mg/L  | < 0.2500 | 0.2500            | U         | 0.095 | 0.5 | 12/04/2025    |
| Sulfate                | mg/L  | < 1.5000 | 1.5000            | U         | 0.46  | 3   | 12/04/2025    |
| Orthophosphate as P    | mg/L  | < 0.5000 | 0.5000            | U         | 0.34  | 1   | 12/04/2025    |
| <b>Sample ID: CCB2</b> |       |          |                   |           |       |     |               |
| Bromide                | mg/L  | < 1.0000 | 1.0000            | U         | 0.37  | 2   | 12/04/2025    |
| Chloride               | mg/L  | < 0.3000 | 0.3000            | U         | 0.19  | 0.6 | 12/04/2025    |
| Fluoride               | mg/L  | < 0.2000 | 0.2000            | U         | 0.11  | 0.4 | 12/04/2025    |
| Nitrite                | mg/L  | < 0.3000 | 0.3000            | U         | 0.074 | 0.6 | 12/04/2025    |
| Nitrate                | mg/L  | < 0.2500 | 0.2500            | U         | 0.095 | 0.5 | 12/04/2025    |
| Sulfate                | mg/L  | < 1.5000 | 1.5000            | U         | 0.46  | 3   | 12/04/2025    |
| Orthophosphate as P    | mg/L  | < 0.5000 | 0.5000            | U         | 0.34  | 1   | 12/04/2025    |

### Initial and Continuing Calibration Blank Summary

**Client:** ATG-GREENVILLE AEC

**SDG No.:** Q3777

**Project:** AEC-2025-0013

**RunNo.:** LB138131

| Analyte                       | Units | Result   | Acceptance Limits | Conc Qual | MDL  | RDL | Analysis Date |
|-------------------------------|-------|----------|-------------------|-----------|------|-----|---------------|
| Sample ID: <b>ICB1</b><br>TKN | mg/L  | < 0.2500 | 0.2500            | U         | 0.11 | 0.5 | 12/05/2025    |
| Sample ID: <b>CCB1</b><br>TKN | mg/L  | < 0.2500 | 0.2500            | U         | 0.11 | 0.5 | 12/05/2025    |
| Sample ID: <b>CCB2</b><br>TKN | mg/L  | < 0.2500 | 0.2500            | U         | 0.11 | 0.5 | 12/05/2025    |
| Sample ID: <b>CCB3</b><br>TKN | mg/L  | < 0.2500 | 0.2500            | U         | 0.11 | 0.5 | 12/05/2025    |

### Initial and Continuing Calibration Blank Summary

**Client:** ATG-GREENVILLE AEC

**SDG No.:** Q3777

**Project:** AEC-2025-0013

**RunNo.:** LB138132

| Analyte                                     | Units | Result | Acceptance<br>Limits | Conc<br>Qual | MDL    | RDL  | Analysis<br>Date |
|---------------------------------------------|-------|--------|----------------------|--------------|--------|------|------------------|
| Sample ID: <b>ICB</b><br>Phosphorus, Total  | mg/L  | 0.010  | 0.0250               | J            | 0.0045 | 0.05 | 12/05/2025       |
| Sample ID: <b>CCB1</b><br>Phosphorus, Total | mg/L  | 0.009  | 0.0250               | J            | 0.0045 | 0.05 | 12/05/2025       |
| Sample ID: <b>CCB2</b><br>Phosphorus, Total | mg/L  | 0.010  | 0.0250               | J            | 0.0045 | 0.05 | 12/05/2025       |
| Sample ID: <b>CCB3</b><br>Phosphorus, Total | mg/L  | 0.010  | 0.0250               | J            | 0.0045 | 0.05 | 12/05/2025       |

### Initial and Continuing Calibration Blank Summary

**Client:** ATG-GREENVILLE AEC

**SDG No.:** Q3777

**Project:** AEC-2025-0013

**RunNo.:** LB138132

| Analyte | Units | Result | Acceptance<br>Limits | Conc<br>Qual | MDL | RDL | Analysis<br>Date |
|---------|-------|--------|----------------------|--------------|-----|-----|------------------|
|---------|-------|--------|----------------------|--------------|-----|-----|------------------|

## Preparation Blank Summary

**Client:** ATG-GREENVILLE AEC

**SDG No.:** Q3777

**Project:** AEC-2025-0013

| Analyte                       | Units | Result   | Acceptance Limits | Conc Qual | MDL   | RDL  | Analysis Date |
|-------------------------------|-------|----------|-------------------|-----------|-------|------|---------------|
| Sample ID: <b>LB138118BL</b>  |       |          |                   |           |       |      |               |
| TSS                           | mg/L  | 1        | 2.0000            | J         | 1     | 4    | 12/04/2025    |
| Sample ID: <b>LB138120BLW</b> |       |          |                   |           |       |      |               |
| Bromide                       | mg/L  | < 1.0000 | 1.0000            | U         | 0.37  | 2    | 12/04/2025    |
| Chloride                      | mg/L  | < 0.3000 | 0.3000            | U         | 0.19  | 0.6  | 12/04/2025    |
| Fluoride                      | mg/L  | < 0.2000 | 0.2000            | U         | 0.11  | 0.4  | 12/04/2025    |
| Nitrite                       | mg/L  | < 0.3000 | 0.3000            | U         | 0.074 | 0.6  | 12/04/2025    |
| Nitrate                       | mg/L  | < 0.2500 | 0.2500            | U         | 0.095 | 0.5  | 12/04/2025    |
| Sulfate                       | mg/L  | < 1.5000 | 1.5000            | U         | 0.46  | 3    | 12/04/2025    |
| Orthophosphate as P           | mg/L  | < 0.5000 | 0.5000            | U         | 0.34  | 1    | 12/04/2025    |
| Sample ID: <b>LB138150BL</b>  |       |          |                   |           |       |      |               |
| Oil and Grease                | mg/L  | < 2.5000 | 2.5000            | U         | 0.29  | 5.0  | 12/08/2025    |
| Sample ID: <b>PB170831BL</b>  |       |          |                   |           |       |      |               |
| TKN                           | mg/L  | < 0.2500 | 0.2500            | U         | 0.11  | 0.5  | 12/05/2025    |
| Sample ID: <b>PB170844BL</b>  |       |          |                   |           |       |      |               |
| Phosphorus, Total             | mg/L  | 0.009    | 0.0250            | J         | 0.005 | 0.05 | 12/05/2025    |

### Matrix Spike Summary

|                   |                    |                                         |          |
|-------------------|--------------------|-----------------------------------------|----------|
| <b>Client:</b>    | ATG-GREENVILLE AEC | <b>SDG No.:</b>                         | Q3777    |
| <b>Project:</b>   | AEC-2025-0013      | <b>Sample ID:</b>                       | Q3728-01 |
| <b>Client ID:</b> | SW-1MS             | <b>Percent Solids for Spike Sample:</b> | 0        |

| Analyte | Units | Acceptance<br>Limit %R | Spiked<br>Result | Conc.<br>Qualifier | Sample<br>Result | Conc.<br>Qualifier | Spike<br>Added | Dilution<br>Factor | %<br>Rec | Qual | Analysis<br>Date |
|---------|-------|------------------------|------------------|--------------------|------------------|--------------------|----------------|--------------------|----------|------|------------------|
| TKN     | mg/L  | 75-125                 | 5.00             |                    | 0.62             |                    | 5              | 1                  | 88       |      | 12/05/2025       |

### Matrix Spike Summary

|                   |                    |                                         |          |
|-------------------|--------------------|-----------------------------------------|----------|
| <b>Client:</b>    | ATG-GREENVILLE AEC | <b>SDG No.:</b>                         | Q3777    |
| <b>Project:</b>   | AEC-2025-0013      | <b>Sample ID:</b>                       | Q3728-01 |
| <b>Client ID:</b> | SW-1MSD            | <b>Percent Solids for Spike Sample:</b> | 0        |

| Analyte | Units | Acceptance<br>Limit %R | Spiked<br>Result | Conc.<br>Qualifier | Sample<br>Result | Conc.<br>Qualifier | Spike<br>Added | Dilution<br>Factor | %<br>Rec | Qual | Analysis<br>Date |
|---------|-------|------------------------|------------------|--------------------|------------------|--------------------|----------------|--------------------|----------|------|------------------|
| TKN     | mg/L  | 75-125                 | 5.10             |                    | 0.62             |                    | 5              | 1                  | 90       |      | 12/05/2025       |

### Matrix Spike Summary

|                   |                    |                                         |          |
|-------------------|--------------------|-----------------------------------------|----------|
| <b>Client:</b>    | ATG-GREENVILLE AEC | <b>SDG No.:</b>                         | Q3777    |
| <b>Project:</b>   | AEC-2025-0013      | <b>Sample ID:</b>                       | Q3772-01 |
| <b>Client ID:</b> | EFFLUENTMS         | <b>Percent Solids for Spike Sample:</b> | 0        |

| Analyte        | Units | Acceptance<br>Limit %R | Spiked<br>Result | Conc.<br>Qualifier | Sample<br>Result | Conc.<br>Qualifier | Spike<br>Added | Dilution<br>Factor | %<br>Rec | Qual | Analysis<br>Date |
|----------------|-------|------------------------|------------------|--------------------|------------------|--------------------|----------------|--------------------|----------|------|------------------|
| Oil and Grease | mg/L  | 78-114                 | 31.1             |                    | 10.2             |                    | 20.0           | 1                  | 105      |      | 12/08/2025       |

### Matrix Spike Summary

|                   |                    |                                         |          |
|-------------------|--------------------|-----------------------------------------|----------|
| <b>Client:</b>    | ATG-GREENVILLE AEC | <b>SDG No.:</b>                         | Q3777    |
| <b>Project:</b>   | AEC-2025-0013      | <b>Sample ID:</b>                       | Q3772-01 |
| <b>Client ID:</b> | EFFLUENTMSD        | <b>Percent Solids for Spike Sample:</b> | 0        |

| Analyte        | Units | Acceptance<br>Limit %R | Spiked<br>Result | Conc.<br>Qualifier | Sample<br>Result | Conc.<br>Qualifier | Spike<br>Added | Dilution<br>Factor | %<br>Rec | Qual | Analysis<br>Date |
|----------------|-------|------------------------|------------------|--------------------|------------------|--------------------|----------------|--------------------|----------|------|------------------|
| Oil and Grease | mg/L  | 78-114                 | 30.9             |                    | 10.2             |                    | 20.0           | 1                  | 104      |      | 12/08/2025       |

## Matrix Spike Summary

|                   |                    |                                         |          |
|-------------------|--------------------|-----------------------------------------|----------|
| <b>Client:</b>    | ATG-GREENVILLE AEC | <b>SDG No.:</b>                         | Q3777    |
| <b>Project:</b>   | AEC-2025-0013      | <b>Sample ID:</b>                       | Q3778-01 |
| <b>Client ID:</b> | SW-2MS             | <b>Percent Solids for Spike Sample:</b> | 0        |

| Analyte             | Units | Acceptance<br>Limit %R | Spiked<br>Result | Conc.<br>Qualifier | Sample<br>Result | Conc.<br>Qualifier | Spike<br>Added | Dilution<br>Factor | %<br>Rec | Qual | Analysis<br>Date |
|---------------------|-------|------------------------|------------------|--------------------|------------------|--------------------|----------------|--------------------|----------|------|------------------|
| Bromide             | mg/L  | 80-120                 | 10.2             |                    | 0.37             | U                  | 10             | 1                  | 102      |      | 12/04/2025       |
| Phosphorus, Total   | mg/L  | 90-110                 | 0.53             |                    | 0.064            |                    | 0.5            | 1                  | 93       |      | 12/05/2025       |
| Chloride            | mg/L  | 80-120                 | 141              | OR                 | 145              | OR                 | 3              | 1                  | -133     | *    | 12/04/2025       |
| Fluoride            | mg/L  | 80-120                 | 2.10             |                    | 0.11             | U                  | 2              | 1                  | 105      |      | 12/04/2025       |
| Nitrite             | mg/L  | 80-120                 | 3.10             |                    | 0.078            | J                  | 3              | 1                  | 101      |      | 12/04/2025       |
| Nitrate             | mg/L  | 80-120                 | 2.60             |                    | 0.14             | J                  | 2.5            | 1                  | 98       |      | 12/04/2025       |
| Sulfate             | mg/L  | 80-120                 | 18.6             |                    | 3.80             |                    | 15             | 1                  | 99       |      | 12/04/2025       |
| Orthophosphate as P | mg/L  | 80-120                 | 4.60             |                    | 0.34             | U                  | 5              | 1                  | 92       |      | 12/04/2025       |

## Matrix Spike Summary

|                   |                    |                                         |          |
|-------------------|--------------------|-----------------------------------------|----------|
| <b>Client:</b>    | ATG-GREENVILLE AEC | <b>SDG No.:</b>                         | Q3777    |
| <b>Project:</b>   | AEC-2025-0013      | <b>Sample ID:</b>                       | Q3778-01 |
| <b>Client ID:</b> | SW-2MSD            | <b>Percent Solids for Spike Sample:</b> | 0        |

| Analyte             | Units | Acceptance<br>Limit %R | Spiked<br>Result | Conc.<br>Qualifier | Sample<br>Result | Conc.<br>Qualifier | Spike<br>Added | Dilution<br>Factor | %<br>Rec | Qual | Analysis<br>Date |
|---------------------|-------|------------------------|------------------|--------------------|------------------|--------------------|----------------|--------------------|----------|------|------------------|
| Bromide             | mg/L  | 80-120                 | 9.70             |                    | 0.37             | U                  | 10             | 1                  | 97       |      | 12/04/2025       |
| Phosphorus, Total   | mg/L  | 90-110                 | 0.52             |                    | 0.064            |                    | 0.5            | 1                  | 92       |      | 12/05/2025       |
| Chloride            | mg/L  | 80-120                 | 142              | OR                 | 145              | OR                 | 3              | 1                  | -100     | *    | 12/04/2025       |
| Fluoride            | mg/L  | 80-120                 | 2.10             |                    | 0.11             | U                  | 2              | 1                  | 105      |      | 12/04/2025       |
| Nitrite             | mg/L  | 80-120                 | 3.00             |                    | 0.078            | J                  | 3              | 1                  | 97       |      | 12/04/2025       |
| Nitrate             | mg/L  | 80-120                 | 2.50             |                    | 0.14             | J                  | 2.5            | 1                  | 94       |      | 12/04/2025       |
| Sulfate             | mg/L  | 80-120                 | 17.9             |                    | 3.80             |                    | 15             | 1                  | 94       |      | 12/04/2025       |
| Orthophosphate as P | mg/L  | 80-120                 | 5.30             |                    | 0.34             | U                  | 5              | 1                  | 106      |      | 12/04/2025       |

### Matrix Spike Summary

|                   |                            |                                         |          |
|-------------------|----------------------------|-----------------------------------------|----------|
| <b>Client:</b>    | ATG-GREENVILLE AEC         | <b>SDG No.:</b>                         | Q3777    |
| <b>Project:</b>   | AEC-2025-0013              | <b>Sample ID:</b>                       | Q3785-01 |
| <b>Client ID:</b> | WATER-TREATMEN DISCHARGEMS | <b>Percent Solids for Spike Sample:</b> | 0        |

| Analyte        | Units | Acceptance<br>Limit %R | Spiked<br>Result | Conc.<br>Qualifier | Sample<br>Result | Conc.<br>Qualifier | Spike<br>Added | Dilution<br>Factor | %<br>Rec | Qual | Analysis<br>Date |
|----------------|-------|------------------------|------------------|--------------------|------------------|--------------------|----------------|--------------------|----------|------|------------------|
| Oil and Grease | mg/L  | 78-114                 | 23.8             |                    | 3.30             | J                  | 20.0           | 1                  | 103      |      | 12/08/2025       |

### Matrix Spike Summary

|                   |                             |                                         |          |
|-------------------|-----------------------------|-----------------------------------------|----------|
| <b>Client:</b>    | ATG-GREENVILLE AEC          | <b>SDG No.:</b>                         | Q3777    |
| <b>Project:</b>   | AEC-2025-0013               | <b>Sample ID:</b>                       | Q3785-01 |
| <b>Client ID:</b> | WATER-TREATMEN DISCHARGEMSD | <b>Percent Solids for Spike Sample:</b> | 0        |

| Analyte        | Units | Acceptance<br>Limit %R | Spiked<br>Result | Conc.<br>Qualifier | Sample<br>Result | Conc.<br>Qualifier | Spike<br>Added | Dilution<br>Factor | %<br>Rec | Qual | Analysis<br>Date |
|----------------|-------|------------------------|------------------|--------------------|------------------|--------------------|----------------|--------------------|----------|------|------------------|
| Oil and Grease | mg/L  | 78-114                 | 24.1             |                    | 3.30             | J                  | 20.0           | 1                  | 104      |      | 12/08/2025       |

### Matrix Spike Summary

|                   |                    |                                         |          |
|-------------------|--------------------|-----------------------------------------|----------|
| <b>Client:</b>    | ATG-GREENVILLE AEC | <b>SDG No.:</b>                         | Q3777    |
| <b>Project:</b>   | AEC-2025-0013      | <b>Sample ID:</b>                       | Q3793-01 |
| <b>Client ID:</b> | MH-1252025MS       | <b>Percent Solids for Spike Sample:</b> | 0        |

| Analyte        | Units | Acceptance<br>Limit %R | Spiked<br>Result | Conc.<br>Qualifier | Sample<br>Result | Conc.<br>Qualifier | Spike<br>Added | Dilution<br>Factor | %<br>Rec | Qual | Analysis<br>Date |
|----------------|-------|------------------------|------------------|--------------------|------------------|--------------------|----------------|--------------------|----------|------|------------------|
| Oil and Grease | mg/L  | 78-114                 | 397              |                    | 377              |                    | 20.0           | 1                  | 103      |      | 12/08/2025       |

### Matrix Spike Summary

|                   |                    |                                         |          |
|-------------------|--------------------|-----------------------------------------|----------|
| <b>Client:</b>    | ATG-GREENVILLE AEC | <b>SDG No.:</b>                         | Q3777    |
| <b>Project:</b>   | AEC-2025-0013      | <b>Sample ID:</b>                       | Q3793-01 |
| <b>Client ID:</b> | MH-1252025MSD      | <b>Percent Solids for Spike Sample:</b> | 0        |

| Analyte        | Units | Acceptance<br>Limit %R | Spiked<br>Result | Conc.<br>Qualifier | Sample<br>Result | Conc.<br>Qualifier | Spike<br>Added | Dilution<br>Factor | %<br>Rec | Qual | Analysis<br>Date |
|----------------|-------|------------------------|------------------|--------------------|------------------|--------------------|----------------|--------------------|----------|------|------------------|
| Oil and Grease | mg/L  | 78-114                 | 398              |                    | 377              |                    | 20.0           | 1                  | 107      |      | 12/08/2025       |

### Duplicate Sample Summary

|                   |                    |                                         |          |
|-------------------|--------------------|-----------------------------------------|----------|
| <b>Client:</b>    | ATG-GREENVILLE AEC | <b>SDG No.:</b>                         | Q3777    |
| <b>Project:</b>   | AEC-2025-0013      | <b>Sample ID:</b>                       | Q3728-01 |
| <b>Client ID:</b> | SW-1DUP            | <b>Percent Solids for Spike Sample:</b> | 0        |

| Analyte | Units | Acceptance<br>Limit | Sample<br>Result | Conc.<br>Qualifier | Duplicate<br>Result | Conc.<br>Qualifier | Dilution<br>Factor | RPD/<br>AD | Qual | Analysis<br>Date |
|---------|-------|---------------------|------------------|--------------------|---------------------|--------------------|--------------------|------------|------|------------------|
| TKN     | mg/L  | +/-20               | 0.62             |                    | 0.63                |                    | 1                  | 2          |      | 12/05/2025       |

## Duplicate Sample Summary

|                                                                                                 |                                                                                                  |
|-------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|
| <b>Client:</b> ATG-GREENVILLE AEC<br><b>Project:</b> AEC-2025-0013<br><b>Client ID:</b> SW-1MSD | <b>SDG No.:</b> Q3777<br><b>Sample ID:</b> Q3728-01<br><b>Percent Solids for Spike Sample:</b> 0 |
|-------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|

| Analyte | Units | Acceptance<br>Limit | Sample<br>Result | Conc.<br>Qualifier | Duplicate<br>Result | Conc.<br>Qualifier | Dilution<br>Factor | RPD/<br>AD | Qual | Analysis<br>Date |
|---------|-------|---------------------|------------------|--------------------|---------------------|--------------------|--------------------|------------|------|------------------|
| TKN     | mg/L  | +/-20               | 5.00             |                    | 5.10                |                    | 1                  | 2          |      | 12/05/2025       |

### Duplicate Sample Summary

|                   |                       |                                         |          |
|-------------------|-----------------------|-----------------------------------------|----------|
| <b>Client:</b>    | ATG-GREENVILLE AEC    | <b>SDG No.:</b>                         | Q3777    |
| <b>Project:</b>   | AEC-2025-0013         | <b>Sample ID:</b>                       | Q3760-02 |
| <b>Client ID:</b> | 002 35th Ave (Dec)DUP | <b>Percent Solids for Spike Sample:</b> | 0        |

| Analyte | Units | Acceptance<br>Limit | Sample<br>Result | Conc.<br>Qualifier | Duplicate<br>Result | Conc.<br>Qualifier | Dilution<br>Factor | RPD/<br>AD | Qual | Analysis<br>Date |
|---------|-------|---------------------|------------------|--------------------|---------------------|--------------------|--------------------|------------|------|------------------|
| TSS     | mg/L  | +/-5                | 131              |                    | 133                 |                    | 1                  | 1.51       |      | 12/04/2025       |

## Duplicate Sample Summary

|                                   |                                           |
|-----------------------------------|-------------------------------------------|
| <b>Client:</b> ATG-GREENVILLE AEC | <b>SDG No.:</b> Q3777                     |
| <b>Project:</b> AEC-2025-0013     | <b>Sample ID:</b> Q3772-01                |
| <b>Client ID:</b> EFFLUENTMSD     | <b>Percent Solids for Spike Sample:</b> 0 |

| Analyte        | Units | Acceptance<br>Limit | Sample<br>Result | Conc.<br>Qualifier | Duplicate<br>Result | Conc.<br>Qualifier | Dilution<br>Factor | RPD/<br>AD | Qual | Analysis<br>Date |
|----------------|-------|---------------------|------------------|--------------------|---------------------|--------------------|--------------------|------------|------|------------------|
| Oil and Grease | mg/L  | +/-18               | 31.1             |                    | 30.9                |                    | 1                  | 0.65       |      | 12/08/2025       |

### Duplicate Sample Summary

|                   |                    |                                         |          |
|-------------------|--------------------|-----------------------------------------|----------|
| <b>Client:</b>    | ATG-GREENVILLE AEC | <b>SDG No.:</b>                         | Q3777    |
| <b>Project:</b>   | AEC-2025-0013      | <b>Sample ID:</b>                       | Q3778-01 |
| <b>Client ID:</b> | SW-2DUP            | <b>Percent Solids for Spike Sample:</b> | 0        |

| Analyte           | Units | Acceptance<br>Limit | Sample<br>Result | Conc.<br>Qualifier | Duplicate<br>Result | Conc.<br>Qualifier | Dilution<br>Factor | RPD/<br>AD | Qual | Analysis<br>Date |
|-------------------|-------|---------------------|------------------|--------------------|---------------------|--------------------|--------------------|------------|------|------------------|
| Phosphorus, Total | mg/L  | +/-20               | 0.064            |                    | 0.063               |                    | 1                  | 1.57       |      | 12/05/2025       |

## Duplicate Sample Summary

|                                   |                                           |
|-----------------------------------|-------------------------------------------|
| <b>Client:</b> ATG-GREENVILLE AEC | <b>SDG No.:</b> Q3777                     |
| <b>Project:</b> AEC-2025-0013     | <b>Sample ID:</b> Q3778-01                |
| <b>Client ID:</b> SW-2MSD         | <b>Percent Solids for Spike Sample:</b> 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      |      | 12/04/2025    |
| Chloride            | mg/L  | +/-20            | 141           |                 | 142              |                 | 1               | 1      |      | 12/04/2025    |
| Orthophosphate as P | mg/L  | +/-20            | 4.60          |                 | 5.30             |                 | 1               | 14     |      | 12/04/2025    |
| Nitrite             | mg/L  | +/-20            | 3.10          |                 | 3.00             |                 | 1               | 3      |      | 12/04/2025    |
| Nitrate             | mg/L  | +/-20            | 2.60          |                 | 2.50             |                 | 1               | 4      |      | 12/04/2025    |
| Sulfate             | mg/L  | +/-20            | 18.6          |                 | 17.9             |                 | 1               | 4      |      | 12/04/2025    |
| Bromide             | mg/L  | +/-20            | 10.2          |                 | 9.70             |                 | 1               | 5      |      | 12/04/2025    |
| Phosphorus, Total   | mg/L  | +/-20            | 0.53          |                 | 0.52             |                 | 1               | 0.95   |      | 12/05/2025    |

### Duplicate Sample Summary

|                   |                             |                                         |          |
|-------------------|-----------------------------|-----------------------------------------|----------|
| <b>Client:</b>    | ATG-GREENVILLE AEC          | <b>SDG No.:</b>                         | Q3777    |
| <b>Project:</b>   | AEC-2025-0013               | <b>Sample ID:</b>                       | Q3785-01 |
| <b>Client ID:</b> | WATER-TREATMEN DISCHARGEMSD | <b>Percent Solids for Spike Sample:</b> | 0        |

| Analyte        | Units | Acceptance<br>Limit | Sample<br>Result | Conc.<br>Qualifier | Duplicate<br>Result | Conc.<br>Qualifier | Dilution<br>Factor | RPD/<br>AD | Qual | Analysis<br>Date |
|----------------|-------|---------------------|------------------|--------------------|---------------------|--------------------|--------------------|------------|------|------------------|
| Oil and Grease | mg/L  | +/-18               | 23.8             |                    | 24.1                |                    | 1                  | 1.25       |      | 12/08/2025       |

### Duplicate Sample Summary

|                   |                    |                                         |          |
|-------------------|--------------------|-----------------------------------------|----------|
| <b>Client:</b>    | ATG-GREENVILLE AEC | <b>SDG No.:</b>                         | Q3777    |
| <b>Project:</b>   | AEC-2025-0013      | <b>Sample ID:</b>                       | Q3793-01 |
| <b>Client ID:</b> | MH-1252025MSD      | <b>Percent Solids for Spike Sample:</b> | 0        |

| Analyte        | Units | Acceptance<br>Limit | Sample<br>Result | Conc.<br>Qualifier | Duplicate<br>Result | Conc.<br>Qualifier | Dilution<br>Factor | RPD/<br>AD | Qual | Analysis<br>Date |
|----------------|-------|---------------------|------------------|--------------------|---------------------|--------------------|--------------------|------------|------|------------------|
| Oil and Grease | mg/L  | +/-18               | 397              |                    | 398                 |                    | 1                  | 0.2        |      | 12/08/2025       |

### Laboratory Control Sample Summary

**Client:** ATG-GREENVILLE AEC

**SDG No.:** Q3777

**Project:** AEC-2025-0013

**Run No.:** LB138118

| Analyte   | Units      | True Value | Result | Conc. Qualifier | % Recovery | Dilution Factor | Acceptance Limit %R | Analysis Date |
|-----------|------------|------------|--------|-----------------|------------|-----------------|---------------------|---------------|
| Sample ID | LB138118BS |            |        |                 |            |                 |                     |               |
| TSS       | mg/L       | 550        | 556    |                 | 101        | 1               | 90-110              | 12/04/2025    |

### Laboratory Control Sample Summary

**Client:** ATG-GREENVILLE AEC

**SDG No.:** Q3777

**Project:** AEC-2025-0013

**Run No.:** LB138120

| Analyte             | Units       | True Value | Result | Conc. Qualifier | % Recovery | Dilution Factor | Acceptance Limit %R | Analysis Date |
|---------------------|-------------|------------|--------|-----------------|------------|-----------------|---------------------|---------------|
| Sample ID           | LB138120BSW |            |        |                 |            |                 |                     |               |
| Bromide             | mg/L        | 10         | 9.50   |                 | 95         | 1               | 90-110              | 12/04/2025    |
| Chloride            | mg/L        | 3          | 2.90   |                 | 97         | 1               | 90-110              | 12/04/2025    |
| Fluoride            | mg/L        | 2          | 1.90   |                 | 95         | 1               | 90-110              | 12/04/2025    |
| Nitrite             | mg/L        | 3          | 2.90   |                 | 97         | 1               | 90-110              | 12/04/2025    |
| Nitrate             | mg/L        | 2.5        | 2.40   |                 | 96         | 1               | 90-110              | 12/04/2025    |
| Sulfate             | mg/L        | 15         | 14.1   |                 | 94         | 1               | 90-110              | 12/04/2025    |
| Orthophosphate as P | mg/L        | 5          | 4.90   |                 | 98         | 1               | 90-110              | 12/04/2025    |

### Laboratory Control Sample Summary

**Client:** ATG-GREENVILLE AEC

**SDG No.:** Q3777

**Project:** AEC-2025-0013

**Run No.:** LB138150

| Analyte        | Units      | True Value | Result | Conc. Qualifier | % Recovery | Dilution Factor | Acceptance Limit %R | Analysis Date |
|----------------|------------|------------|--------|-----------------|------------|-----------------|---------------------|---------------|
| Sample ID      | LB138150BS |            |        |                 |            |                 |                     |               |
| Oil and Grease | mg/L       | 20.0       | 16.7   |                 | 84         | 1               | 78-114              | 12/08/2025    |

### Laboratory Control Sample Summary

**Client:** ATG-GREENVILLE AEC

**SDG No.:** Q3777

**Project:** AEC-2025-0013

**Run No.:** LB138131

| Analyte   | Units      | True Value | Result | Conc. Qualifier | % Recovery | Dilution Factor | Acceptance Limit %R | Analysis Date |
|-----------|------------|------------|--------|-----------------|------------|-----------------|---------------------|---------------|
| Sample ID | PB170831BS |            |        |                 |            |                 |                     |               |
| TKN       | mg/L       | 5          | 5.00   |                 | 100        | 1               | 90-110              | 12/05/2025    |

### Laboratory Control Sample Summary

**Client:** ATG-GREENVILLE AEC

**SDG No.:** Q3777

**Project:** AEC-2025-0013

**Run No.:** LB138132

| Analyte           | Units      | True Value | Result | Conc. Qualifier | % Recovery | Dilution Factor | Acceptance Limit %R | Analysis Date |
|-------------------|------------|------------|--------|-----------------|------------|-----------------|---------------------|---------------|
| Sample ID         | PB170844BS |            |        |                 |            |                 |                     |               |
| Phosphorus, Total | mg/L       | 0.50       | 0.52   |                 | 104        | 1               | 90-110              | 12/05/2025    |



# RAW DATA

**TOTAL SUSPENDED SOLIDS - SM2540D**

**SUPERVISOR:** Iwona

**ANALYST:** jignesh

**Date:** 12/04/2025

**Run Number:** LB138118

**BalanceID:** WC SC-5

**OvenID:** WC OVEN-1

**FilterID:** 17416528

**ThermometerID:** WET OVEN#1

**TEMP1 IN:** 104 °C 12/04/2025 10:00 **TEMP1 OUT:** 103 °C 12/04/2025 11:00  
**TEMP2 IN:** 104 °C 12/04/2025 11:30 **TEMP2 OUT:** 103 °C 12/04/2025 12:30  
**TEMP3 IN:** 104 °C 12/04/2025 16:00 **TEMP3 OUT:** 103 °C 12/04/2025 17:30  
**TEMP4 IN:** 104 °C 12/04/2025 18:00 **TEMP4 OUT:** 103 °C 12/04/2025 19:35

| Dish # | Lab ID      | Client ID                 | Empty Dish Weight (g) | Final Empty Dish Weight (g) | Sample Volume (ml) | 1st Empty Dish+Sample weight after 1.5hr drying @103-@105°C (g) | 2nd Empty Dish+Sample weight after 1.5hr drying @103-@105°C (g) | Final Empty Dish+Sample weight after 1.5hr drying @103-@105°C (g) | Weight (g) | Result mg/L |
|--------|-------------|---------------------------|-----------------------|-----------------------------|--------------------|-----------------------------------------------------------------|-----------------------------------------------------------------|-------------------------------------------------------------------|------------|-------------|
| 1      | LB138118BL  | LB138118BL                | 1.5843                | 1.5843                      | 100                | 1.5844                                                          | 1.5844                                                          | 1.5844                                                            | 0.0001     | 1           |
| 2      | LB138118BS  | LB138118BS                | 1.3523                | 1.3523                      | 100                | 1.4079                                                          | 1.4079                                                          | 1.4079                                                            | 0.0556     | 556         |
| 3      | Q3760-01    | 001 Willets Pt Blvd (Dec) | 1.4945                | 1.4946                      | 100                | 1.5051                                                          | 1.5051                                                          | 1.5051                                                            | 0.0105     | 105         |
| 4      | Q3760-02    | 002 35th Ave (Dec)        | 1.4904                | 1.4905                      | 150                | 1.5102                                                          | 1.5102                                                          | 1.5102                                                            | 0.0197     | 131.3       |
| 5      | Q3760-02DUP | 002 35th Ave (Dec) DUP    | 1.4695                | 1.4695                      | 150                | 1.4895                                                          | 1.4895                                                          | 1.4895                                                            | 0.0200     | 133.3       |
| 6      | Q3771-02    | Comp                      | 1.4793                | 1.4793                      | 100                | 1.4929                                                          | 1.4929                                                          | 1.4929                                                            | 0.0136     | 136         |
| 7      | Q3772-01    | EFFLUENT                  | 1.5010                | 1.5010                      | 30                 | 1.5409                                                          | 1.5409                                                          | 1.5409                                                            | 0.0399     | 1330        |
| 8      | Q3772-04    | AERATION                  | 1.4777                | 1.4777                      | 30                 | 1.5115                                                          | 1.5115                                                          | 1.5115                                                            | 0.0338     | 1126.7      |
| 9      | Q3773-01    | TOWER#1                   | 1.4777                | 1.4777                      | 3000               | 1.4887                                                          | 1.4887                                                          | 1.4887                                                            | 0.0110     | 3.7         |
| 10     | Q3774-01    | DSN002                    | 1.4731                | 1.4731                      | 2000               | 1.4863                                                          | 1.4863                                                          | 1.4863                                                            | 0.0132     | 6.6         |
| 11     | Q3774-03    | DSN001                    | 1.4812                | 1.4812                      | 2000               | 1.5004                                                          | 1.5004                                                          | 1.5004                                                            | 0.0192     | 9.6         |
| 12     | Q3774-05    | DSN003                    | 1.4974                | 1.4974                      | 2000               | 1.5061                                                          | 1.5061                                                          | 1.5061                                                            | 0.0087     | 4.3         |
| 13     | Q3777-01    | SW-1                      | 1.5011                | 1.5011                      | 1000               | 3.5325                                                          | 3.5325                                                          | 3.5325                                                            | 2.0314     | 2031.4      |
| 14     | Q3778-01    | SW-2                      | 1.4723                | 1.4723                      | 1000               | 1.5289                                                          | 1.5289                                                          | 1.5289                                                            | 0.0566     | 56.6        |
| 15     | Q3785-04    | WATER-TREATMEN DISCHARGE  | 1.4943                | 1.4943                      | 1500               | 1.4950                                                          | 1.4950                                                          | 1.4950                                                            | 0.0007     | 0.5         |

**TOTAL SUSPENDED SOLIDS - SM2540D**

**SUPERVISOR:** Iwona

**ANALYST:** jignesh

**Date:** 12/04/2025

**Run Number:** LB138118

**BalanceID:** WC SC-5

**OvenID:** WC OVEN-1

**FilterID:** 17416528

**ThermometerID:** WET OVEN#1

**TEMP1 IN:** 104 °C 12/04/2025 10:00 **TEMP1 OUT:** 103 °C 12/04/2025 11:00  
**TEMP2 IN:** 104 °C 12/04/2025 11:30 **TEMP2 OUT:** 103 °C 12/04/2025 12:30  
**TEMP3 IN:** 104 °C 12/04/2025 16:00 **TEMP3 OUT:** 103 °C 12/04/2025 17:30  
**TEMP4 IN:** 104 °C 12/04/2025 18:00 **TEMP4 OUT:** 103 °C 12/04/2025 19:35

| Dish # | Lab ID | Client ID | Empty Dish Weight (g) | Final Empty Dish Weight (g) | Sample Volume (ml) | 1st Empty Dish+Sample weight after 1.5hr drying @103-@105°C (g) | 2nd Empty Dish+Sample weight after 1.5hr drying @103-@105°C (g) | Final Empty Dish+Sample weight after 1.5hr drying @103-@105°C (g) | Weight (g) | Result mg/L |
|--------|--------|-----------|-----------------------|-----------------------------|--------------------|-----------------------------------------------------------------|-----------------------------------------------------------------|-------------------------------------------------------------------|------------|-------------|
|        |        |           |                       |                             |                    |                                                                 |                                                                 |                                                                   |            |             |

A = Sample Volume (ml)  
 B = Final Empty Dish Weight (g)  
 C = Final Empty Dish + Sample weight after 1.5 hr drying @105°C(g)  
 D = Weight (g)

Weight (g) = C - B

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

# WORKLIST(Hardcopy Internal Chain)

UB 138118

WorkList Name : iss q3570      WorkList ID : 193461      Department : Wet-Chemistry      Date : 12-04-2025 08:30:33

| Sample   | Customer Sample             | Matrix | Test | Preservative | Customer | Raw Sample Storage Location | Collect Date | Method   |
|----------|-----------------------------|--------|------|--------------|----------|-----------------------------|--------------|----------|
| Q3760-01 | H 001 Willets Pt Blvd (DEc) | Water  | TSS  | Cool 4 deg C | TULL01   | A11                         | 12/02/2025   | SM2540 D |
| Q3760-02 | H 002 35th Ave (Dec)        | Water  | TSS  | Cool 4 deg C | TULL01   | A11                         | 12/02/2025   | SM2540 D |
| Q3771-02 | B Comp                      | Water  | TSS  | Cool 4 deg C | ARAM01   | A11                         | 12/04/2025   | SM2540 D |
| Q3772-01 | A EFFLUENT                  | Water  | TSS  | Cool 4 deg C | HOLL01   | A11                         | 12/03/2025   | SM2540 D |
| Q3772-04 | AERATION                    | Water  | TSS  | Cool 4 deg C | HOLL01   | A11                         | 12/03/2025   | SM2540 D |
| Q3773-01 | TOWER#1 A, C, D             | Water  | TSS  | Cool 4 deg C | PSEG04   | A11                         | 12/03/2025   | SM2540 D |
| Q3774-01 | E, C DSN002                 | Water  | TSS  | Cool 4 deg C | PSEG04   | A11                         | 12/03/2025   | SM2540 D |
| Q3774-03 | E, C DSN001                 | Water  | TSS  | Cool 4 deg C | PSEG04   | A11                         | 12/03/2025   | SM2540 D |
| Q3774-05 | E, C DSN003                 | Water  | TSS  | Cool 4 deg C | PSEG04   | A11                         | 12/03/2025   | SM2540 D |
| Q3777-01 | E SW-1                      | Water  | TSS  | Cool 4 deg C | ATGG01   | A11                         | 12/02/2025   | SM2540 D |
| Q3778-01 | E SW-2                      | Water  | TSS  | Cool 4 deg C | ATGG01   | A11                         | 12/02/2025   | SM2540 D |
| Q3785-04 | P, E WATER-TREATMEN DISCHAR | Water  | TSS  | Cool 4 deg C | VERI01   | A11                         | 12/04/2025   | SM2540 D |

58  
Date/Time 12/04/25 13:45  
Raw Sample Received by: J.P. (0009)  
Raw Sample Relinquished by: R3 CEA-Val

Date/Time 12/04/25 18:30  
Raw Sample Received by: R3 CEA-Val  
Raw Sample Relinquished by: J.P. (0009)



Clear table

| Instrument ID: IC-2 Analyst : IZ Method: 300.0 / 9056A |                      |                       |                        |                        |                        |                         |                        |            |                 |                                    |
|--------------------------------------------------------|----------------------|-----------------------|------------------------|------------------------|------------------------|-------------------------|------------------------|------------|-----------------|------------------------------------|
| ident                                                  | concentra<br>tion F- | concentratio<br>n CL- | concentratio<br>on NO2 | concentratio<br>on BR- | concentratio<br>on NO3 | concentratio<br>on HPO4 | concentratio<br>on SO4 | file name  | date time       | Initial<br>wt/<br>Final<br>Analyst |
| STD1                                                   | 0.0000               | 0.0000                | 0.0000                 | 0.0000                 | 0.0000                 | 0.0000                  | 0.0000                 | IC1-120125 | 12/1/2025 11:48 | 10 RM/IZ                           |
| STD2                                                   | 0.4120               | 0.6350                | 0.6390                 | 2.1030                 | 0.5360                 | 0.9130                  | 3.2650                 | IC1-120125 | 12/1/2025 12:09 | 10 RM/IZ                           |
| STD3                                                   | 0.7980               | 1.2010                | 1.1990                 | 4.0080                 | 0.9990                 | 2.0970                  | 5.9810                 | IC1-120125 | 12/1/2025 12:52 | 10 RM/IZ                           |
| STD4                                                   | 0.9750               | 1.4810                | 1.4790                 | 4.9370                 | 1.2340                 | 2.2950                  | 7.4370                 | IC1-120125 | 12/1/2025 13:13 | 10 RM/IZ                           |
| STD5                                                   | 2.0150               | 2.9820                | 2.9830                 | 9.9520                 | 2.4810                 | 5.0960                  | 14.8450                | IC1-120125 | 12/1/2025 13:35 | 10 RM/IZ                           |
| STD6                                                   | 4.0090               | 5.9610                | 5.9580                 | 19.8850                | 4.9590                 | 10.5230                 | 29.5480                | IC1-120125 | 12/1/2025 13:57 | 10 RM/IZ                           |
| STD7                                                   | 4.9910               | 7.5390                | 7.5420                 | 25.1140                | 6.2910                 | 12.0750                 | 37.4240                | IC1-120125 | 12/1/2025 14:18 | 10 RM/IZ                           |

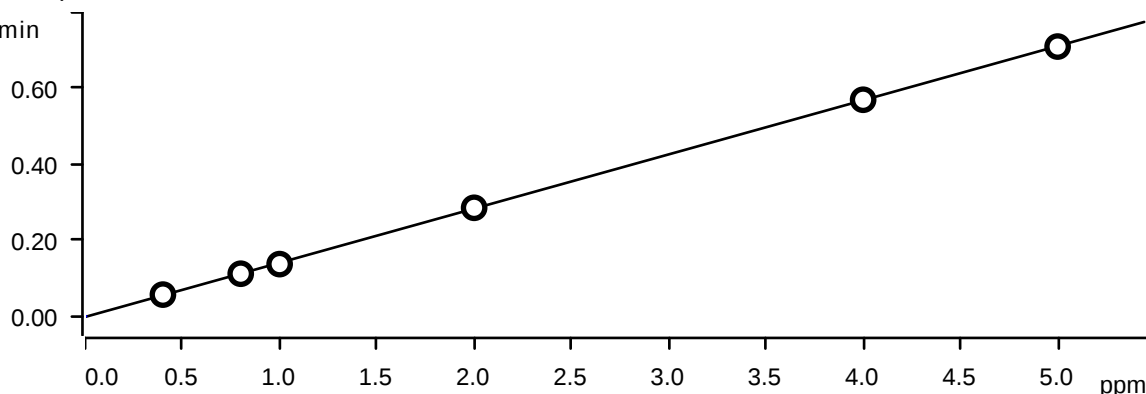
| ident | True<br>Value F- | True Value<br>CL- | True Value<br>NO2 | True Value<br>BR- | True Value<br>NO3 | True Value<br>HPO4 | True Value<br>SO4 |
|-------|------------------|-------------------|-------------------|-------------------|-------------------|--------------------|-------------------|
| 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<br>Error F- | Relative<br>Error CL- | Relative<br>Error NO2 | Relative<br>Error BR- | Relative<br>Error NO3 | Relative<br>Error HPO4 | Relative<br>Error SO4 |
|-------|----------------------|-----------------------|-----------------------|-----------------------|-----------------------|------------------------|-----------------------|
| STD1  |                      |                       |                       |                       |                       |                        |                       |
| STD2  | 3.0000               | 5.8333                | 6.5000                | 5.1500                | 7.2000                | -8.7000                | 8.8333                |
| STD3  | -0.2500              | 0.0833                | -0.0833               | 0.2000                | -0.1000               | 4.8500                 | -0.3167               |
| STD4  | -2.5000              | -1.2667               | -1.4000               | -1.2600               | -1.2800               | -8.2000                | -0.8400               |
| STD5  | 0.7500               | -0.6000               | -0.5667               | -0.4800               | -0.7600               | 1.9200                 | -1.0333               |
| STD6  | 0.2250               | -0.6500               | -0.7000               | -0.5750               | -0.8200               | 5.2300                 | -1.5067               |
| STD7  | -0.1800              | 0.5200                | 0.5600                | 0.4560                | 0.6560                | -3.4000                | 1.1459                |

# Fluoride (Anions)

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



Function: . . . . .  $A = -1.71119\text{E-}3 + 0.0142641 \times Q$

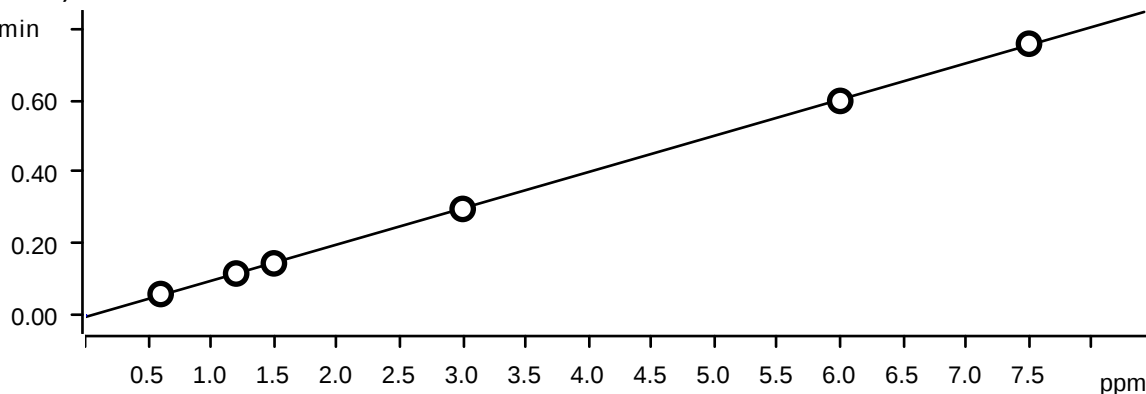
Relative standard deviation . . . . . 0.777267 %

Correlation coefficient . . . . . 0.999967

| 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  | 2025-12-01 11:48:15 UTC-5 | used |
| Standard 2  | 1     | 0.400 | 10.0   | 1.0      | 1.0           | 0.057 | STD2  | 2025-12-01 12:09:37 UTC-5 | used |
| Standard 3  | 1     | 0.800 | 10.0   | 1.0      | 1.0           | 0.112 | STD3  | 2025-12-01 12:52:25 UTC-5 | used |
| Standard 4  | 1     | 1.000 | 10.0   | 1.0      | 1.0           | 0.137 | STD4  | 2025-12-01 13:13:50 UTC-5 | used |
| Standard 5  | 1     | 2.000 | 10.0   | 1.0      | 1.0           | 0.286 | STD5  | 2025-12-01 13:35:52 UTC-5 | used |
| Standard 6  | 1     | 4.000 | 10.0   | 1.0      | 1.0           | 0.570 | STD6  | 2025-12-01 13:57:13 UTC-5 | used |
| Standard 7  | 1     | 5.000 | 10.0   | 1.0      | 1.0           | 0.710 | STD7  | 2025-12-01 14:18:41 UTC-5 | used |

# Chloride (Anions)

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

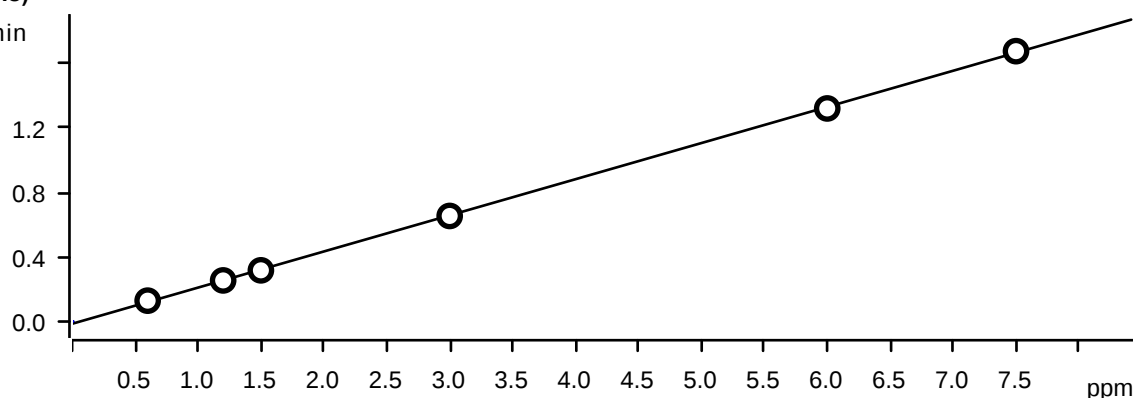


Function: . . . . .  $A = -4.50795\text{E-}3 + 0.0101091 \times Q$

Relative standard deviation . . . . . 1.077238 %

Correlation coefficient . . . . . 0.999938

| 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  | 2025-12-01 11:48:15 UTC-5 | used |
| Standard 2  | 1     | 0.600 | 10.0   | 1.0      | 1.0           | 0.060 | STD2  | 2025-12-01 12:09:37 UTC-5 | used |
| Standard 3  | 1     | 1.200 | 10.0   | 1.0      | 1.0           | 0.117 | STD3  | 2025-12-01 12:52:25 UTC-5 | used |
| Standard 4  | 1     | 1.500 | 10.0   | 1.0      | 1.0           | 0.145 | STD4  | 2025-12-01 13:13:50 UTC-5 | used |
| Standard 5  | 1     | 3.000 | 10.0   | 1.0      | 1.0           | 0.297 | STD5  | 2025-12-01 13:35:52 UTC-5 | used |
| Standard 6  | 1     | 6.000 | 10.0   | 1.0      | 1.0           | 0.598 | STD6  | 2025-12-01 13:57:13 UTC-5 | used |
| Standard 7  | 1     | 7.500 | 10.0   | 1.0      | 1.0           | 0.758 | STD7  | 2025-12-01 14:18:41 UTC-5 | used |

**Nitrite (Anions)** $(\mu\text{S}/\text{cm}) \times \text{min}$ Function: . . . . .  $A = -0.0147505 + 0.0223943 \times Q$ 

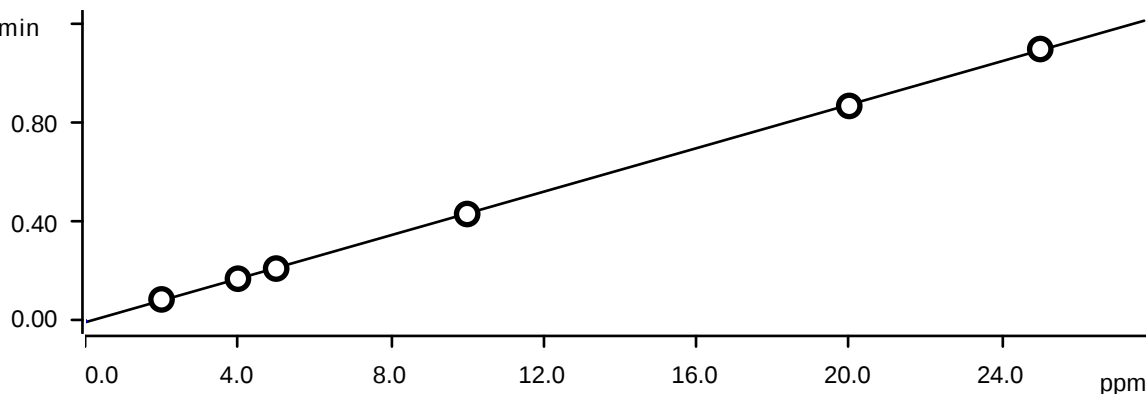
Relative standard deviation . . . . . 1.183356 %

Correlation coefficient . . . . . 0.999927

| 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  | 2025-12-01 11:48:15 UTC-5 | used |
| Standard 2  | 1     | 0.600 | 10.0   | 1.0      | 1.0           | 0.128 | STD2  | 2025-12-01 12:09:37 UTC-5 | used |
| Standard 3  | 1     | 1.200 | 10.0   | 1.0      | 1.0           | 0.254 | STD3  | 2025-12-01 12:52:25 UTC-5 | used |
| Standard 4  | 1     | 1.500 | 10.0   | 1.0      | 1.0           | 0.316 | STD4  | 2025-12-01 13:13:50 UTC-5 | used |
| Standard 5  | 1     | 3.000 | 10.0   | 1.0      | 1.0           | 0.653 | STD5  | 2025-12-01 13:35:52 UTC-5 | used |
| Standard 6  | 1     | 6.000 | 10.0   | 1.0      | 1.0           | 1.319 | STD6  | 2025-12-01 13:57:13 UTC-5 | used |
| Standard 7  | 1     | 7.500 | 10.0   | 1.0      | 1.0           | 1.674 | STD7  | 2025-12-01 14:18:41 UTC-5 | used |

# Bromide (Anions)

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



Function:  $A = -5.85906E-3 + 4.38185E-3 \times Q$

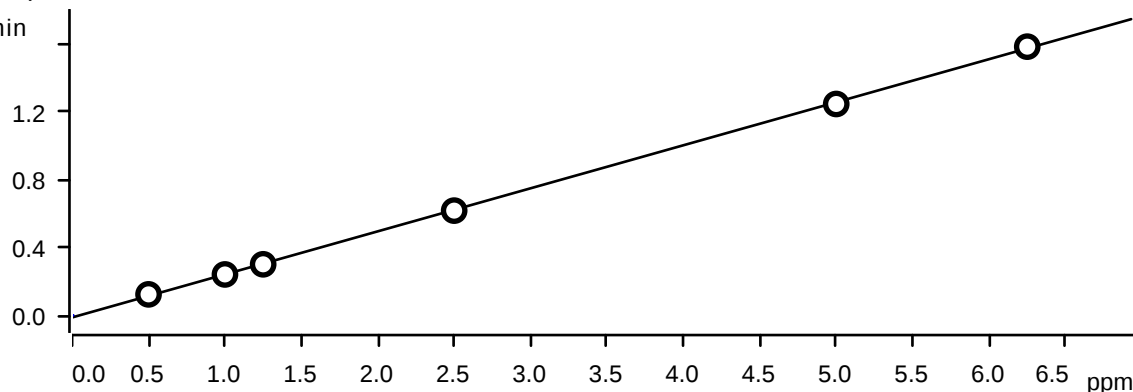
Relative standard deviation: 0.955560 %

Correlation coefficient: 0.999951

| 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  | 2025-12-01 11:48:15 UTC-5 | used |
| Standard 2  | 1     | 2.000  | 10.0   | 1.0      | 1.0           | 0.086 | STD2  | 2025-12-01 12:09:37 UTC-5 | used |
| Standard 3  | 1     | 4.000  | 10.0   | 1.0      | 1.0           | 0.170 | STD3  | 2025-12-01 12:52:25 UTC-5 | used |
| Standard 4  | 1     | 5.000  | 10.0   | 1.0      | 1.0           | 0.210 | STD4  | 2025-12-01 13:13:50 UTC-5 | used |
| Standard 5  | 1     | 10.000 | 10.0   | 1.0      | 1.0           | 0.430 | STD5  | 2025-12-01 13:35:52 UTC-5 | used |
| Standard 6  | 1     | 20.000 | 10.0   | 1.0      | 1.0           | 0.865 | STD6  | 2025-12-01 13:57:13 UTC-5 | used |
| Standard 7  | 1     | 25.000 | 10.0   | 1.0      | 1.0           | 1.095 | STD7  | 2025-12-01 14:18:41 UTC-5 | used |

# Nitrate (Anions)

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

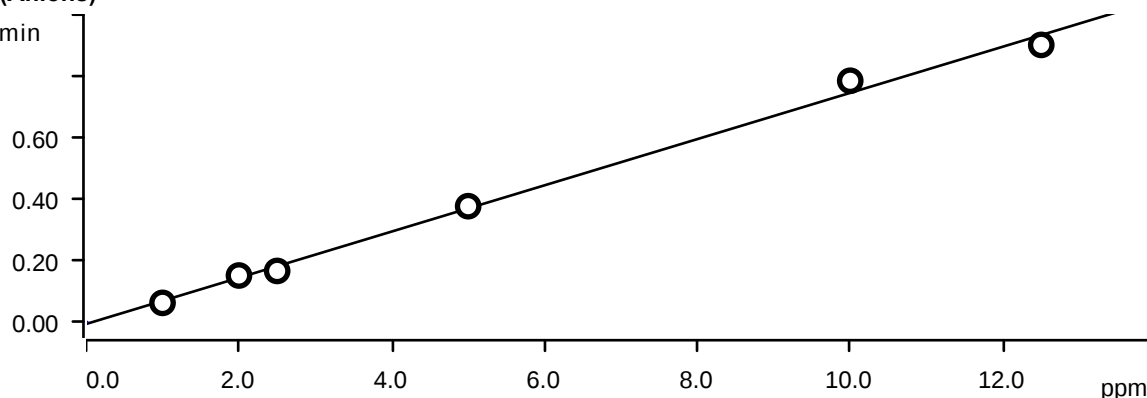


Function:  $A = -0.0119899 + 0.0253343 \times Q$

Relative standard deviation: 1.343370 %

Correlation coefficient . . . . . 0.999905

| 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  | 2025-12-01 11:48:15 UTC-5 | used |
| Standard 2  | 1     | 0.500 | 10.0   | 1.0      | 1.0           | 0.124 | STD2  | 2025-12-01 12:09:37 UTC-5 | used |
| Standard 3  | 1     | 1.000 | 10.0   | 1.0      | 1.0           | 0.241 | STD3  | 2025-12-01 12:52:25 UTC-5 | used |
| Standard 4  | 1     | 1.250 | 10.0   | 1.0      | 1.0           | 0.301 | STD4  | 2025-12-01 13:13:50 UTC-5 | used |
| Standard 5  | 1     | 2.500 | 10.0   | 1.0      | 1.0           | 0.617 | STD5  | 2025-12-01 13:35:52 UTC-5 | used |
| Standard 6  | 1     | 5.000 | 10.0   | 1.0      | 1.0           | 1.244 | STD6  | 2025-12-01 13:57:13 UTC-5 | used |
| Standard 7  | 1     | 6.250 | 10.0   | 1.0      | 1.0           | 1.582 | STD7  | 2025-12-01 14:18:41 UTC-5 | used |

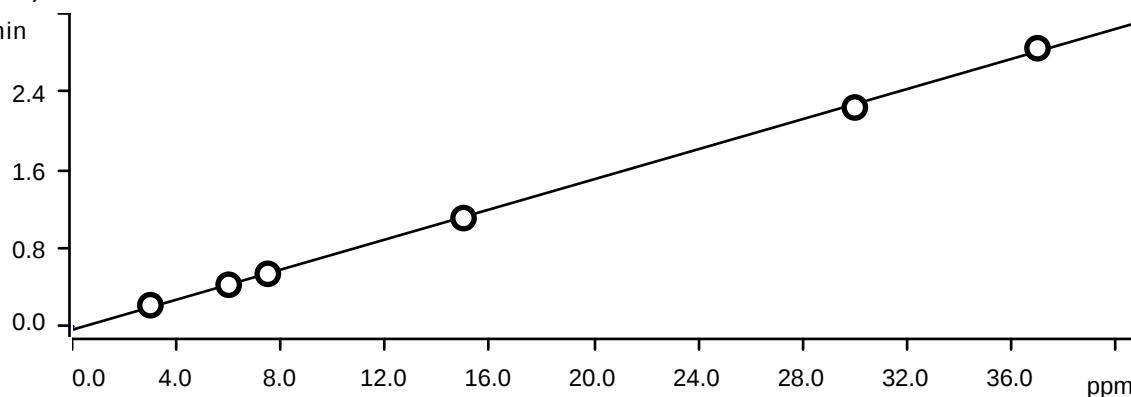
**Phosphate (Anions)** $(\mu\text{S}/\text{cm}) \times \text{min}$ Function: . . . . .  $A = -5.90721E-3 + 7.51764E-3 \times Q$ 

Relative standard deviation . . . . . 6.666731 %

Correlation coefficient . . . . . 0.997655

| 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  | 2025-12-01 11:48:15 UTC-5 | used |
| Standard 2  | 1     | 1.000  | 10.0   | 1.0      | 1.0           | 0.063 | STD2  | 2025-12-01 12:09:37 UTC-5 | used |
| Standard 3  | 1     | 2.000  | 10.0   | 1.0      | 1.0           | 0.152 | STD3  | 2025-12-01 12:52:25 UTC-5 | used |
| Standard 4  | 1     | 2.500  | 10.0   | 1.0      | 1.0           | 0.167 | STD4  | 2025-12-01 13:13:50 UTC-5 | used |
| Standard 5  | 1     | 5.000  | 10.0   | 1.0      | 1.0           | 0.377 | STD5  | 2025-12-01 13:35:52 UTC-5 | used |
| Standard 6  | 1     | 10.000 | 10.0   | 1.0      | 1.0           | 0.785 | STD6  | 2025-12-01 13:57:13 UTC-5 | used |
| Standard 7  | 1     | 12.500 | 10.0   | 1.0      | 1.0           | 0.902 | STD7  | 2025-12-01 14:18:41 UTC-5 | used |

## Sulfate (Anions)

 $(\mu\text{S}/\text{cm}) \times \text{min}$ Function: . . . . .  $A = -0.0335409 + 7.69031E-3 \times Q$ 

Relative standard deviation . . . . . 2.174138 %

Correlation coefficient . . . . . 0.999753

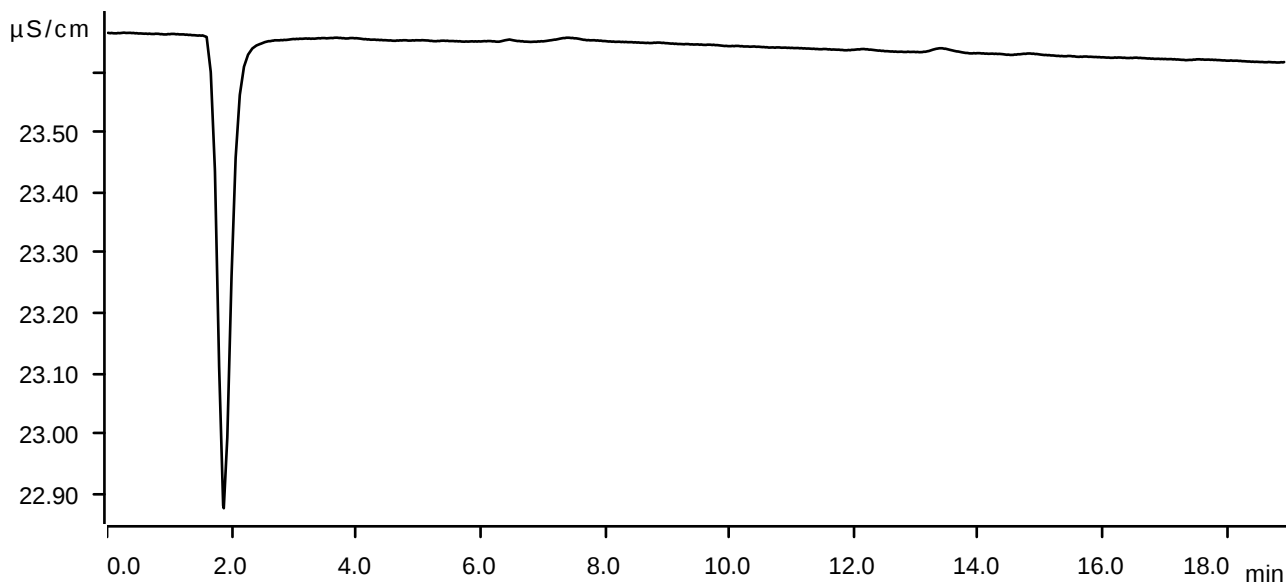
| Sample type | Index | Conc.  | Volume | Dilution | Sample amount | Area  | Ident | Date                      | Used |
|-------------|-------|--------|--------|----------|---------------|-------|-------|---------------------------|------|
| Standard 1  | 1     | 0.000  | 10.0   | 1.0      | 1.0           | n. d. | STD1  | 2025-12-01 11:48:15 UTC-5 | used |
| Standard 2  | 1     | 3.000  | 10.0   | 1.0      | 1.0           | 0.218 | STD2  | 2025-12-01 12:09:37 UTC-5 | used |
| Standard 3  | 1     | 6.000  | 10.0   | 1.0      | 1.0           | 0.426 | STD3  | 2025-12-01 12:52:25 UTC-5 | used |
| Standard 4  | 1     | 7.500  | 10.0   | 1.0      | 1.0           | 0.538 | STD4  | 2025-12-01 13:13:50 UTC-5 | used |
| Standard 5  | 1     | 15.000 | 10.0   | 1.0      | 1.0           | 1.108 | STD5  | 2025-12-01 13:35:52 UTC-5 | used |
| Standard 6  | 1     | 30.000 | 10.0   | 1.0      | 1.0           | 2.239 | STD6  | 2025-12-01 13:57:13 UTC-5 | used |
| Standard 7  | 1     | 37.000 | 10.0   | 1.0      | 1.0           | 2.844 | STD7  | 2025-12-01 14:18:41 UTC-5 | used |

**Sample data**

Ident . . . . . STD1  
Sample type . . . . . Standard 1  
Determination start . . . . . 2025-12-01 11:48:15 UTC-5  
Method . . . . . IC1-120125  
Operator . . . . .

**Anions**

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

**Anions**

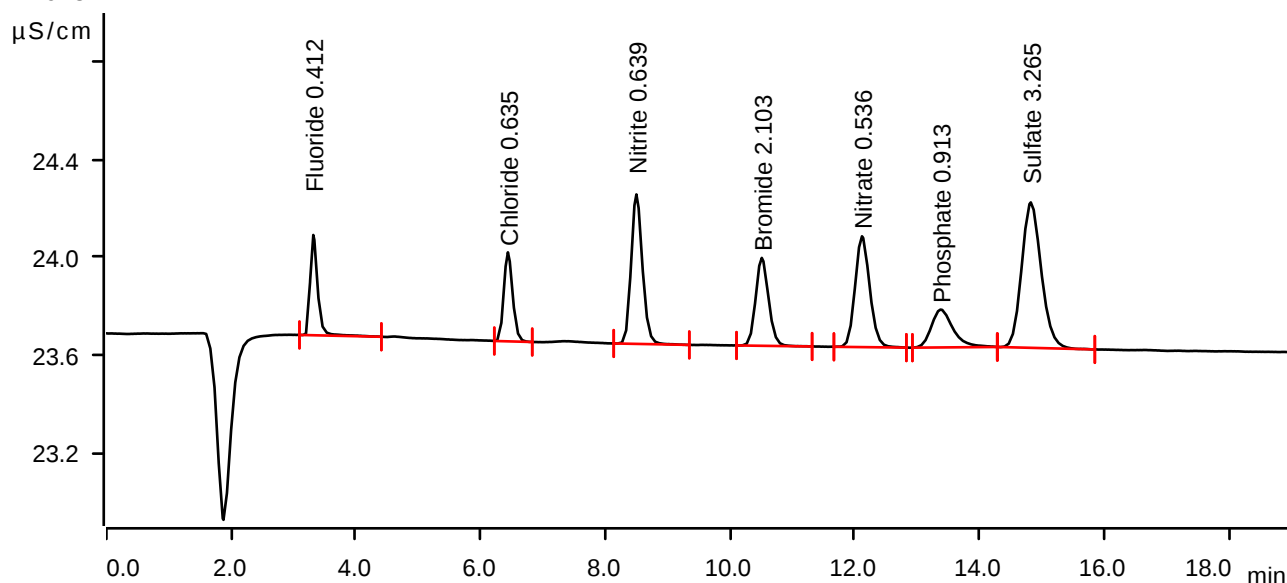
## Sample data

Ident . . . . . STD2  
Sample type . . . . . Standard 2  
Determination start . . . . . 2025-12-01 12:09:37 UTC-5  
Method . . . . . IC1-120125  
Operator . . . . .

## Anions

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

## Anions



| Peak number | Retention time<br>min | Area<br>(µS/cm) x min | Height<br>µS/cm | Concentration<br>ppm | Component name |
|-------------|-----------------------|-----------------------|-----------------|----------------------|----------------|
| 1           | 3.318                 | 0.0571                | 0.411           | 0.412                | Fluoride       |
| 2           | 6.438                 | 0.0597                | 0.365           | 0.635                | Chloride       |
| 3           | 8.498                 | 0.1284                | 0.613           | 0.639                | Nitrite        |
| 4           | 10.508                | 0.0863                | 0.360           | 2.103                | Bromide        |
| 5           | 12.115                | 0.1238                | 0.454           | 0.536                | Nitrate        |
| 6           | 13.373                | 0.0628                | 0.155           | 0.913                | Phosphate      |
| 7           | 14.822                | 0.2176                | 0.596           | 3.265                | Sulfate        |

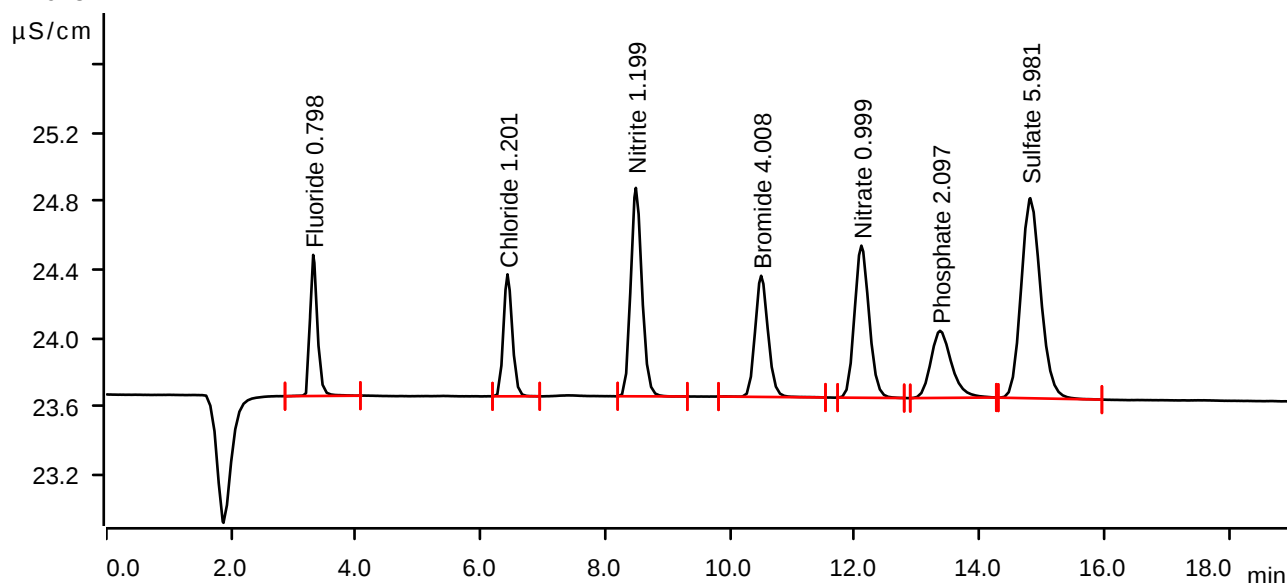
## Sample data

Ident . . . . . STD3  
Sample type . . . . . Standard 3  
Determination start . . . . . 2025-12-01 12:52:25 UTC-5  
Method . . . . . IC1-120125  
Operator . . . . .

## Anions

Data source . . . . . Conductivity detector 1 (Eco IC 1)  
Channel . . . . . Conductivity  
Recording time . . . . . 19.0 min  
Integration . . . . . Automatically  
Column type . . . . . Metrosep A Supp 19 - 150/4.0  
Eluent composition . . . . . not defined  
Flow . . . . . 0.700 mL/min  
Maximum flow monitored . . . . . yes  
Pressure . . . . . 11.94 MPa  
Maximum pressure monitored . . . . . yes  
Temperature . . . . . ---- °C

## Anions



| Peak number | Retention time<br>min | Area<br>(µS/cm) x min | Height<br>µS/cm | Concentration<br>ppm | Component name |
|-------------|-----------------------|-----------------------|-----------------|----------------------|----------------|
| 1           | 3.317                 | 0.1121                | 0.826           | 0.798                | Fluoride       |
| 2           | 6.432                 | 0.1169                | 0.714           | 1.201                | Chloride       |
| 3           | 8.490                 | 0.2538                | 1.221           | 1.199                | Nitrite        |
| 4           | 10.498                | 0.1698                | 0.710           | 4.008                | Bromide        |
| 5           | 12.105                | 0.2411                | 0.891           | 0.999                | Nitrate        |
| 6           | 13.367                | 0.1518                | 0.393           | 2.097                | Phosphate      |
| 7           | 14.813                | 0.4264                | 1.172           | 5.981                | Sulfate        |

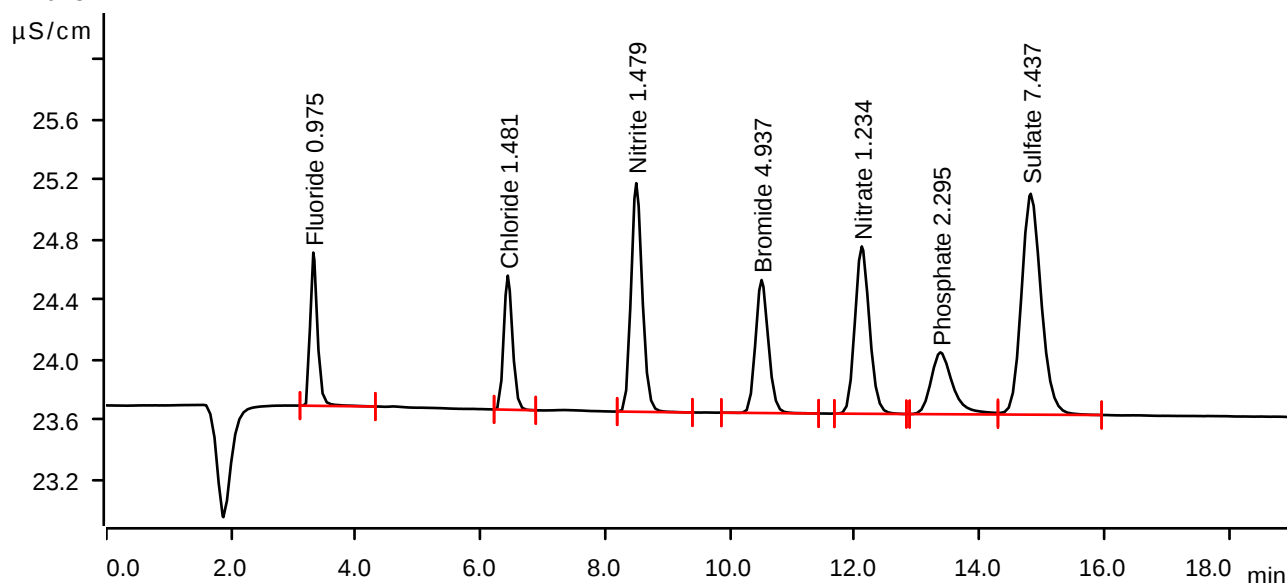
## Sample data

Ident . . . . . STD4  
Sample type . . . . . Standard 4  
Determination start . . . . . 2025-12-01 13:13:50 UTC-5  
Method . . . . . IC1-120125  
Operator . . . . .

## Anions

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

## Anions



| Peak number | Retention time<br>min | Area<br>(µS/cm) x min | Height<br>µS/cm | Concentration<br>ppm | Component name |
|-------------|-----------------------|-----------------------|-----------------|----------------------|----------------|
| 1           | 3.318                 | 0.1374                | 1.017           | 0.975                | Fluoride       |
| 2           | 6.437                 | 0.1452                | 0.890           | 1.481                | Chloride       |
| 3           | 8.497                 | 0.3164                | 1.518           | 1.479                | Nitrite        |
| 4           | 10.505                | 0.2105                | 0.883           | 4.937                | Bromide        |
| 5           | 12.112                | 0.3007                | 1.111           | 1.234                | Nitrate        |
| 6           | 13.372                | 0.1666                | 0.410           | 2.295                | Phosphate      |
| 7           | 14.820                | 0.5384                | 1.466           | 7.437                | Sulfate        |

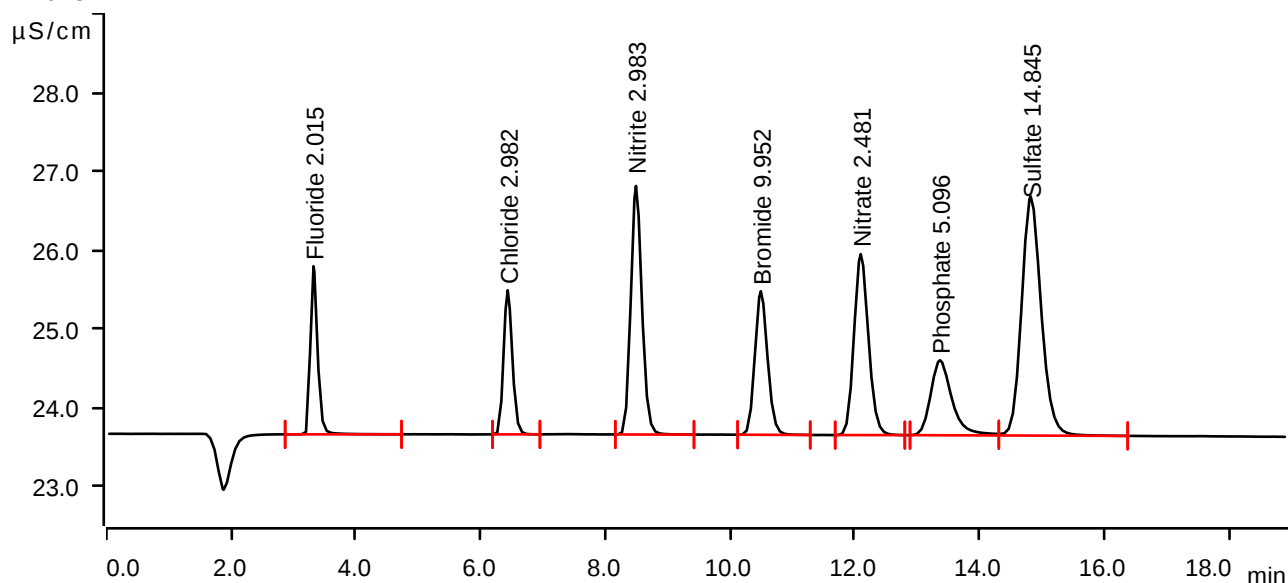
## Sample data

Ident . . . . . STD5  
Sample type . . . . . Standard 5  
Determination start . . . . . 2025-12-01 13:35:52 UTC-5  
Method . . . . . IC1-120125  
Operator . . . . .

## Anions

Data source . . . . . Conductivity detector 1 (Eco IC 1)  
Channel . . . . . Conductivity  
Recording time . . . . . 19.0 min  
Integration . . . . . Automatically  
Column type . . . . . Metrosep A Supp 19 - 150/4.0  
Eluent composition . . . . . not defined  
Flow . . . . . 0.700 mL/min  
Maximum flow monitored . . . . . yes  
Pressure . . . . . 11.94 MPa  
Maximum pressure monitored . . . . . yes  
Temperature . . . . . ---- °C

## Anions



| Peak number | Retention time<br>min | Area<br>(µS/cm) x min | Height<br>µS/cm | Concentration<br>ppm | Component name |
|-------------|-----------------------|-----------------------|-----------------|----------------------|----------------|
| 1           | 3.322                 | 0.2857                | 2.133           | 2.015                | Fluoride       |
| 2           | 6.435                 | 0.2970                | 1.828           | 2.982                | Chloride       |
| 3           | 8.492                 | 0.6533                | 3.155           | 2.983                | Nitrite        |
| 4           | 10.493                | 0.4302                | 1.822           | 9.952                | Bromide        |
| 5           | 12.095                | 0.6166                | 2.297           | 2.481                | Nitrate        |
| 6           | 13.365                | 0.3772                | 0.952           | 5.096                | Phosphate      |
| 7           | 14.820                | 1.1081                | 3.035           | 14.845               | Sulfate        |

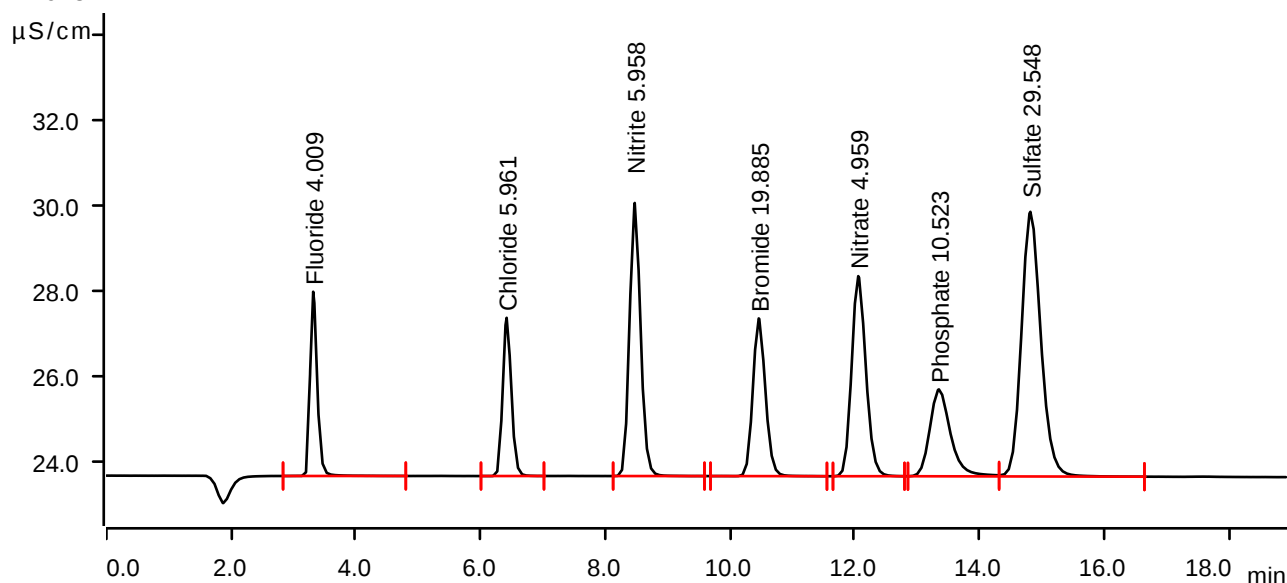
## Sample data

Ident . . . . . STD6  
Sample type . . . . . Standard 6  
Determination start . . . . . 2025-12-01 13:57:13 UTC-5  
Method . . . . . IC1-120125  
Operator . . . . .

## Anions

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

## Anions



| Peak number | Retention time<br>min | Area<br>(µS/cm) x min | Height<br>µS/cm | Concentration<br>ppm | Component name |
|-------------|-----------------------|-----------------------|-----------------|----------------------|----------------|
| 1           | 3.317                 | 0.5701                | 4.316           | 4.009                | Fluoride       |
| 2           | 6.418                 | 0.5981                | 3.707           | 5.961                | Chloride       |
| 3           | 8.472                 | 1.3194                | 6.398           | 5.958                | Nitrite        |
| 4           | 10.460                | 0.8655                | 3.695           | 19.885               | Bromide        |
| 5           | 12.055                | 1.2443                | 4.688           | 4.959                | Nitrate        |
| 6           | 13.348                | 0.7852                | 2.036           | 10.523               | Phosphate      |
| 7           | 14.815                | 2.2388                | 6.200           | 29.548               | Sulfate        |

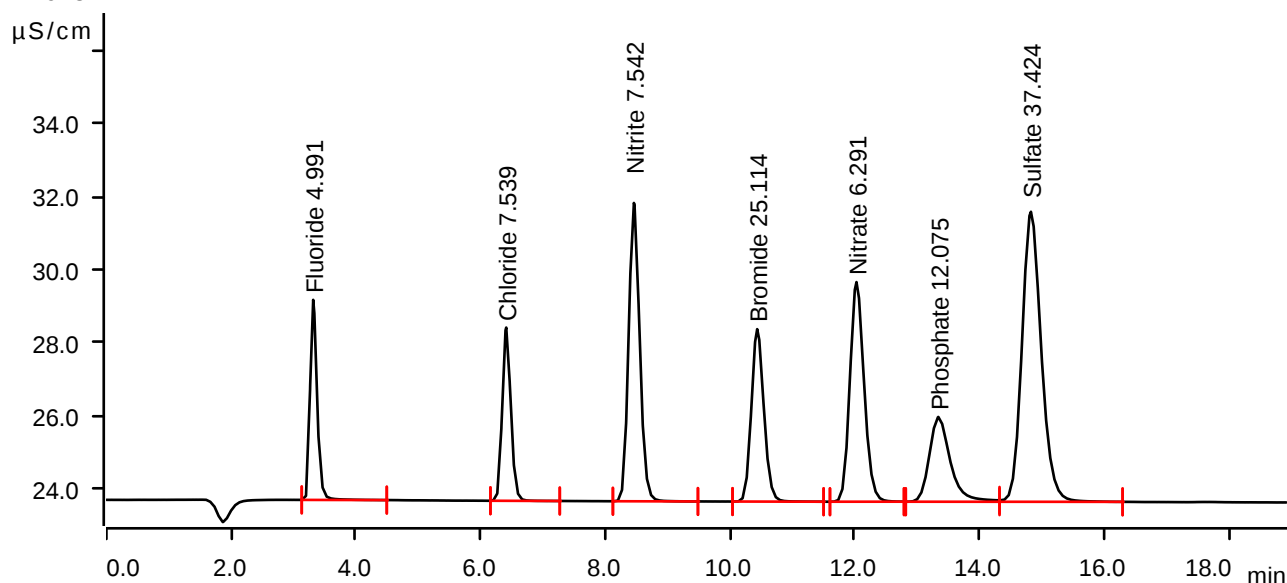
## Sample data

Ident . . . . . STD7  
Sample type . . . . . Standard 7  
Determination start . . . . . 2025-12-01 14:18:41 UTC-5  
Method . . . . . IC1-120125  
Operator . . . . .

## Anions

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

## Anions



| Peak number | Retention time<br>min | Area<br>(µS/cm) x min | Height<br>µS/cm | Concentration<br>ppm | Component name |
|-------------|-----------------------|-----------------------|-----------------|----------------------|----------------|
| 1           | 3.317                 | 0.7102                | 5.467           | 4.991                | Fluoride       |
| 2           | 6.412                 | 0.7576                | 4.735           | 7.539                | Chloride       |
| 3           | 8.458                 | 1.6742                | 8.154           | 7.542                | Nitrite        |
| 4           | 10.435                | 1.0946                | 4.713           | 25.114               | Bromide        |
| 5           | 12.027                | 1.5818                | 6.003           | 6.291                | Nitrate        |
| 6           | 13.340                | 0.9019                | 2.316           | 12.075               | Phosphate      |
| 7           | 14.823                | 2.8445                | 7.927           | 37.424               | Sulfate        |

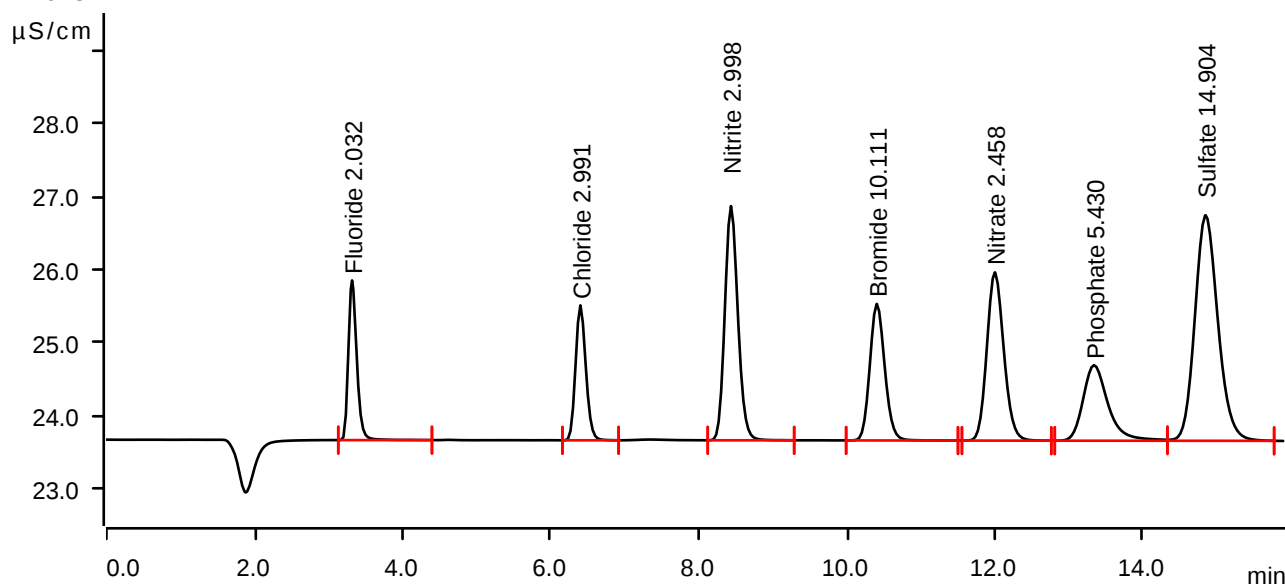
## Sample data

Ident . . . . . ICV  
Sample type . . . . . Check standard 1  
Determination start . . . . . 2025-12-01 14:40:08 UTC-5  
Method . . . . . IC1-120125  
Operator . . . . .

## Anions

Data source . . . . . Conductivity detector 1 (Eco IC 1)  
Channel . . . . . Conductivity  
Recording time . . . . . 15.9 min  
Integration . . . . . Automatically  
Column type . . . . . Metrosep A Supp 19 - 150/4.0  
Eluent composition . . . . . not defined  
Flow . . . . . 0.700 mL/min  
Maximum flow monitored . . . . . yes  
Pressure . . . . . 11.82 MPa  
Maximum pressure monitored . . . . . yes  
Temperature . . . . . ---- °C

## Anions



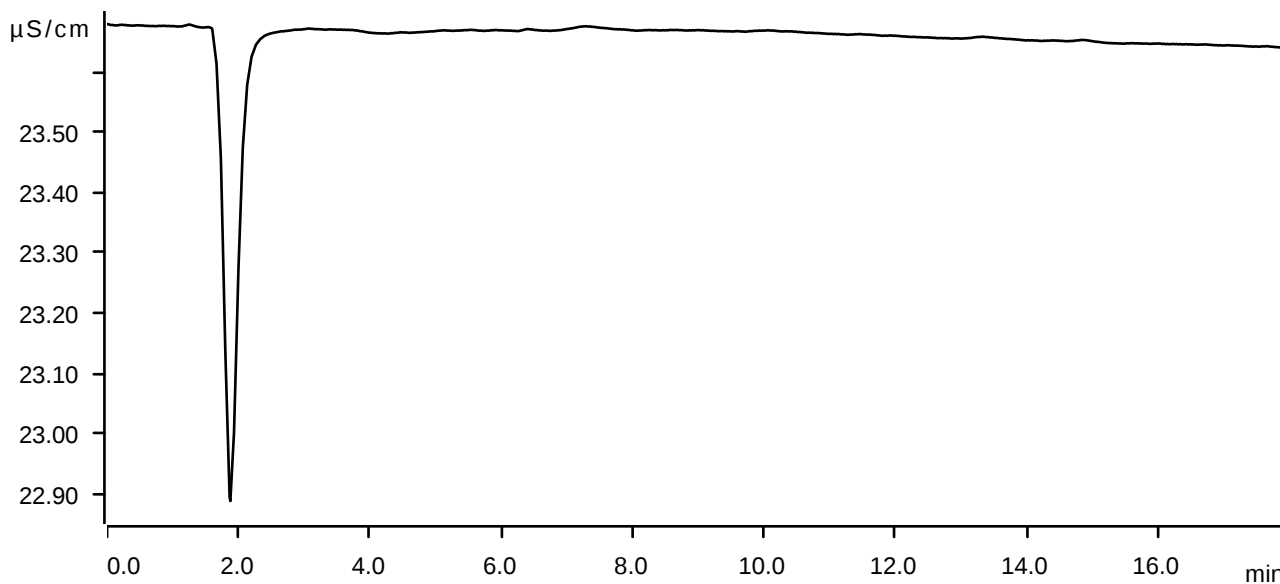
| Peak number | Retention time<br>min | Area<br>(µS/cm) x min | Height<br>µS/cm | Concentration<br>ppm | Component name |
|-------------|-----------------------|-----------------------|-----------------|----------------------|----------------|
| 1           | 3.318                 | 0.2884                | 2.182           | 2.032                | Fluoride       |
| 2           | 6.400                 | 0.2984                | 1.844           | 2.991                | Chloride       |
| 3           | 8.433                 | 0.6564                | 3.200           | 2.998                | Nitrite        |
| 4           | 10.403                | 0.4372                | 1.866           | 10.111               | Bromide        |
| 5           | 11.995                | 0.6105                | 2.299           | 2.458                | Nitrate        |
| 6           | 13.335                | 0.4042                | 1.033           | 5.430                | Phosphate      |
| 7           | 14.842                | 1.1126                | 3.083           | 14.904               | Sulfate        |

**Sample data**

Ident . . . . . ICB  
Sample type . . . . . Sample  
Determination start . . . . . 2025-12-01 14:58:59 UTC-5  
Method . . . . . IC1-120125  
Operator . . . . .

**Anions**

Data source . . . . . Conductivity detector 1 (Eco IC 1)  
Channel . . . . . Conductivity  
Recording time . . . . . 18.1 min  
Integration . . . . . Automatically  
Column type . . . . . Metrosep A Supp 19 - 150/4.0  
Eluent composition . . . . . not defined  
Flow . . . . . 0.700 mL/min  
Maximum flow monitored . . . . . yes  
Pressure . . . . . 11.60 MPa  
Maximum pressure monitored . . . . . yes  
Temperature . . . . . ---- °C

**Anions**

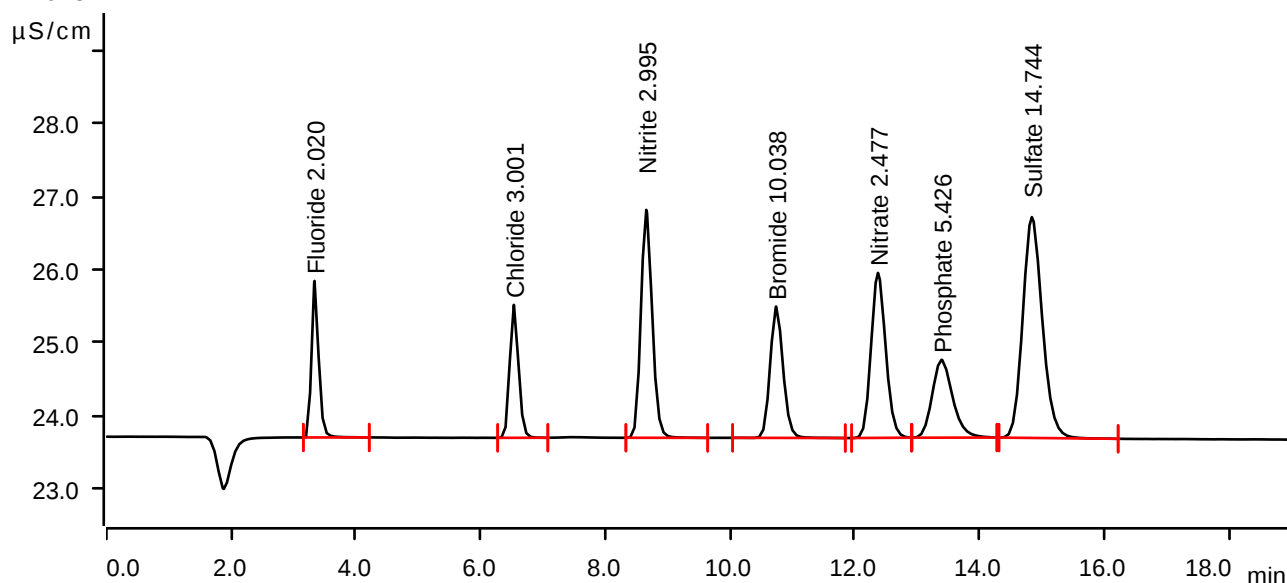
## Sample data

Ident . . . . . CCV  
Sample type . . . . . Check standard 1  
Determination start . . . . . 2025-12-04 09:17:10 UTC-5  
Method . . . . . IC1-120125  
Operator . . . . .

## Anions

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

## Anions



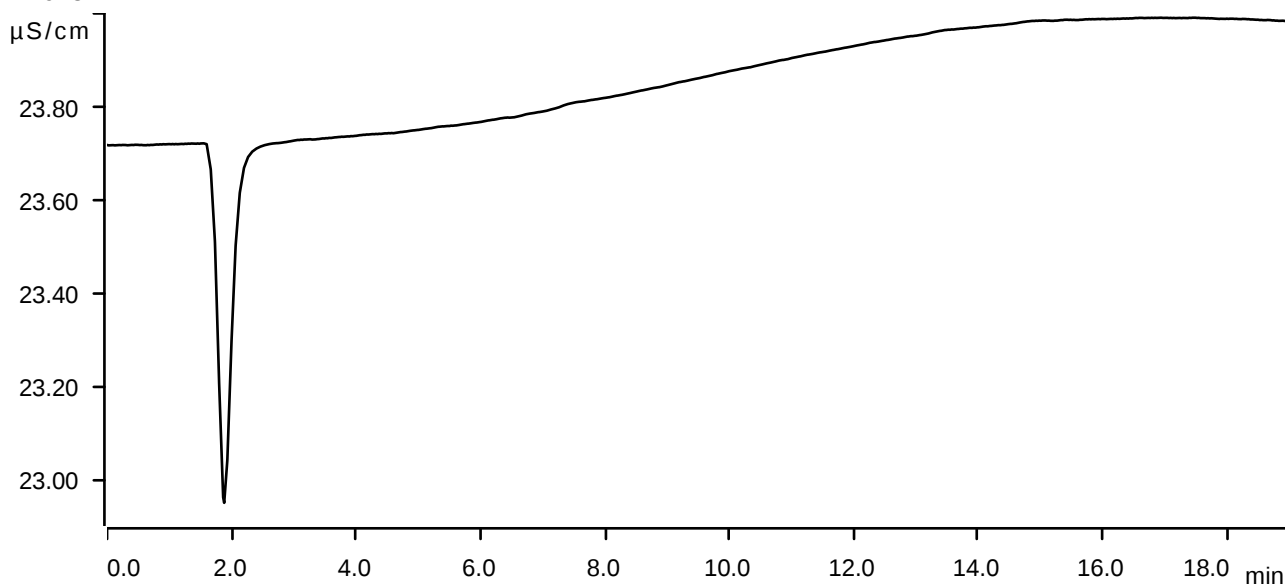
| Peak number | Retention time<br>min | Area<br>(µS/cm) x min | Height<br>µS/cm | Concentration<br>ppm | Component name |
|-------------|-----------------------|-----------------------|-----------------|----------------------|----------------|
| 1           | 3.338                 | 0.2866                | 2.138           | 2.020                | Fluoride       |
| 2           | 6.533                 | 0.2994                | 1.817           | 3.001                | Chloride       |
| 3           | 8.657                 | 0.6558                | 3.115           | 2.995                | Nitrite        |
| 4           | 10.740                | 0.4340                | 1.795           | 10.038               | Bromide        |
| 5           | 12.372                | 0.6154                | 2.255           | 2.477                | Nitrate        |
| 6           | 13.390                | 0.4039                | 1.065           | 5.426                | Phosphate      |
| 7           | 14.838                | 1.1003                | 3.018           | 14.744               | Sulfate        |

**Sample data**

Ident . . . . . CCB  
Sample type . . . . . Sample  
Determination start . . . . . 2025-12-04 09:38:40 UTC-5  
Method . . . . . IC1-120125  
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

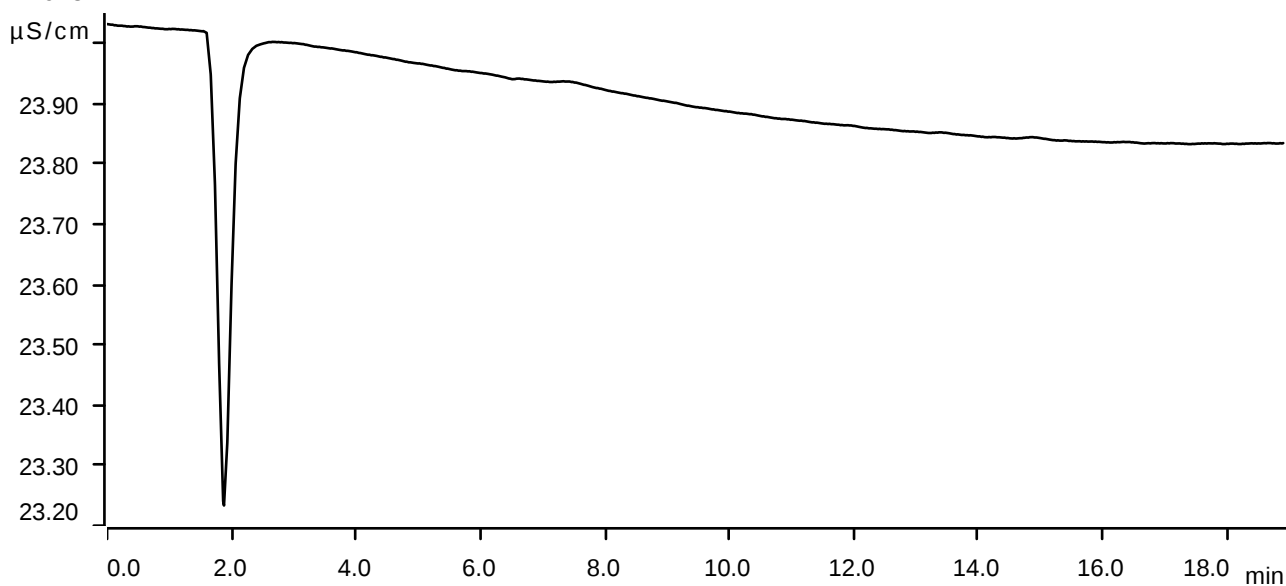
**Anions**

**Sample data**

Ident . . . . . LB138120BLW  
Sample type . . . . . Sample  
Determination start . . . . . 2025-12-04 10:00:11 UTC-5  
Method . . . . . IC1-120125  
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**

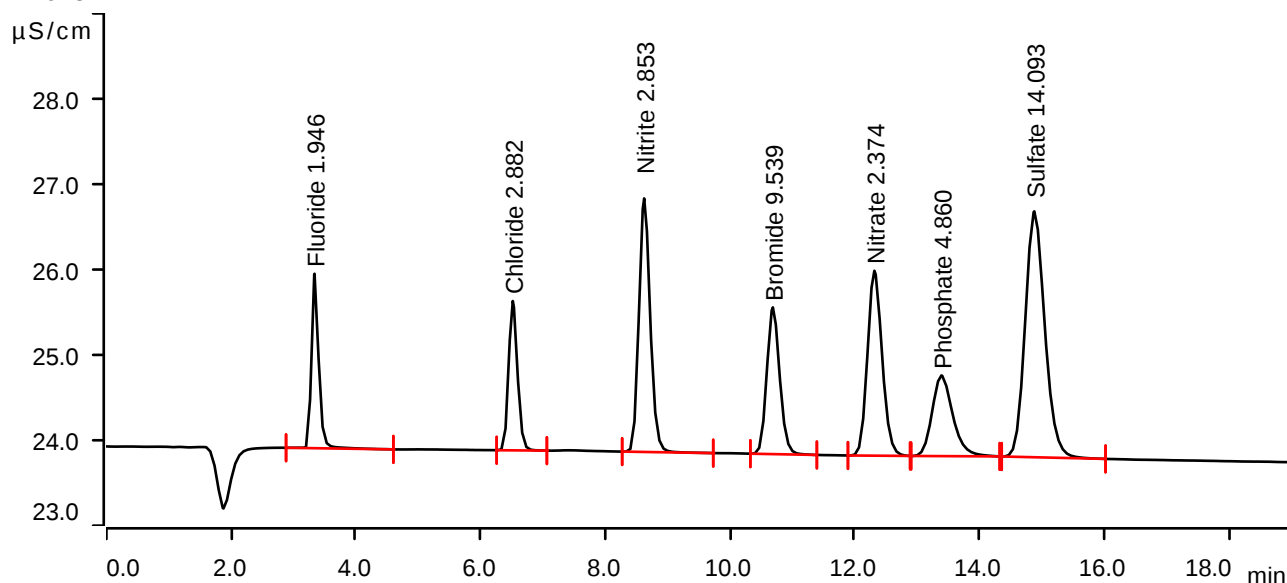
## Sample data

Ident . . . . . LB138120BSW  
Sample type . . . . . Check standard 1  
Determination start . . . . . 2025-12-04 10:53:34 UTC-5  
Method . . . . . IC1-120125  
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<br>min | Area<br>(µS/cm) x min | Height<br>µS/cm | Concentration<br>ppm | Component name |
|-------------|-----------------------|-----------------------|-----------------|----------------------|----------------|
| 1           | 3.338                 | 0.2761                | 2.043           | 1.946                | Fluoride       |
| 2           | 6.517                 | 0.2874                | 1.749           | 2.882                | Chloride       |
| 3           | 8.623                 | 0.6239                | 2.970           | 2.853                | Nitrite        |
| 4           | 10.687                | 0.4121                | 1.719           | 9.539                | Bromide        |
| 5           | 12.313                | 0.5894                | 2.166           | 2.374                | Nitrate        |
| 6           | 13.388                | 0.3616                | 0.945           | 4.860                | Phosphate      |
| 7           | 14.878                | 1.0502                | 2.880           | 14.093               | Sulfate        |

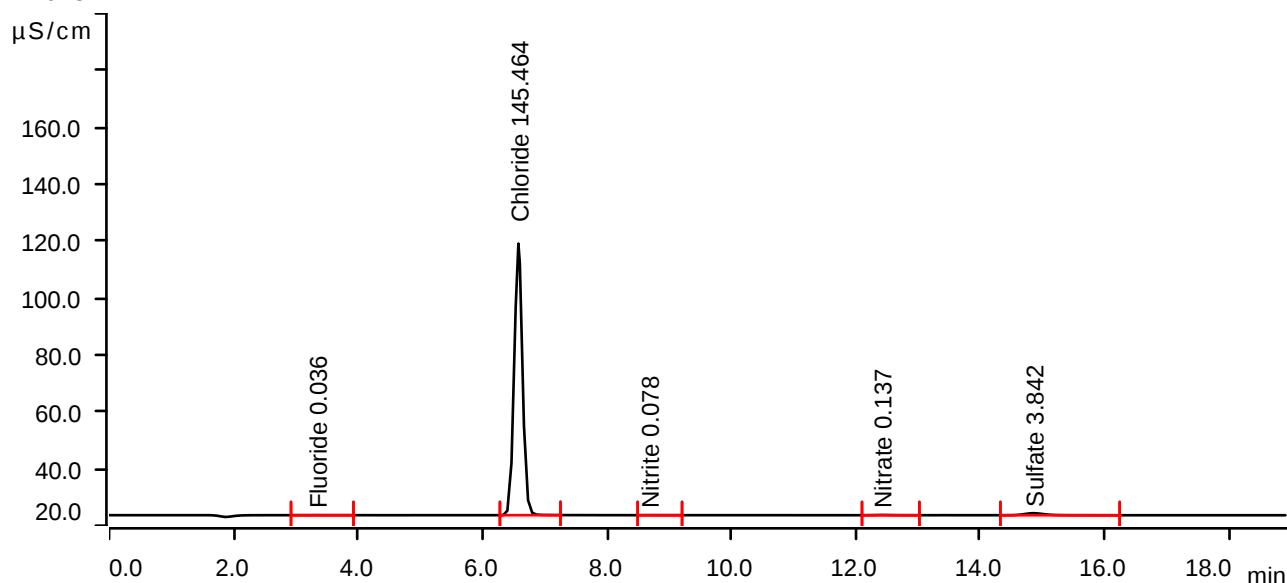
## Sample data

Ident . . . . . Q3778-01  
Sample type . . . . . Sample  
Determination start . . . . . 2025-12-04 12:32:52 UTC-5  
Method . . . . . IC1-120125  
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<br>min | Area<br>(µS/cm) x min | Height<br>µS/cm | Concentration<br>ppm | Component name |
|-------------|-----------------------|-----------------------|-----------------|----------------------|----------------|
| 1           | 3.342                 | 0.0038                | 0.016           | 0.036                | Fluoride       |
| 2           | 6.578                 | 14.6728               | 95.430          | 145.464              | Chloride       |
| 3           | 8.675                 | 0.0023                | 0.011           | 0.078                | Nitrite        |
| 4           | 12.415                | 0.0225                | 0.081           | 0.137                | Nitrate        |
| 5           | 14.855                | 0.2619                | 0.709           | 3.842                | Sulfate        |

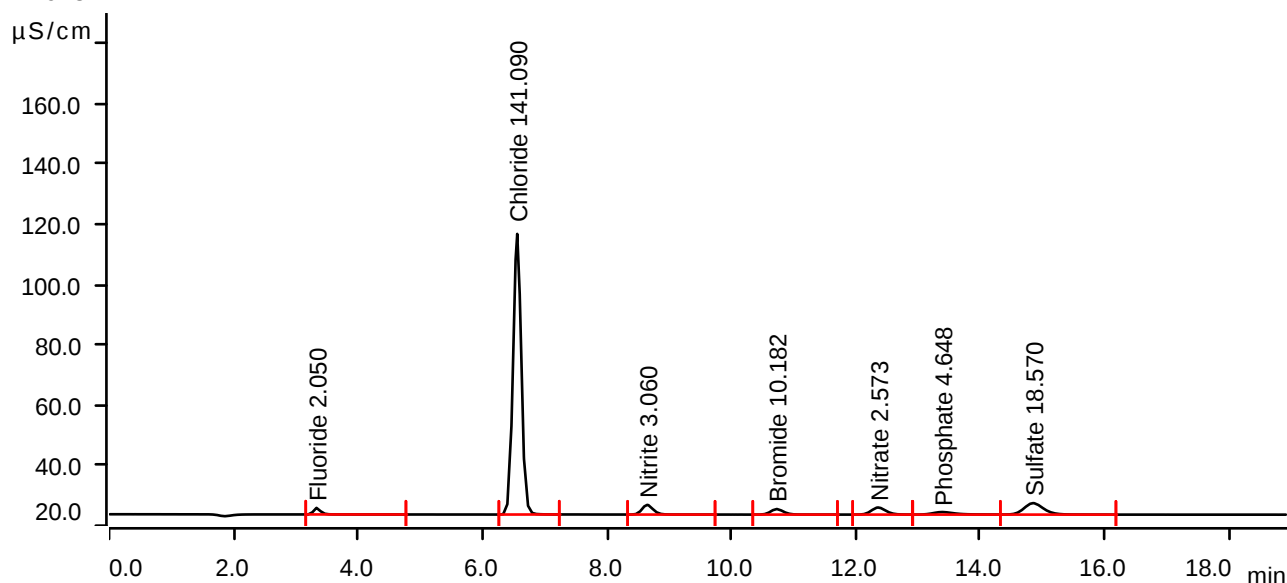
## Sample data

Ident . . . . . Q3778-01MS  
Sample type . . . . . Sample  
Determination start . . . . . 2025-12-04 12:56:16 UTC-5  
Method . . . . . IC1-120125  
Operator . . . . .

## Anions

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

## Anions



| Peak number | Retention time<br>min | Area<br>(µS/cm) x min | Height<br>µS/cm | Concentration<br>ppm | Component name |
|-------------|-----------------------|-----------------------|-----------------|----------------------|----------------|
| 1           | 3.333                 | 0.2908                | 2.172           | 2.050                | Fluoride       |
| 2           | 6.560                 | 14.2316               | 93.126          | 141.090              | Chloride       |
| 3           | 8.648                 | 0.6703                | 3.215           | 3.060                | Nitrite        |
| 4           | 10.728                | 0.4403                | 1.833           | 10.182               | Bromide        |
| 5           | 12.358                | 0.6399                | 2.352           | 2.573                | Nitrate        |
| 6           | 13.388                | 0.3458                | 0.844           | 4.648                | Phosphate      |
| 7           | 14.848                | 1.3945                | 3.808           | 18.570               | Sulfate        |

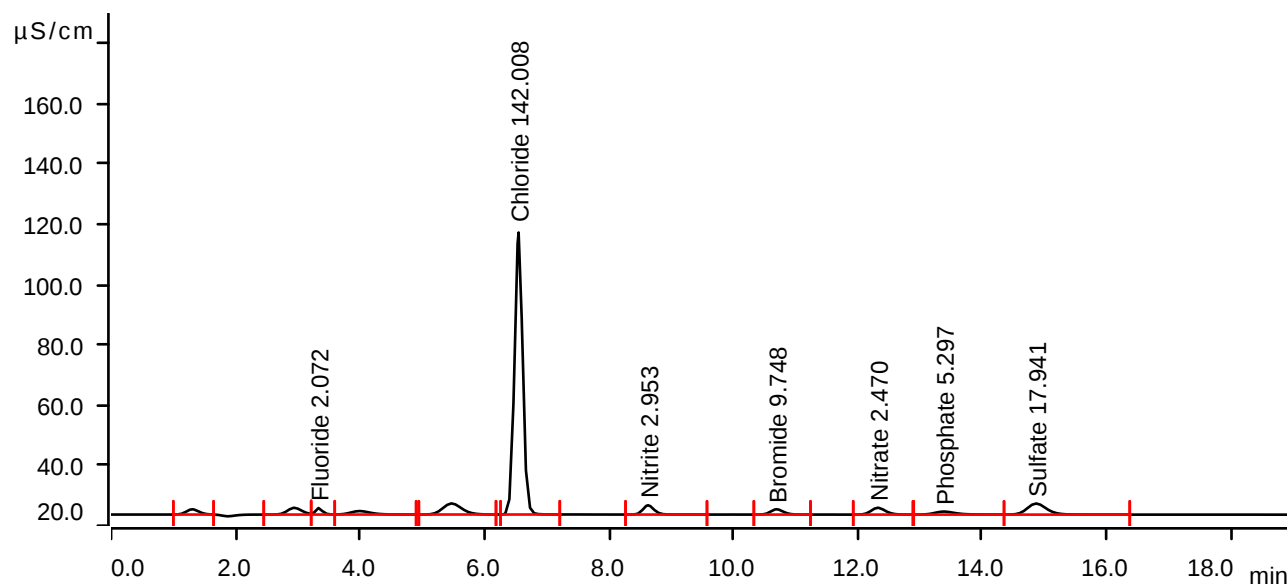
**Sample data**

Ident . . . . . Q3778-01MSD  
Sample type . . . . . Sample  
Determination start . . . . . 2025-12-04 13:27:28 UTC-5  
Method . . . . . IC1-120125  
Operator . . . . .

**Anions**

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

## Anions



| Peak number | Retention time<br>min | Area<br>( $\mu\text{S/cm}$ ) x min | Height<br>$\mu\text{S/cm}$ | Concentration<br>ppm | Component name |
|-------------|-----------------------|------------------------------------|----------------------------|----------------------|----------------|
| 1           | 1.307                 | 0.4178                             | 1.744                      | invalid              |                |
| 2           | 2.945                 | 0.6122                             | 2.249                      | invalid              |                |
| 3           | 3.335                 | 0.2940                             | 2.164                      | 2.072                | Fluoride       |
| 4           | 3.995                 | 0.4401                             | 1.158                      | invalid              |                |
| 5           | 5.473                 | 1.3274                             | 3.678                      | invalid              |                |
| 6           | 6.550                 | 14.3242                            | 93.583                     | 142.008              | Chloride       |
| 7           | 8.630                 | 0.6464                             | 3.086                      | 2.953                | Nitrite        |
| 8           | 10.695                | 0.4212                             | 1.768                      | 9.748                | Bromide        |
| 9           | 12.322                | 0.6137                             | 2.261                      | 2.470                | Nitrate        |
| 10          | 13.383                | 0.3943                             | 1.005                      | 5.297                | Phosphate      |
| 11          | 14.867                | 1.3462                             | 3.685                      | 17.941               | Sulfate        |

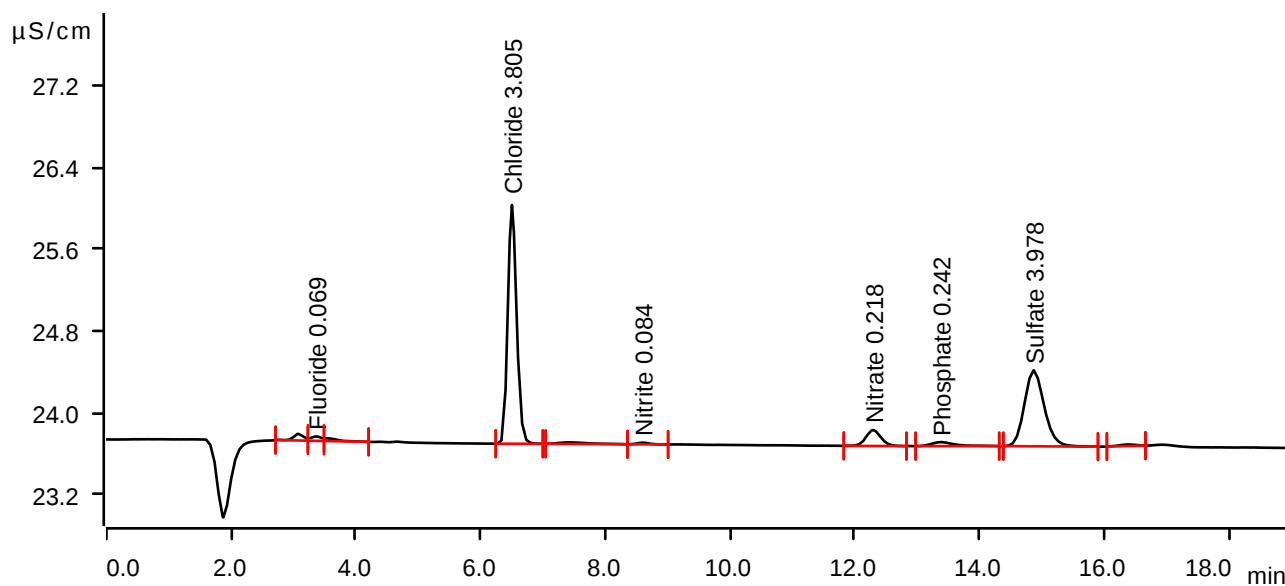
**Sample data**

Ident . . . . . Q3777-01  
Sample type . . . . . Sample  
Determination start . . . . . 2025-12-04 13:50:53 UTC-5  
Method . . . . . IC1-120125  
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<br>min | Area<br>( $\mu\text{S/cm}$ ) x min | Height<br>$\mu\text{S/cm}$ | Concentration<br>ppm | Component name |
|-------------|-----------------------|------------------------------------|----------------------------|----------------------|----------------|
| 1           | 3.077                 | 0.0123                             | 0.065                      | invalid              |                |
| 2           | 3.367                 | 0.0085                             | 0.043                      | 0.069                | Fluoride       |
| 3           | 3.547                 | 0.0066                             | 0.026                      | invalid              |                |
| 4           | 6.503                 | 0.3805                             | 2.331                      | 3.805                | Chloride       |
| 5           | 7.418                 | 0.0086                             | 0.015                      | invalid              |                |
| 6           | 8.595                 | 0.0036                             | 0.016                      | 0.084                | Nitrite        |
| 7           | 12.295                | 0.0432                             | 0.155                      | 0.218                | Nitrate        |
| 8           | 13.375                | 0.0165                             | 0.039                      | 0.242                | Phosphate      |
| 9           | 14.867                | 0.2724                             | 0.742                      | 3.978                | Sulfate        |
| 10          | 16.373                | 0.0047                             | 0.015                      | invalid              |                |

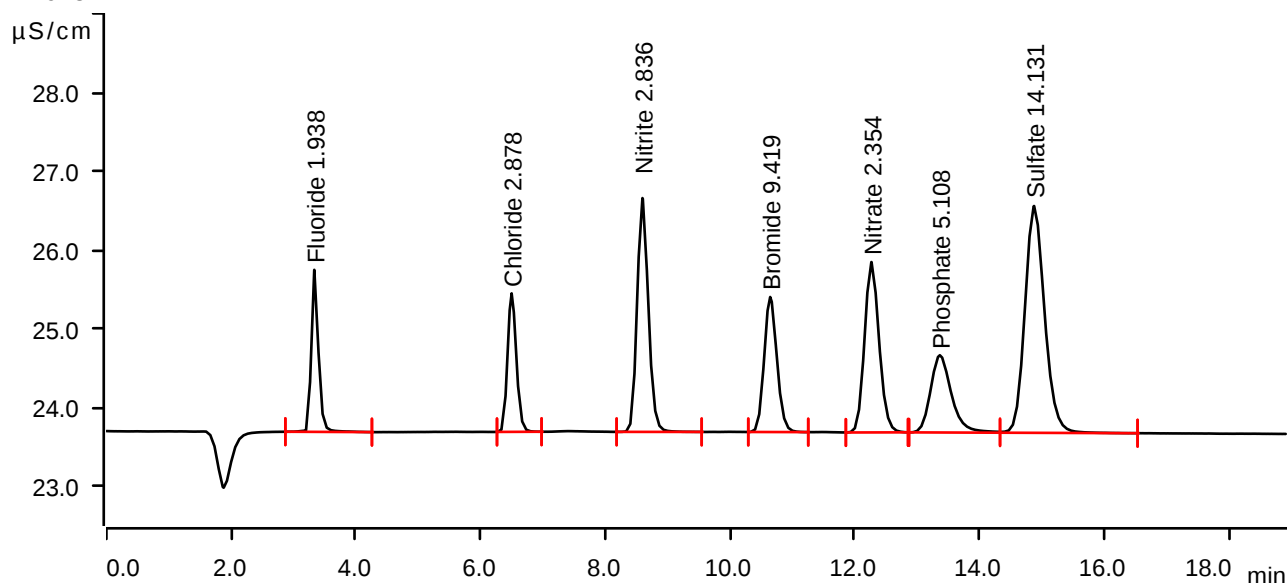
## Sample data

Ident . . . . . CCV  
Sample type . . . . . Check standard 1  
Determination start . . . . . 2025-12-04 14:34:25 UTC-5  
Method . . . . . IC1-120125  
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



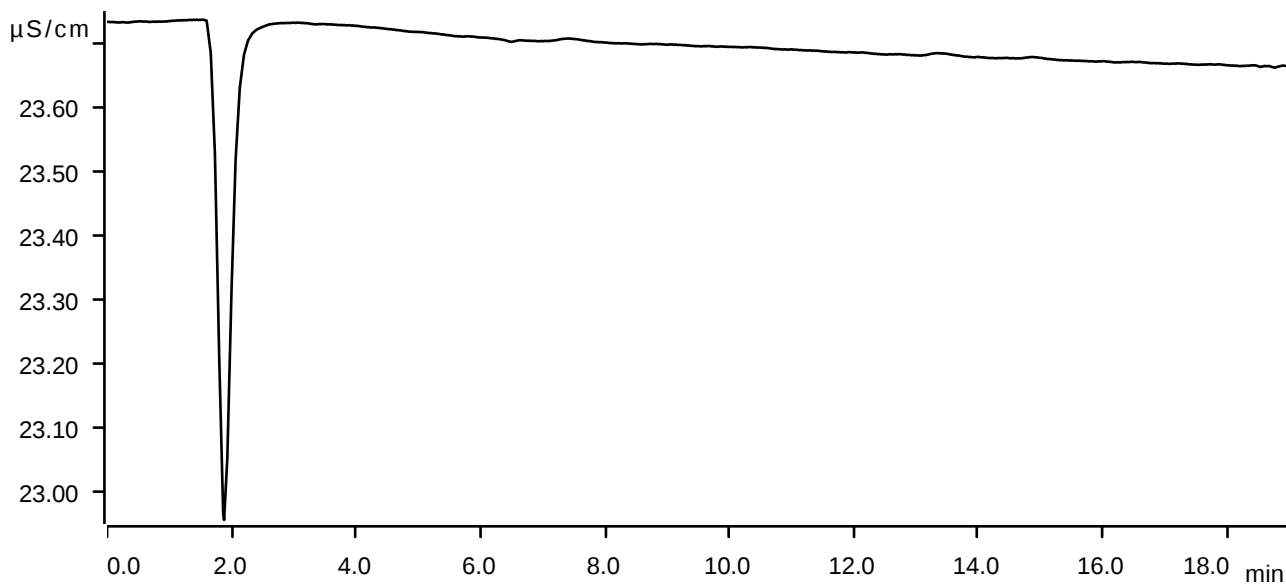
| Peak number | Retention time<br>min | Area<br>(µS/cm) x min | Height<br>µS/cm | Concentration<br>ppm | Component name |
|-------------|-----------------------|-----------------------|-----------------|----------------------|----------------|
| 1           | 3.335                 | 0.2750                | 2.055           | 1.938                | Fluoride       |
| 2           | 6.498                 | 0.2870                | 1.757           | 2.878                | Chloride       |
| 3           | 8.595                 | 0.6201                | 2.967           | 2.836                | Nitrite        |
| 4           | 10.643                | 0.4069                | 1.714           | 9.419                | Bromide        |
| 5           | 12.265                | 0.5843                | 2.162           | 2.354                | Nitrate        |
| 6           | 13.363                | 0.3801                | 0.980           | 5.108                | Phosphate      |
| 7           | 14.875                | 1.0531                | 2.878           | 14.131               | Sulfate        |

**Sample data**

Ident . . . . . CCB  
Sample type . . . . . Sample  
Determination start . . . . . 2025-12-04 14:57:46 UTC-5  
Method . . . . . IC1-120125  
Operator . . . . .

**Anions**

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

**Anions**

LB138131

Test results

Aquakem 7.2AQ1

Page:

Alliance Technical Group

284 Sheffield Street, Mountainside, NJ 07092

Reviewed by : RM

Instrument ID : Konelab

12/5/2025 14:30

Test: TKN-NH3

| Sample Id   | Result | Dil. 1 + | Response | Errors |
|-------------|--------|----------|----------|--------|
| ICV1        | 4.999  | 0.0      | 1.003    |        |
| ICB1        | 0.081  | 0.0      | 0.019    |        |
| CCV1        | 5.094  | 0.0      | 1.022    |        |
| CCB1        | 0.080  | 0.0      | 0.019    |        |
| RL CHECK    | 0.509  | 0.0      | 0.104    |        |
| PB170831BL  | 0.078  | 0.0      | 0.018    |        |
| PB170831BS  | 5.023  | 0.0      | 1.008    |        |
| Q3728-01    | 0.624  | 0.0      | 0.127    |        |
| Q3728-01DUP | 0.626  | 0.0      | 0.128    |        |
| Q3728-01MS  | 4.984  | 0.0      | 1.000    |        |
| Q3728-01MSD | 5.096  | 0.0      | 1.022    |        |
| Q3734-01    | 0.234  | 0.0      | 0.049    |        |
| Q3734-02    | 3.310  | 0.0      | 0.665    |        |
| Q3777-01    | 1.562  | 0.0      | 0.315    |        |
| CCV2        | 5.012  | 0.0      | 1.005    |        |
| CCB2        | 0.080  | 0.0      | 0.018    |        |
| Q3778-01    | 0.284  | 0.0      | 0.059    |        |
| CCV3        | 5.060  | 0.0      | 1.015    |        |
| CCB3        | 0.079  | 0.0      | 0.018    |        |

101% (50-150)

12/5/2025  
RM

N 19  
Mean 2.253  
SD 2.3072  
CV% 102.39

Aquakem v. 7.2AQ1

Results from time period:

Fri Dec 05 13:08:39 2025

Fri Dec 05 14:27:55 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         | 0.1032  | mg/l        | 12/5/2025 13:08:39   |      |
| 0.5PPM      | A          | TKN-NH3      | P         | 0.5347  | mg/l        | 12/5/2025 13:08:40   |      |
| 1.0PPM      | A          | TKN-NH3      | P         | 1.0112  | mg/l        | 12/5/2025 13:08:41   |      |
| 2.5PPM      | A          | TKN-NH3      | P         | 2.4987  | mg/l        | 12/5/2025 13:08:42   |      |
| 5.0PPM      | A          | TKN-NH3      | P         | 4.9625  | mg/l        | 12/5/2025 13:08:43   |      |
| 6.7PPM      | A          | TKN-NH3      | P         | 6.2869  | mg/l        | 12/5/2025 13:08:44   |      |
| 10.0PPM     | A          | TKN-NH3      | P         | 10.2694 | mg/l        | 12/5/2025 13:08:45   |      |
| ICV1        | S          | TKN-NH3      | P         | 4.9986  | mg/l        | 12/5/2025 14:00:58   |      |
| ICB1        | S          | TKN-NH3      | P         | 0.0814  | mg/l        | 12/5/2025 14:01:00   |      |
| CCV1        | S          | TKN-NH3      | P         | 5.0943  | mg/l        | 12/5/2025 14:01:03   |      |
| CCB1        | S          | TKN-NH3      | P         | 0.0804  | mg/l        | 12/5/2025 14:01:05   |      |
| RL CHECK    | S          | TKN-NH3      | P         | 0.5091  | mg/l        | 12/5/2025 14:01:08   |      |
| PB170831BL  | S          | TKN-NH3      | P         | 0.0784  | mg/l        | 12/5/2025 14:11:43   |      |
| PB170831BS  | S          | TKN-NH3      | P         | 5.023   | mg/l        | 12/5/2025 14:11:46   |      |
| Q3728-01    | S          | TKN-NH3      | P         | 0.6243  | mg/l        | 12/5/2025 14:11:47   |      |
| Q3728-01DUP | S          | TKN-NH3      | P         | 0.6255  | mg/l        | 12/5/2025 14:11:49   |      |
| Q3728-01MS  | S          | TKN-NH3      | P         | 4.9838  | mg/l        | 12/5/2025 14:11:51   |      |
| Q3728-01MSD | S          | TKN-NH3      | P         | 5.0958  | mg/l        | 12/5/2025 14:11:52   |      |
| Q3734-01    | S          | TKN-NH3      | P         | 0.2341  | mg/l        | 12/5/2025 14:22:24   |      |
| Q3734-02    | S          | TKN-NH3      | P         | 3.31    | mg/l        | 12/5/2025 14:22:25   |      |
| Q3777-01    | S          | TKN-NH3      | P         | 1.5616  | mg/l        | 12/5/2025 14:22:26   |      |
| CCV2        | S          | TKN-NH3      | P         | 5.0121  | mg/l        | 12/5/2025 14:22:29   |      |
| CCB2        | S          | TKN-NH3      | P         | 0.0797  | mg/l        | 12/5/2025 14:22:32   |      |
| Q3778-01    | S          | TKN-NH3      | P         | 0.2842  | mg/l        | 12/5/2025 14:22:33   |      |
| CCV3        | S          | TKN-NH3      | P         | 5.0603  | mg/l        | 12/5/2025 14:22:34   |      |
| CCB3        | S          | TKN-NH3      | P         | 0.0794  | mg/l        | 12/5/2025 14:27:54   |      |

Calibration results

Aquakem 7.2AQ1

Page:

Alliance Technical Group

284 Sheffield Street, Mountainside, NJ 07092

Reviewed by : RM

Instrument ID : Konelab

12/5/2025 13:18

Test TKN-NH3

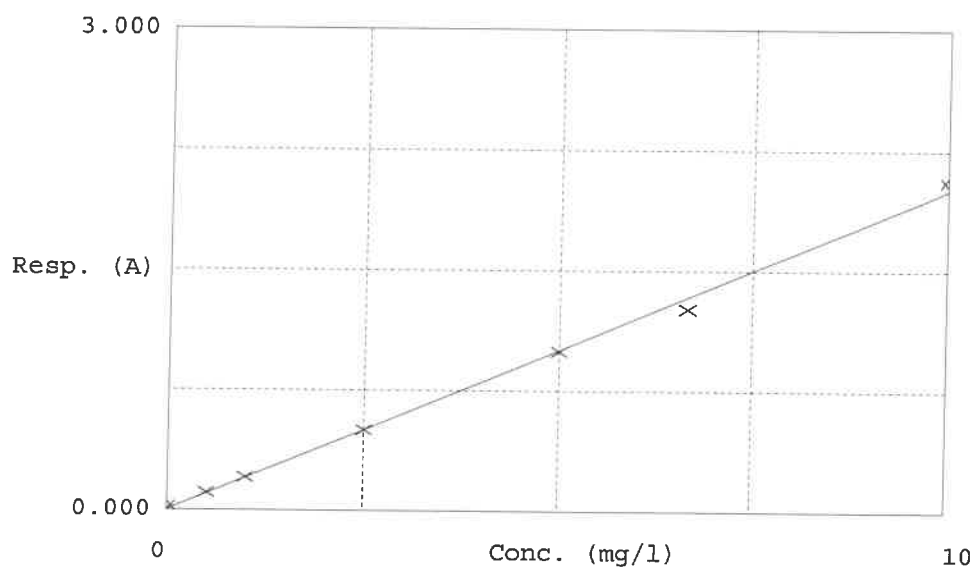
Accepted 12/5/2025 13:18

Factor 4.998

Bias 0.003

Coeff. of det. 0.997229

Errors



|   | Calibrator | Response | Calc. con. | Conc.   | Re<br>Errors |
|---|------------|----------|------------|---------|--------------|
| 1 | 0.00PPM    | 0.023    | 0.1032     | 0.0000  | -            |
| 2 | TKN-10     | 0.110    | 0.5347     | 0.5000  | 6.9          |
| 3 | TKN-10     | 0.205    | 1.0112     | 1.0000  | 1.1          |
| 4 | TKN-10     | 0.503    | 2.4987     | 2.5000  | -0.1         |
| 5 | TKN-10     | 0.996    | 4.9625     | 5.0000  | -0.7         |
| 6 | TKN-10     | 1.261    | 6.2869     | 6.6667  | -6.2         |
| 7 | TKN-10     | 2.057    | 10.2694    | 10.0000 | 2.7          |

12/5/2025

RM

## Analytical Summary Report

Analysis Method: 365.3  
Parameter: Phosphorus-Total  
Run Number: LB138132

ANALYST: Iwona  
SUPERVISOR REVIEW BY: jignesh

| Reagent/Standard                    | Lot/Log # |
|-------------------------------------|-----------|
| calibration std. phosphate 1 ppm    | WP115969  |
| calibration std. phosphate 0.5 ppm  | WP115968  |
| calibration std. phosphate 0.3 ppm  | WP115967  |
| calibration std. phosphate 0.1 ppm  | WP115966  |
| calibration std. phosphate 0.05 ppm | WP115965  |
| calibration std. 0 ppm              | WP115964  |
| phosphate CCV std.                  | WP115970  |
| 5N sulfuric acid                    | WP115340  |
| Combined reagent                    | WP115974  |
| Phenolphthalein indicator           | WP115975  |
| Sodium hydroxide, 1N                | WP113878  |
| Phosphate ICV-LCS Std               | WP115971  |

Intercept: -0.0037      Slope: 0.6502      Regression: 0.99972

| Seq | Lab ID | True Value (mg/L) | DF | Initial Volume (mL) | Final Volume (mL) | Absorbance Reading at 880nm | Result (mg/L) | %D   | AnalDate   | AnalTime |
|-----|--------|-------------------|----|---------------------|-------------------|-----------------------------|---------------|------|------------|----------|
| 1   | CAL1   | 0.00              | 1  | 50                  | 50                | 0.000                       | 0.006         |      | 12/05/2025 | 13:40    |
| 2   | CAL2   | 0.05              | 1  | 50                  | 50                | 0.032                       | 0.055         | 10   | 12/05/2025 | 13:40    |
| 3   | CAL3   | 0.10              | 1  | 50                  | 50                | 0.064                       | 0.104         | 4    | 12/05/2025 | 13:41    |
| 4   | CAL4   | 0.30              | 1  | 50                  | 50                | 0.181                       | 0.284         | -5.3 | 12/05/2025 | 13:41    |
| 5   | CAL5   | 0.50              | 1  | 50                  | 50                | 0.318                       | 0.495         | -1   | 12/05/2025 | 13:42    |
| 6   | CAL6   | 1.00              | 1  | 50                  | 50                | 0.651                       | 1.007         | 0.7  | 12/05/2025 | 13:42    |

Analysis Method: 365.3

ANALYST: Iwona

Parameter: Phosphorus-Total

SUPERVISOR REVIEW BY: jignesh

Run Number: LB138132

| Seq | Lab ID      | True Value (mg/l) | DF | Initial Volume (mL) | Final Volume (mL) | Absorbance Reading at 880nm | Result (mg/L) | AnalDate   | AnalTime |
|-----|-------------|-------------------|----|---------------------|-------------------|-----------------------------|---------------|------------|----------|
| 1   | ICV         | 0.50              | 1  | 50                  | 50                | 0.336                       | 0.522         | 12/05/2025 | 13:43    |
| 2   | ICB         |                   | 1  | 50                  | 50                | 0.003                       | 0.010         | 12/05/2025 | 13:43    |
| 3   | CCV1        | 0.50              | 1  | 50                  | 50                | 0.321                       | 0.499         | 12/05/2025 | 13:44    |
| 4   | CCB1        |                   | 1  | 50                  | 50                | 0.002                       | 0.009         | 12/05/2025 | 13:44    |
| 5   | RL Check    | 0.05              | 1  | 50                  | 50                | 0.024                       | 0.043         | 12/05/2025 | 13:45    |
| 6   | PB170844BL  |                   | 1  | 50                  | 50                | 0.002                       | 0.009         | 12/05/2025 | 13:45    |
| 7   | PB170844BS  | 0.50              | 1  | 50                  | 50                | 0.334                       | 0.519         | 12/05/2025 | 13:46    |
| 8   | Q3728-01    |                   | 1  | 50                  | 50                | 0.063                       | 0.103         | 12/05/2025 | 13:46    |
| 9   | Q3729-01    |                   | 1  | 50                  | 50                | 0.048                       | 0.080         | 12/05/2025 | 13:47    |
| 10  | Q3734-01    |                   | 1  | 50                  | 50                | 0.089                       | 0.143         | 12/05/2025 | 13:47    |
| 11  | Q3734-02    |                   | 1  | 50                  | 50                | 0.043                       | 0.072         | 12/05/2025 | 13:48    |
| 12  | Q3772-01    |                   | 1  | 50                  | 50                | 0.040                       | 0.067         | 12/05/2025 | 13:48    |
| 13  | Q3777-01    |                   | 1  | 50                  | 50                | 0.134                       | 0.212         | 12/05/2025 | 13:49    |
| 14  | Q3778-01    |                   | 1  | 50                  | 50                | 0.038                       | 0.064         | 12/05/2025 | 13:49    |
| 15  | Q3778-01DUP |                   | 1  | 50                  | 50                | 0.037                       | 0.063         | 12/05/2025 | 13:50    |
| 16  | CCV2        | 0.50              | 1  | 50                  | 50                | 0.326                       | 0.507         | 12/05/2025 | 13:50    |
| 17  | CCB2        |                   | 1  | 50                  | 50                | 0.003                       | 0.010         | 12/05/2025 | 13:51    |
| 18  | Q3778-01MS  | 0.50              | 1  | 50                  | 50                | 0.340                       | 0.529         | 12/05/2025 | 13:51    |
| 19  | Q3778-01MSD | 0.50              | 1  | 50                  | 50                | 0.337                       | 0.524         | 12/05/2025 | 13:52    |
| 20  | CCV3        | 0.50              | 1  | 50                  | 50                | 0.320                       | 0.498         | 12/05/2025 | 13:52    |
| 21  | CCB3        |                   | 1  | 50                  | 50                | 0.003                       | 0.010         | 12/05/2025 | 13:53    |

## Extraction and Analytical Summary Report

Analysis Method: 1664A

Test: Oil and Grease

Run Number: LB138150

Analysis Date: 12/08/2025

BalanceID: WC SC-5

OvenID: EXT OVEN-3

ANALYST: jignesh

REVIEWED BY: Iwona

Extraction Date: 12/08/2025

Extraction IN Time: 11:15

Extraction OUT Time: 11:35

Thermometer ID: EXT OVEN#3

| Dish # | Lab ID     | Client ID              | Matrix | pH  | Sample Vol (ml) | Final Volume (ml) | Empty Dish Weight (g) | Final Empty Dish Weight (g) | Silica Gel Weight (g) | Weight After Drying (g) | Final Weight After Drying (g) | Change Weight (g) | Result in ppm |
|--------|------------|------------------------|--------|-----|-----------------|-------------------|-----------------------|-----------------------------|-----------------------|-------------------------|-------------------------------|-------------------|---------------|
| 1      | LB138150BL | LB138150BL             | WATER  | 1.3 | 1000            | 100               | 3.4217                | 3.4217                      | 0                     | 3.4218                  | 3.4218                        | 0.0001            | 0.1           |
| 2      | LB138150BS | LB138150BS             | WATER  | 1.3 | 1000            | 100               | 2.8563                | 2.8563                      | 0                     | 2.8730                  | 2.8730                        | 0.0167            | 16.7          |
| 3      | Q3760-01   | 001 Willets Pt Blvd (D | WATER  | 1.3 | 1000            | 100               | 3.0535                | 3.0535                      | 0                     | 3.0591                  | 3.0591                        | 0.0056            | 5.6           |
| 4      | Q3760-02   | 002 35th Ave (Dec)     | WATER  | 1.3 | 1000            | 100               | 3.0717                | 3.0717                      | 0                     | 3.0788                  | 3.0788                        | 0.0071            | 7.1           |
| 5      | Q3772-01   | EFFLUENT               | WATER  | 1.6 | 1000            | 100               | 3.0551                | 3.0551                      | 0                     | 3.0653                  | 3.0653                        | 0.0102            | 10.2          |
| 6      | Q3772-02   | Q3772-01MS             | WATER  | 1.6 | 1000            | 100               | 3.1658                | 3.1658                      | 0                     | 3.1969                  | 3.1969                        | 0.0311            | 31.1          |
| 7      | Q3772-03   | Q3772-01MSD            | WATER  | 1.6 | 1000            | 100               | 2.8413                | 2.8413                      | 0                     | 2.8722                  | 2.8722                        | 0.0309            | 30.9          |
| 8      | Q3777-01   | SW-1                   | WATER  | 1.6 | 400             | 100               | 3.1068                | 3.1068                      | 0                     | 3.1091                  | 3.1091                        | 0.0023            | 5.75          |
| 9      | Q3778-01   | SW-2                   | WATER  | 1.6 | 900             | 100               | 3.0328                | 3.0328                      | 0                     | 3.0332                  | 3.0332                        | 0.0004            | 0.44          |
| 10     | Q3785-01   | WATER-TREATMEN DISCHAF | WATER  | 1.6 | 1000            | 100               | 3.0354                | 3.0354                      | 0                     | 3.0387                  | 3.0387                        | 0.0033            | 3.3           |
| 11     | Q3785-02   | Q3785-01MS             | WATER  | 1.6 | 1000            | 100               | 3.1961                | 3.1961                      | 0                     | 3.2199                  | 3.2199                        | 0.0238            | 23.8          |
| 12     | Q3785-03   | Q3785-01MSD            | WATER  | 1.6 | 1000            | 100               | 2.7411                | 2.7411                      | 0                     | 2.7652                  | 2.7652                        | 0.0241            | 24.1          |
| 13     | Q3793-01   | MH-1252025             | WATER  | 1.6 | 1000            | 100               | 3.0778                | 3.0778                      | 0                     | 3.4545                  | 3.4545                        | 0.3767            | 376.7         |
| 14     | Q3793-02   | Q3793-01-MS            | WATER  | 1.6 | 1000            | 100               | 2.9633                | 2.9633                      | 0                     | 3.3605                  | 3.3605                        | 0.3972            | 397.2         |
| 15     | Q3793-03   | Q3793-01-MSD           | WATER  | 1.6 | 1000            | 100               | 2.9971                | 2.9971                      | 0                     | 3.3951                  | 3.3951                        | 0.3980            | 398           |

QC Batch# LB138150

**Test:** Oil and Grease

**Analysis Date:** 12/08/2025

### Chemicals Used:

| Chemical Name  | Chemical Lot # |
|----------------|----------------|
| HEXANE         | W3240          |
| pH Paper 0-14  | M6069          |
| Sodium Sulfate | EP2665         |
| 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 : 71 °C Dessicator Time In1 : 13:32

1.0000 gram Balance: 1.0004 (0.9950-1.0050) In Time1: 12:37

Bal Check Time: 11:20 Out OVEN TEMP1: 70 °C Dessicator Time Out1: 14:00

Out Time1: 13:30

## After Analysis

0.0020 gram Balance: 0.002 (0.0018-0.0022) In OVEN TEMP2 : 71 °C Dessicator Time In2 : 15:16

1.0000 gram Balance: 1.0003 (0.9950-1.0050) In Time2: 14:37

Bal Check Time: 16:02 Out OVEN TEMP2: 70 °C Dessicator Time Out2: 16:00

Out Time2: 15:15

WORKLIST(Hardcopy Internal Chain)

138151

WorkList Name : tph q3793

WorkList ID : 193530

Department : Wet-Chemistry

Date : 12-08-2025 10:57:19

| Sample     | Customer Sample | Matrix | Test | Preservative         | Customer | Raw Sample Storage Location | Collect Date | Method |
|------------|-----------------|--------|------|----------------------|----------|-----------------------------|--------------|--------|
| Q3752-01 D | 402             | Water  | TPH  | Conc H2SO4 to pH < 2 | PSEG04   | A13                         | 12/02/2025   | 1664A  |
| Q3771-01   | Grab            | Water  | TPH  | Conc H2SO4 to pH < 2 | ARAM01   | A11                         | 12/03/2025   | 1664A  |
| Q3793-01 E | MH-1252025      | Water  | TPH  | Conc H2SO4 to pH < 2 | EURO03   | D11                         | 12/05/2025   | 1664A  |

Date/Time 12/08/25 11:10

Raw Sample Received by: 70 (wec)

Raw Sample Relinquished by: CPD

Date/Time

12/08/25

Raw Sample Received by:

Raw Sample Relinquished by:

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

SDG No : N/A

Start Digest Date: 12/05/2025 Time : 08:50 Temp : 380 °C

Matrix : WATER

End Digest Date: 12/05/2025 Time : 10:20 Temp : 385 °C

Pipette ID : WC

Start Distillation Date: 12/05/2025 Time : 10:45 Temp : 150 °C

Balance ID : N/A

End Distillation Date: 12/05/2025 Time : 11:45 Temp : 159 °C

Hood ID : HOOD#2&amp;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   | WP115952            |
| TKN CCV STD       | 50.0ML   | WP115953            |
| TKN ICV STD       | 50.0ML   | WP115954            |
| TKN LCS STD       | 50.0ML   | WP115955            |
| MS/MSD SPIKE SOL. | 0.25ML   | WP115085            |

| Chemical Used           | ML/SAMPLE USED | Lot Number |
|-------------------------|----------------|------------|
| TKN DIGESTION FLUID     | 10.0ML         | WP115817   |
| 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 WP115953 ,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 |
|-----------------|-----------------------------------------|----------------------|
| 12/5/2025 12:00 | RM WWC                                  | RM WWC               |
| 12/5/2025 13:20 | Preparation Group                       | Analysis Group       |

| Lab Sample ID | Client Sample ID | Initial Vol (ml) | Final Vol (ml) | pH | Sulfide | Oxidizing | Nitrate/ Nitrite | Comment                        | Prep Pos |
|---------------|------------------|------------------|----------------|----|---------|-----------|------------------|--------------------------------|----------|
| PB170831BL    | PBW831           | 50               | 50             | <2 | N/A     | N/A       | N/A              | PH AFTER ADDING DIST BUFFER>11 | N/A      |
| PB170831BS    | LCS831           | 50               | 50             | <2 | N/A     | N/A       | N/A              | PH AFTER ADDING DIST BUFFER>11 | N/A      |
| Q3728-01      | SW-1             | 50               | 50             | <2 | N/A     | N/A       | N/A              | PH AFTER ADDING DIST BUFFER>11 | N/A      |
| Q3728-01DUP   | SW-1DUP          | 50               | 50             | <2 | N/A     | N/A       | N/A              | PH AFTER ADDING DIST BUFFER>11 | N/A      |
| Q3728-01MS    | SW-1MS           | 50               | 50             | <2 | N/A     | N/A       | N/A              | PH AFTER ADDING DIST BUFFER>11 | N/A      |
| Q3728-01MSD   | SW-1MSD          | 50               | 50             | <2 | N/A     | N/A       | N/A              | PH AFTER ADDING DIST BUFFER>11 | N/A      |
| Q3734-01      | SW-1             | 50               | 50             | <2 | N/A     | N/A       | N/A              | PH AFTER ADDING DIST BUFFER>11 | N/A      |
| Q3734-02      | SW-2             | 50               | 50             | <2 | N/A     | N/A       | N/A              | PH AFTER ADDING DIST BUFFER>11 | N/A      |
| Q3777-01      | SW-1             | 50               | 50             | <2 | N/A     | N/A       | N/A              | PH AFTER ADDING DIST BUFFER>11 | N/A      |
| Q3778-01      | SW-2             | 50               | 50             | <2 | N/A     | N/A       | N/A              | PH AFTER ADDING DIST BUFFER>11 | N/A      |

# WORKLIST(Hardcopy Internal Chain)

WorkList Name : tkn-12-01

WorkList ID : 193389

Department : Distillation

Date : 12-01-2025 08:44:07

| Sample   | Customer Sample | Matrix | Test | Preservative         | Customer | Raw Sample Storage Location | Collect Date | Method       |
|----------|-----------------|--------|------|----------------------|----------|-----------------------------|--------------|--------------|
| Q3728-01 | SW-1            | Water  | TKN  | Conc H2SO4 to pH < 2 | ATGG01   | A11                         | 11/25/2025   | SM4500 N Org |
| Q3734-01 | SW-1            | Water  | TKN  | Conc H2SO4 to pH < 2 | ATGG01   | A43                         | 11/25/2025   | SM4500 N Org |
| Q3734-02 | SW-2            | Water  | TKN  | Conc H2SO4 to pH < 2 | ATGG01   | A43                         | 11/25/2025   | SM4500 N Org |
| Q3777-01 | SW-1            | Water  | TKN  | Conc H2SO4 to pH < 2 | ATGG01   | A11                         | 12/02/2025   | SM4500 N Org |
| Q3778-01 | SW-2            | Water  | TKN  | Conc H2SO4 to pH < 2 | ATGG01   | A11                         | 12/02/2025   | SM4500 N Org |

Date/Time 12/5/2025 08:15  
 Raw Sample Received by: RM 12/5/2025  
 Raw Sample Relinquished by: RM 12/5/2025

Date/Time 12/5/2025 11:00  
 Raw Sample Received by: RM 12/5/2025  
 Raw Sample Relinquished by: RM 12/5/2025

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

SDG No : N/A

Matrix : WATER

Pipette ID : WC

Balance ID : N/A

Hood ID : HOOD#3

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

Weigh By : N/A

Start Digest Date: 12/05/2025 Time : 10:45 Temp : 95 °C

End Digest Date: 12/05/2025 Time : 11:50 Temp : 96 °C

*Ind below* 12/05/2025 12:00 95% yr  
 12/05/2025 13:00 96% yr

Digestion tube ID : M5595

Block Thermometer ID : WC-BLOCK#1

Filter paper ID : 400213

Prep Technician Signature: 12

pH Meter ID : N/A

Supervisor Signature: SP

| Standard Name     | MLS USED | STD REF. # FROM LOG |
|-------------------|----------|---------------------|
| LCSW              | 0.5ML    | WP115559            |
| MS/MSD SPIKE SOL. | 0.5ML    | WP115558            |
| PBW               | 50.ML    | W3112               |
| RL CHECK          | 50.0ML   | WP115972            |
| N/A               | N/A      | N/A                 |

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

| LAB SAMPLE ID | CLIENT SAMPLE ID | Wt(g)/Vol(ml) | Comment  |
|---------------|------------------|---------------|----------|
| CAL1          | CAL1             | 50.0ML        | WP115964 |
| CAL2          | CAL2             | 50.0ML        | WP115965 |
| CAL3          | CAL3             | 50.0ML        | WP115966 |
| CAL4          | CAL4             | 50.0ML        | WP115967 |
| CAL5          | CAL5             | 50.0ML        | WP115968 |
| CAL6          | CAL6             | 50.0ML        | WP115969 |
| ICV           | ICV              | 50.0ML        | WP115971 |
| ICB           | ICB              | 50.0ML        | W3112    |
| CCV           | CCV              | 50.0ML        | WP115970 |
| CCB           | CCB              | 50.0ML        | W3112    |

## Extraction Conformance/Non-Conformance Comments:

N/A

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

12 12/05/25

| Lab Sample ID | Client Sample ID | Initial Vol (ml) | Final Vol (ml) | pH | Sulfide | Oxidizing | Nitrate/ Nitrite | Comment | Prep Pos |
|---------------|------------------|------------------|----------------|----|---------|-----------|------------------|---------|----------|
| PB170844BL    | PBW844           | 50               | 50             | <2 | N/A     | N/A       | N/A              | N/A     | N/A      |
| PB170844BS    | LCS844           | 50               | 50             | <2 | N/A     | N/A       | N/A              | N/A     | N/A      |
| Q3728-01      | SW-1             | 50               | 50             | <2 | N/A     | N/A       | N/A              | N/A     | N/A      |
| Q3729-01      | 1                | 50               | 50             | <2 | N/A     | N/A       | N/A              | N/A     | N/A      |
| Q3734-01      | SW-1             | 50               | 50             | <2 | N/A     | N/A       | N/A              | N/A     | N/A      |
| Q3734-02      | SW-2             | 50               | 50             | <2 | N/A     | N/A       | N/A              | N/A     | N/A      |
| Q3772-01      | EFFLUENT         | 50               | 50             | <2 | N/A     | N/A       | N/A              | N/A     | N/A      |
| Q3777-01      | SW-1             | 50               | 50             | <2 | N/A     | N/A       | N/A              | N/A     | N/A      |
| Q3778-01      | SW-2             | 50               | 50             | <2 | N/A     | N/A       | N/A              | N/A     | N/A      |
| Q3778-01DUP   | SW-2DUP          | 50               | 50             | <2 | N/A     | N/A       | N/A              | N/A     | N/A      |
| Q3778-01MS    | SW-2MS           | 50               | 50             | <2 | N/A     | N/A       | N/A              | N/A     | N/A      |
| Q3778-01MSD   | SW-2MSD          | 50               | 50             | <2 | N/A     | N/A       | N/A              | N/A     | N/A      |

# WORKLIST(Hardcopy Internal Chain)

WorkList Name : phos total

WorkList ID : 193497

Department : Distillation

Date : 12-05-2025 08:12:19

| Sample   | Customer Sample | Matrix | Test             | Preservative         | Customer | Raw Sample<br>Storage<br>Location | Collect Date | Method |
|----------|-----------------|--------|------------------|----------------------|----------|-----------------------------------|--------------|--------|
| Q3728-01 | SW-1            | Water  | Phosphorus-Total | Conc H2SO4 to pH < 2 | ATGG01   | A11                               | 11/25/2025   | 365.3  |
| Q3729-01 | 1               | Water  | Phosphorus-Total | Conc H2SO4 to pH < 2 | ATGG01   | A11                               | 11/25/2025   | 365.3  |
| Q3734-01 | SW-1            | Water  | Phosphorus-Total | Conc H2SO4 to pH < 2 | ATGG01   | A43                               | 11/25/2025   | 365.3  |
| Q3734-02 | SW-2            | Water  | Phosphorus-Total | Conc H2SO4 to pH < 2 | ATGG01   | A43                               | 11/25/2025   | 365.3  |
| Q3772-01 | EFFLUENT        | Water  | Phosphorus-Total | Conc H2SO4 to pH < 2 | HOLL01   | A11                               | 12/03/2025   | 365.3  |
| Q3777-01 | SW-1            | Water  | Phosphorus-Total | Conc H2SO4 to pH < 2 | ATGG01   | A11                               | 12/02/2025   | 365.3  |
| Q3778-01 | SW-2            | Water  | Phosphorus-Total | Conc H2SO4 to pH < 2 | ATGG01   | A11                               | 12/02/2025   | 365.3  |

Date/Time 12/05/25 10:10  
 Raw Sample Received by: 12 (WC)  
 Raw Sample Relinquished by: 12 (WC)

Date/Time 12/05/25 12:30  
 Raw Sample Received by: 12 (WC)  
 Raw Sample Relinquished by: 12 (WC)

**Instrument ID:** WC SC-3

**Daily Analysis Runlog For Sequence/QC Batch ID # LB138118**

|                  |                  |              |                      |
|------------------|------------------|--------------|----------------------|
| Review By        | jignesh          | Review On    | 12/5/2025 8:55:44 AM |
| Supervise By     | Iwona            | Supervise On | 12/5/2025 9:59:39 AM |
| SubDirectory     | LB138118         | Test         | TSS                  |
| <b>STD. NAME</b> | <b>STD REF.#</b> |              |                      |
| 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   | LB138118BL  | LB138118BL             | MB     | 12/04/25 16:00 |                            | jignesh  | OK     |
| 2   | LB138118BS  | LB138118BS             | LCS    | 12/04/25 16:00 | 55 mg w3186 + 100 ml w3112 | jignesh  | OK     |
| 3   | Q3760-01    | 001 Willets Pt Blvd (D | SAM    | 12/04/25 16:00 |                            | jignesh  | OK     |
| 4   | Q3760-02    | 002 35th Ave (Dec)     | SAM    | 12/04/25 16:00 |                            | jignesh  | OK     |
| 5   | Q3760-02DUP | 002 35th Ave (Dec)DU   | DUP    | 12/04/25 16:00 |                            | jignesh  | OK     |
| 6   | Q3771-02    | Comp                   | SAM    | 12/04/25 16:00 |                            | jignesh  | OK     |
| 7   | Q3772-01    | EFFLUENT               | SAM    | 12/04/25 16:00 |                            | jignesh  | OK     |
| 8   | Q3772-04    | AERATION               | SAM    | 12/04/25 16:00 |                            | jignesh  | OK     |
| 9   | Q3773-01    | TOWER#1                | SAM    | 12/04/25 16:00 |                            | jignesh  | OK     |
| 10  | Q3774-01    | DSN002                 | SAM    | 12/04/25 16:00 |                            | jignesh  | OK     |
| 11  | Q3774-03    | DSN001                 | SAM    | 12/04/25 16:00 |                            | jignesh  | OK     |
| 12  | Q3774-05    | DSN003                 | SAM    | 12/04/25 16:00 |                            | jignesh  | OK     |
| 13  | Q3777-01    | SW-1                   | SAM    | 12/04/25 16:00 |                            | jignesh  | OK     |
| 14  | Q3778-01    | SW-2                   | SAM    | 12/04/25 16:00 |                            | jignesh  | OK     |
| 15  | Q3785-04    | WATER-TREATMENT        | SAM    | 12/04/25 16:00 |                            | jignesh  | OK     |

**Instrument ID:** IC-1

**Daily Analysis Runlog For Sequence/QC Batch ID # LB138120**

|                  |                                                                |              |                       |
|------------------|----------------------------------------------------------------|--------------|-----------------------|
| Review By        | rubina                                                         | Review On    | 12/8/2025 12:58:40 PM |
| Supervise By     | Iwona                                                          | Supervise On | 12/8/2025 1:04:43 PM  |
| SubDirectory     | LB138120                                                       | Test         | Anions                |
| <b>STD. NAME</b> | <b>STD REF.#</b>                                               |              |                       |
| ICAL Standard    | WP115865,WP115866,WP115867,WP115868,WP115869,WP115870,WP115871 |              |                       |
| ICV Standard     | WP115872                                                       |              |                       |
| CCV Standard     | WP115917                                                       |              |                       |
| ICSA Standard    | N/A                                                            |              |                       |
| CRI Standard     | N/A                                                            |              |                       |
| LCS Standard     | WP115916                                                       |              |                       |
| Chk Standard     | WP115873,WP115874                                              |              |                       |

| Sr# | SampleId    | ClientID    | QcType | Date           | Comment                      | Operator | Status |
|-----|-------------|-------------|--------|----------------|------------------------------|----------|--------|
| 1   | STD1        | STD1        | CAL1   | 12/01/25 11:48 | All standards, samples, and  | RM/IZ    | OK     |
| 2   | STD2        | STD2        | CAL2   | 12/01/25 12:09 | QC are filtered through      | RM/IZ    | OK     |
| 3   | STD3        | STD3        | CAL3   | 12/01/25 12:52 | 0.45um, filter lot W3160     | RM/IZ    | OK     |
| 4   | STD4        | STD4        | CAL4   | 12/01/25 13:13 |                              | RM/IZ    | OK     |
| 5   | STD5        | STD5        | CAL5   | 12/01/25 13:35 |                              | RM/IZ    | OK     |
| 6   | STD6        | STD6        | CAL6   | 12/01/25 13:57 |                              | RM/IZ    | OK     |
| 7   | STD7        | STD7        | CAL7   | 12/01/25 14:18 |                              | RM/IZ    | OK     |
| 8   | ICV1        | ICV1        | ICV    | 12/01/25 14:40 |                              | RM/IZ    | OK     |
| 9   | ICB1        | ICB1        | ICB    | 12/01/25 14:58 |                              | RM/IZ    | OK     |
| 10  | CCV1        | CCV1        | CCV    | 12/04/25 09:17 |                              | RM/IZ    | OK     |
| 11  | CCB1        | CCB1        | CCB    | 12/04/25 09:38 |                              | RM/IZ    | OK     |
| 12  | LB138120BLW | LB138120BLW | MB     | 12/04/25 10:00 |                              | RM/IZ    | OK     |
| 13  | LB138120BSW | LB138120BSW | LCS    | 12/04/25 10:53 |                              | RM/IZ    | OK     |
| 14  | Q3778-01    | SW-2        | SAM    | 12/04/25 12:32 |                              | RM/IZ    | OK     |
| 15  | Q3778-01MS  | SW-2MS      | MS     | 12/04/25 12:56 | 9.5ml of sample, 0.5mL W3096 | RM/IZ    | OK     |
| 16  | Q3778-01MSD | SW-2MSD     | MSD    | 12/04/25 13:27 | 9.5ml of sample, 0.5mL W3096 | RM/IZ    | OK     |
| 17  | Q3777-01    | SW-1        | SAM    | 12/04/25 13:50 |                              | RM/IZ    | OK     |
| 18  | CCV2        | CCV2        | CCV    | 12/04/25 14:34 |                              | RM/IZ    | OK     |

**Instrument ID:** IC-1

**Daily Analysis Runlog For Sequence/QC Batch ID # LB138120**

| Review By     | rubina                                                         | Review On    | 12/8/2025 12:58:40 PM |
|---------------|----------------------------------------------------------------|--------------|-----------------------|
| Supervise By  | Iwona                                                          | Supervise On | 12/8/2025 1:04:43 PM  |
| SubDirectory  | LB138120                                                       | Test         | Anions                |
| STD. NAME     | STD REF.#                                                      |              |                       |
| ICAL Standard | WP115865,WP115866,WP115867,WP115868,WP115869,WP115870,WP115871 |              |                       |
| ICV Standard  | WP115872                                                       |              |                       |
| CCV Standard  | WP115917                                                       |              |                       |
| ICSA Standard | N/A                                                            |              |                       |
| CRI Standard  | N/A                                                            |              |                       |
| LCS Standard  | WP115916                                                       |              |                       |
| Chk Standard  | WP115873,WP115874                                              |              |                       |

|    |      |      |     |                |  |       |    |
|----|------|------|-----|----------------|--|-------|----|
| 19 | CCB2 | CCB2 | CCB | 12/04/25 14:57 |  | RM/IZ | OK |
|----|------|------|-----|----------------|--|-------|----|

**Instrument ID:** KONELAB

**Daily Analysis Runlog For Sequence/QC Batch ID # LB138131**

|                  |                                     |              |                      |
|------------------|-------------------------------------|--------------|----------------------|
| Review By        | rubina                              | Review On    | 12/5/2025 4:29:39 PM |
| Supervise By     | Iwona                               | Supervise On | 12/5/2025 4:31:34 PM |
| SubDirectory     | LB138131                            | Test         | TKN                  |
| <b>STD. NAME</b> | <b>STD REF.#</b>                    |              |                      |
| ICAL Standard    | WP115952                            |              |                      |
| ICV Standard     | WP115954                            |              |                      |
| CCV Standard     | WP115953                            |              |                      |
| ICSA Standard    | N/A                                 |              |                      |
| CRI Standard     | N/A                                 |              |                      |
| LCS Standard     | WP115955                            |              |                      |
| Chk Standard     | WP115821,WP114133,WP113929,WP114132 |              |                      |

| Sr# | SampleId    | ClientID   | QcType | Date           | Comment | Operator | Status |
|-----|-------------|------------|--------|----------------|---------|----------|--------|
| 1   | 0.0PPM      | 0.0PPM     | CAL1   | 12/05/25 13:08 |         | rubina   | OK     |
| 2   | 0.5PPM      | 0.5PPM     | CAL2   | 12/05/25 13:08 |         | rubina   | OK     |
| 3   | 1.0PPM      | 1.0PPM     | CAL3   | 12/05/25 13:08 |         | rubina   | OK     |
| 4   | 2.5PPM      | 2.5PPM     | CAL4   | 12/05/25 13:08 |         | rubina   | OK     |
| 5   | 5.0PPM      | 5.0PPM     | CAL5   | 12/05/25 13:08 |         | rubina   | OK     |
| 6   | 6.7PPM      | 6.7PPM     | CAL6   | 12/05/25 13:08 |         | rubina   | OK     |
| 7   | 10.0PPM     | 10.0PPM    | CAL7   | 12/05/25 13:08 |         | rubina   | OK     |
| 8   | ICV1        | ICV1       | ICV    | 12/05/25 14:00 |         | rubina   | OK     |
| 9   | ICB1        | ICB1       | ICB    | 12/05/25 14:01 |         | rubina   | OK     |
| 10  | CCV1        | CCV1       | CCV    | 12/05/25 14:01 |         | rubina   | OK     |
| 11  | CCB1        | CCB1       | CCB    | 12/05/25 14:01 |         | rubina   | OK     |
| 12  | RL          | RL         | LOQ    | 12/05/25 14:01 |         | rubina   | OK     |
| 13  | PB170831BL  | PB170831BL | MB     | 12/05/25 14:11 |         | rubina   | OK     |
| 14  | PB170831BS  | PB170831BS | LCS    | 12/05/25 14:11 |         | rubina   | OK     |
| 15  | Q3728-01    | SW-1       | SAM    | 12/05/25 14:11 |         | rubina   | OK     |
| 16  | Q3728-01DUP | SW-1DUP    | DUP    | 12/05/25 14:11 |         | rubina   | OK     |
| 17  | Q3728-01MS  | SW-1MS     | MS     | 12/05/25 14:11 |         | rubina   | OK     |
| 18  | Q3728-01MSD | SW-1MSD    | MSD    | 12/05/25 14:11 |         | rubina   | OK     |

Instrument ID: KONELAB

**Daily Analysis Runlog For Sequence/QC Batch ID # LB138131**

|                  |                                     |              |                      |
|------------------|-------------------------------------|--------------|----------------------|
| Review By        | rubina                              | Review On    | 12/5/2025 4:29:39 PM |
| Supervise By     | Iwona                               | Supervise On | 12/5/2025 4:31:34 PM |
| SubDirectory     | LB138131                            | Test         | TKN                  |
| <b>STD. NAME</b> | <b>STD REF.#</b>                    |              |                      |
| ICAL Standard    | WP115952                            |              |                      |
| ICV Standard     | WP115954                            |              |                      |
| CCV Standard     | WP115953                            |              |                      |
| ICSA Standard    | N/A                                 |              |                      |
| CRI Standard     | N/A                                 |              |                      |
| LCS Standard     | WP115955                            |              |                      |
| Chk Standard     | WP115821,WP114133,WP113929,WP114132 |              |                      |

|    |          |      |     |                |  |        |    |
|----|----------|------|-----|----------------|--|--------|----|
| 19 | Q3734-01 | SW-1 | SAM | 12/05/25 14:22 |  | rubina | OK |
| 20 | Q3734-02 | SW-2 | SAM | 12/05/25 14:22 |  | rubina | OK |
| 21 | Q3777-01 | SW-1 | SAM | 12/05/25 14:22 |  | rubina | OK |
| 22 | CCV2     | CCV2 | CCV | 12/05/25 14:22 |  | rubina | OK |
| 23 | CCB2     | CCB2 | CCB | 12/05/25 14:22 |  | rubina | OK |
| 24 | Q3778-01 | SW-2 | SAM | 12/05/25 14:22 |  | rubina | OK |
| 25 | CCV3     | CCV3 | CCV | 12/05/25 14:22 |  | rubina | OK |
| 26 | CCB3     | CCB3 | CCB | 12/05/25 14:27 |  | rubina | OK |

**Instrument ID:** SPECTROPHOTOMETER-1

**Daily Analysis Runlog For Sequence/QC Batch ID # LB138132**

|                  |                                                                                             |              |                      |
|------------------|---------------------------------------------------------------------------------------------|--------------|----------------------|
| Review By        | Iwona                                                                                       | Review On    | 12/5/2025 2:53:20 PM |
| Supervise By     | jignesh                                                                                     | Supervise On | 12/5/2025 2:59:51 PM |
| SubDirectory     | LB138132                                                                                    | Test         | Phosphorus-Total     |
| <b>STD. NAME</b> | <b>STD REF.#</b>                                                                            |              |                      |
| 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     | WP115969,WP115968,WP115967,WP115966,WP115965,WP115964,WP115970,WP115340,WP115974,WP115975,V |              |                      |

| Sr# | SampleId   | ClientID   | QcType | Date           | Comment | Operator | Status |
|-----|------------|------------|--------|----------------|---------|----------|--------|
| 1   | CAL1       | CAL1       | CAL    | 12/05/25 13:40 |         | Iwona    | OK     |
| 2   | CAL2       | CAL2       | CAL    | 12/05/25 13:40 |         | Iwona    | OK     |
| 3   | CAL3       | CAL3       | CAL    | 12/05/25 13:41 |         | Iwona    | OK     |
| 4   | CAL4       | CAL4       | CAL    | 12/05/25 13:41 |         | Iwona    | OK     |
| 5   | CAL5       | CAL5       | CAL    | 12/05/25 13:42 |         | Iwona    | OK     |
| 6   | CAL6       | CAL6       | CAL    | 12/05/25 13:42 |         | Iwona    | OK     |
| 7   | ICV        | ICV        | ICV    | 12/05/25 13:43 |         | Iwona    | OK     |
| 8   | ICB        | ICB        | ICB    | 12/05/25 13:43 |         | Iwona    | OK     |
| 9   | CCV1       | CCV1       | CCV    | 12/05/25 13:44 |         | Iwona    | OK     |
| 10  | CCB1       | CCB1       | CCB    | 12/05/25 13:44 |         | Iwona    | OK     |
| 11  | RL Check   | RL Check   | RL     | 12/05/25 13:45 |         | Iwona    | OK     |
| 12  | PB170844BL | PB170844BL | MB     | 12/05/25 13:45 |         | Iwona    | OK     |
| 13  | PB170844BS | PB170844BS | LCS    | 12/05/25 13:46 |         | Iwona    | OK     |
| 14  | Q3728-01   | SW-1       | SAM    | 12/05/25 13:46 |         | Iwona    | OK     |
| 15  | Q3729-01   | 1          | SAM    | 12/05/25 13:47 |         | Iwona    | OK     |
| 16  | Q3734-01   | SW-1       | SAM    | 12/05/25 13:47 |         | Iwona    | OK     |
| 17  | Q3734-02   | SW-2       | SAM    | 12/05/25 13:48 |         | Iwona    | OK     |
| 18  | Q3772-01   | EFFLUENT   | SAM    | 12/05/25 13:48 |         | Iwona    | OK     |

**Instrument ID:** SPECTROPHOTOMETER-1

**Daily Analysis Runlog For Sequence/QC Batch ID # LB138132**

|                  |                                                                                             |              |                      |
|------------------|---------------------------------------------------------------------------------------------|--------------|----------------------|
| Review By        | Iwona                                                                                       | Review On    | 12/5/2025 2:53:20 PM |
| Supervise By     | jignesh                                                                                     | Supervise On | 12/5/2025 2:59:51 PM |
| SubDirectory     | LB138132                                                                                    | Test         | Phosphorus-Total     |
| <b>STD. NAME</b> | <b>STD REF.#</b>                                                                            |              |                      |
| 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     | WP115969,WP115968,WP115967,WP115966,WP115965,WP115964,WP115970,WP115340,WP115974,WP115975,V |              |                      |

|    |             |         |     |                |  |       |    |
|----|-------------|---------|-----|----------------|--|-------|----|
| 19 | Q3777-01    | SW-1    | SAM | 12/05/25 13:49 |  | Iwona | OK |
| 20 | Q3778-01    | SW-2    | SAM | 12/05/25 13:49 |  | Iwona | OK |
| 21 | Q3778-01DUP | SW-2DUP | DUP | 12/05/25 13:50 |  | Iwona | OK |
| 22 | CCV2        | CCV2    | CCV | 12/05/25 13:50 |  | Iwona | OK |
| 23 | CCB2        | CCB2    | CCB | 12/05/25 13:51 |  | Iwona | OK |
| 24 | Q3778-01MS  | SW-2MS  | MS  | 12/05/25 13:51 |  | Iwona | OK |
| 25 | Q3778-01MSD | SW-2MSD | MSD | 12/05/25 13:52 |  | Iwona | OK |
| 26 | CCV3        | CCV3    | CCV | 12/05/25 13:52 |  | Iwona | OK |
| 27 | CCB3        | CCB3    | CCB | 12/05/25 13:53 |  | Iwona | OK |

**Instrument ID:** WC SC-3

**Daily Analysis Runlog For Sequence/QC Batch ID # LB138150**

|                  |                                                           |              |                       |
|------------------|-----------------------------------------------------------|--------------|-----------------------|
| Review By        | jignesh                                                   | Review On    | 12/8/2025 12:52:51 PM |
| Supervise By     | Iwona                                                     | Supervise On | 12/8/2025 1:29:53 PM  |
| SubDirectory     | LB138150                                                  | Test         | Oil and Grease        |
| <b>STD. NAME</b> | <b>STD REF.#</b>                                          |              |                       |
| 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,EP2665,WP115016,N/A,N/A,WP115017,N/A,WP115018 |              |                       |

| Sr# | SampleId   | ClientID               | QcType | Date           | Comment | Operator | Status |
|-----|------------|------------------------|--------|----------------|---------|----------|--------|
| 1   | LB138150BL | LB138150BL             | MB     | 12/08/25 12:37 |         | jignesh  | OK     |
| 2   | LB138150BS | LB138150BS             | LCS    | 12/08/25 12:37 |         | jignesh  | OK     |
| 3   | Q3760-01   | 001 Willets Pt Blvd (D | SAM    | 12/08/25 12:37 |         | jignesh  | OK     |
| 4   | Q3760-02   | 002 35th Ave (Dec)     | SAM    | 12/08/25 12:37 |         | jignesh  | OK     |
| 5   | Q3772-01   | EFFLUENT               | SAM    | 12/08/25 12:37 |         | jignesh  | OK     |
| 6   | Q3772-02   | Q3772-01MS             | MS     | 12/08/25 12:37 |         | jignesh  | OK     |
| 7   | Q3772-03   | Q3772-01MSD            | MSD    | 12/08/25 12:37 |         | jignesh  | OK     |
| 8   | Q3777-01   | SW-1                   | SAM    | 12/08/25 12:37 |         | jignesh  | OK     |
| 9   | Q3778-01   | SW-2                   | SAM    | 12/08/25 12:37 |         | jignesh  | OK     |
| 10  | Q3785-01   | WATER-TREATMENT        | SAM    | 12/08/25 12:37 |         | jignesh  | OK     |
| 11  | Q3785-02   | Q3785-01MS             | MS     | 12/08/25 12:37 |         | jignesh  | OK     |
| 12  | Q3785-03   | Q3785-01MSD            | MSD    | 12/08/25 12:37 |         | jignesh  | OK     |
| 13  | Q3793-01   | MH-1252025             | SAM    | 12/08/25 12:37 |         | jignesh  | OK     |
| 14  | Q3793-02   | Q3793-01-MS            | MS     | 12/08/25 12:37 |         | jignesh  | OK     |
| 15  | Q3793-03   | Q3793-01-MSD           | MSD    | 12/08/25 12:37 |         | jignesh  | OK     |



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

Instrument ID:

Daily Analysis Runlog For Sequence/QC Batch ID #

|              |              |
|--------------|--------------|
| Review By    | Review On    |
| Supervise By | Supervise On |

| STD. NAME                                                                                                      | STD REF.# |
|----------------------------------------------------------------------------------------------------------------|-----------|
| ICAL Standard<br>ICV Standard<br>CCV Standard<br>ICSA Standard<br>CRI Standard<br>LCS Standard<br>Chk Standard |           |

| Sr# | SampleId | ClientID | QcType | Date | Comment | Operator | Status |
|-----|----------|----------|--------|------|---------|----------|--------|
|     |          |          |        |      |         |          |        |

## Prep Standard - Chemical Standard Summary

**Order ID :** Q3777

**Test :** Anions Group1,Oil and Grease,Phosphorus-Total,TKN,Total Nitrogen,TSS

**Prepbatch ID :** PB170831,PB170844,

**Sequence ID/Qc Batch ID:** LB138118,LB138120,LB138131,LB138132,LB138150,LB138157,

**Standard ID :**

EP2665,WP113878,WP113929,WP114132,WP114133,WP114445,WP115016,WP115017,WP115018,WP115085,WP115086,WP115089,WP115336,WP115340,WP115344,WP115558,WP115559,WP115793,WP115794,WP115817,WP115821,WP115865,WP115866,WP115867,WP115868,WP115869,WP115870,WP115871,WP115872,WP115873,WP115874,WP115916,WP115917,WP115952,WP115953,WP115954,WP115955,WP115964,WP115965,WP115966,WP115967,WP115968,WP115969,WP115970,WP115971,WP115972,WP115973,WP115974,WP115975,

**Chemical ID :**

E3875,E3972,M6069,M6151,M6186,W2306,W2647,W2663,W2664,W2666,W2817,W2871,W2983,W3009,W3035,W3082,W3112,W3113,W3132,W3148,W3163,W3180,W3195,W3196,W3197,W3199,W3202,W3206,W3218,W3222,W3240,W3241,W3243,



| <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 | <a href="#">EP2665</a> | 12/05/2025       | 06/05/2026             | RUPESHKUMAR SHAH   | Extraction_SCALE_2<br>(EX-SC-2) | None             | Riteshkumar Patel<br>12/05/2025 |
| <b><u>FROM</u></b> 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>         |
|--------------------------------------------------------------------------------------------|----------------------|--------------------------|------------------|------------------------|--------------------|-------------------------|------------------|------------------------------|
| 1571                                                                                       | Sodium hydroxide, 1N | <a href="#">WP113878</a> | 07/09/2025       | 12/31/2025             | Iwona Zarych       | WETCHEM_SCALE_7 (WCS-6) | None             | Jignesh Parikh<br>07/09/2025 |
| <b><u>FROM</u></b> 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>       |
|-------------------------------------------------------------------------------------------------------------------|----------------------------|--------------------------|------------------|------------------------|--------------------|---------------------------|------------------|----------------------------|
| 290                                                                                                               | Phenol reagent for Ammonia | <a href="#">WP113929</a> | 07/14/2025       | 12/31/2025             | Rubina Mughal      | WETCHEM_SCALE_8 (WC SC-7) | None             | Iwona Zarych<br>07/15/2025 |
| <b><u>FROM</u></b> 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 | <a href="#">WP114132</a> | 07/31/2025       | 12/31/2025             | Rubina Mughal      | WETCHEM_SCALE_8 (WC SC-7) | None             | Iwona Zarych<br>07/31/2025 |
| <b><u>FROM</u></b> 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 | <a href="#">WP114133</a> | 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> |
|------------------|-----------------------|--------------------------|------------------|------------------------|--------------------|----------------------------------|------------------|----------------------|
| 1338             | TKN DISTILLING BUFFER | <a href="#">WP114445</a> | 08/27/2025       | 12/31/2025             | Rubina Mughal      | WETCHEM_S<br>CALE_8 (WC<br>SC-7) | None             | Iwona Zarych         |
|                  |                       |                          |                  |                        |                    |                                  |                  | 09/03/2025           |

**FROM** 0.47500L of W3112 + 25.00000gram of W3148 + 500.00000gram of W3113 = Final Quantity: 1.000 L

## Wet Chemistry STANDARD PREPARATION LOG

| <u>Recipe ID</u> | <u>NAME</u> | <u>NO.</u>               | <u>Prep Date</u> | <u>Expiration Date</u> | <u>Prepared By</u> | <u>ScaleID</u> | <u>PipetteID</u> | <u>Supervised By</u> |
|------------------|-------------|--------------------------|------------------|------------------------|--------------------|----------------|------------------|----------------------|
| 229              | 1:1 HCL     | <a href="#">WP115016</a> | 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 | <a href="#">WP115017</a> | 10/02/2025       | 04/02/2026             | Jignesh Parikh     | WETCHEM_S<br>CALE_7 (WC<br>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                                                                     | <a href="#">WP115018</a> | 10/02/2025       | 04/02/2026             | Jignesh Parikh     | WETCHEM_SCALE_7 (WCS-6) | None             | Iwona Zarych<br>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) | <a href="#">WP115085</a> | 10/08/2025       | 04/08/2026             | Rubina Mughal      | WETCHEM_SCALE_8 (WC SC-7) | None             | Iwona Zarych<br>10/08/2025 |
| <b><u>FROM</u></b> 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,<br>1000PPM-SS                                          | <a href="#">WP115086</a> | 10/08/2025       | 04/08/2026             | Rubina Mughal      | WETCHEM_S<br>CALE_8 (WC<br>SC-7) | None             | Iwona Zarych<br><br>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>       |
|----------------------------------------------------------------------------------------------|--------------------|--------------------------|------------------|------------------------|--------------------|----------------|------------------|----------------------------|
| 1211                                                                                         | 11 N sulfuric acid | <a href="#">WP115089</a> | 10/08/2025       | 04/08/2026             | Rubina Mughal      | None           | None             | Iwona Zarych<br>10/08/2025 |
| <b><u>FROM</u></b> 306.00000ml of M6186 + 694.00000ml of W3112 = Final Quantity: 1000.000 ml |                    |                          |                  |                        |                    |                |                  |                            |

## Wet Chemistry STANDARD PREPARATION LOG

| <u>Recipe ID</u> | <u>NAME</u>                           | <u>NO.</u>               | <u>Prep Date</u> | <u>Expiration Date</u> | <u>Prepared By</u> | <u>ScaleID</u> | <u>PipetteID</u>          | <u>Supervised By</u>         |
|------------------|---------------------------------------|--------------------------|------------------|------------------------|--------------------|----------------|---------------------------|------------------------------|
| 1597             | 0.04 N H <sub>2</sub> SO <sub>4</sub> | <a href="#">WP115336</a> | 10/27/2025       | 04/27/2026             | Rubina Mughal      | None           | WETCHEM_FIPETTE_3<br>(WC) | Jignesh Parikh<br>10/27/2025 |

**FROM** 1.00000ml of M6186 + 999.00000ml of W3112 = Final Quantity: 1000.000 ml

| <u>Recipe ID</u> | <u>NAME</u>      | <u>NO.</u>               | <u>Prep Date</u> | <u>Expiration Date</u> | <u>Prepared By</u> | <u>ScaleID</u> | <u>PipetteID</u> | <u>Supervised By</u>         |
|------------------|------------------|--------------------------|------------------|------------------------|--------------------|----------------|------------------|------------------------------|
| 126              | 5N sulfuric acid | <a href="#">WP115340</a> | 10/27/2025       | 04/27/2026             | Rubina Mughal      | None           | None             | Jignesh Parikh<br>10/27/2025 |

**FROM** 140.00000ml of M6186 + 860.00000ml of W3112 = Final Quantity: 1.000 L



| <u>Recipe ID</u>                                                                                                     | <u>NAME</u>                    | <u>NO.</u>               | <u>Prep Date</u> | <u>Expiration Date</u> | <u>Prepared By</u> | <u>ScaleID</u>          | <u>PipetteID</u> | <u>Supervised By</u>         |
|----------------------------------------------------------------------------------------------------------------------|--------------------------------|--------------------------|------------------|------------------------|--------------------|-------------------------|------------------|------------------------------|
| 4035                                                                                                                 | IC ELUENT CONCENTRATE FOR IC-1 | <a href="#">WP115344</a> | 10/23/2025       | 04/23/2026             | Iwona Zarych       | WETCHEM_SCALE_5 (WCS-5) | None             | Jignesh Parikh<br>10/28/2025 |
| <b><u>FROM</u></b> 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> |
|---------------------------------------------------------------------------------------------|-------------------------------|--------------------------|------------------|------------------------|--------------------|---------------------------|------------------|----------------------|
| 115                                                                                         | Phosphate Stock Std. (50 ppm) | <a href="#">WP115558</a> | 11/07/2025       | 05/07/2026             | Iwona Zarych       | WETCHEM_SCALE_5 (WC SC-5) | None             | Jignesh Parikh       |
| <b><u>FROM</u></b> 0.11000gram of W3206 + 500.00000ml of W3112 = Final Quantity: 500.000 ml |                               |                          |                  |                        |                    |                           |                  |                      |



| <u>Recipe ID</u>                                                                            | <u>NAME</u>                   | <u>NO.</u>               | <u>Prep Date</u> | <u>Expiration Date</u> | <u>Prepared By</u> | <u>ScaleID</u>            | <u>PipetteID</u> | <u>Supervised By</u> |
|---------------------------------------------------------------------------------------------|-------------------------------|--------------------------|------------------|------------------------|--------------------|---------------------------|------------------|----------------------|
| 2790                                                                                        | Phosphate Stock std, 50PPM-SS | <a href="#">WP115559</a> | 11/07/2025       | 05/07/2026             | Iwona Zarych       | WETCHEM_SCALE_5 (WC SC-5) | None             | Jignesh Parikh       |
| <b><u>FROM</u></b> 0.11000gram of W3202 + 500.00000ml of W3112 = Final Quantity: 500.000 ml |                               |                          |                  |                        |                    |                           |                  |                      |

| <u>Recipe ID</u>                                                                             | <u>NAME</u>                 | <u>NO.</u>               | <u>Prep Date</u> | <u>Expiration Date</u> | <u>Prepared By</u> | <u>ScaleID</u>          | <u>PipetteID</u> | <u>Supervised By</u> |
|----------------------------------------------------------------------------------------------|-----------------------------|--------------------------|------------------|------------------------|--------------------|-------------------------|------------------|----------------------|
| 648                                                                                          | Ammonium molybdate solution | <a href="#">WP115793</a> | 11/21/2025       | 02/11/2026             | Iwona Zarych       | WETCHEM_SCALE_5 (WCS-5) | None             | Jignesh Parikh       |
| <b><u>FROM</u></b> 20.00000gram of W2664 + 480.00000ml of W3112 = Final Quantity: 500.000 ml |                             |                          |                  |                        |                    |                         |                  |                      |



| <u>Recipe ID</u> | <u>NAME</u>                                                              | <u>NO.</u>               | <u>Prep Date</u> | <u>Expiration Date</u> | <u>Prepared By</u> | <u>ScaleID</u>          | <u>PipetteID</u> | <u>Supervised By</u> |
|------------------|--------------------------------------------------------------------------|--------------------------|------------------|------------------------|--------------------|-------------------------|------------------|----------------------|
| 588              | Potassium Antimonyl Tartrate                                             | <a href="#">WP115794</a> | 11/21/2025       | 05/21/2026             | Iwona Zarych       | WETCHEM_SCALE_5 (WCS-5) | None             | Jignesh Parikh       |
| <u>FROM</u>      | 1.37150gram of W2306 + 500.00000ml of W3112 = Final Quantity: 500.000 ml |                          |                  |                        |                    |                         |                  |                      |

| <u>Recipe ID</u>                                                                                                                                | <u>NAME</u>            | <u>NO.</u>               | <u>Prep Date</u> | <u>Expiration Date</u> | <u>Prepared By</u> | <u>ScaleID</u>            | <u>PipetteID</u> | <u>Supervised By</u>       |
|-------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|--------------------------|------------------|------------------------|--------------------|---------------------------|------------------|----------------------------|
| 619                                                                                                                                             | TKN digestion solution | <a href="#">WP115817</a> | 11/24/2025       | 05/24/2026             | Rubina Mughal      | WETCHEM_SCALE_8 (WC SC-7) | None             | Iwona Zarych<br>11/24/2025 |
| <b><u>FROM</u></b> 134.00000gram of W2983 + 134.00000ml of M6186 + 7.30000gram of W3199 + 725.00000ml of W3112 = Final Quantity:<br>1000.000 ml |                        |                          |                  |                        |                    |                           |                  |                            |



| <u>Recipe ID</u>                                                                           | <u>NAME</u>                          | <u>NO.</u>               | <u>Prep Date</u> | <u>Expiration Date</u> | <u>Prepared By</u> | <u>ScaleID</u>          | <u>PipetteID</u> | <u>Supervised By</u>       |
|--------------------------------------------------------------------------------------------|--------------------------------------|--------------------------|------------------|------------------------|--------------------|-------------------------|------------------|----------------------------|
| 740                                                                                        | sodium nitroferricyanide for ammonia | <a href="#">WP115821</a> | 11/25/2025       | 12/25/2025             | Rubina Mughal      | WETCHEM_SCALE_5 (WCS-5) | None             | Iwona Zarych<br>11/25/2025 |
| <b><u>FROM</u></b> 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>         |
|--------------------------------------------------------------------|----------------------------------------|--------------------------|------------------|------------------------|--------------------|----------------|------------------|------------------------------|
| 2487                                                               | Anions 300/9056 calibration standard 1 | <a href="#">WP115865</a> | 12/01/2025       | 12/02/2025             | Iwona Zarych       | None           | None             | Jignesh Parikh<br>12/01/2025 |
| <b><u>FROM</u></b> 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 | <a href="#">WP115866</a> | 12/01/2025       | 12/02/2025             | Iwona Zarych       | None           | WETCHEM_PIPETTE_3<br>(WC) | Jignesh Parikh<br>12/01/2025 |
| <b><u>FROM</u></b> 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 | <a href="#">WP115867</a> | 12/01/2025       | 12/02/2025             | Iwona Zarych       | None           | WETCHEM_PIPETTE_3<br>(WC) | Jignesh Parikh<br>12/01/2025 |
| <b><u>FROM</u></b> 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 | <a href="#">WP115868</a> | 12/01/2025       | 12/02/2025             | Iwona Zarych       | None           | WETCHEM_F<br>IPETTE_3<br>(WC) | Jignesh Parikh<br><br>12/01/2025 |
| <b>FROM</b> 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 | <a href="#">WP115869</a> | 12/01/2025       | 12/02/2025             | Iwona Zarych       | None           | WETCHEM_F<br>IPETTE_3<br>(WC) | Jignesh Parikh<br><br>12/01/2025 |
| <b>FROM</b> 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 | <a href="#">WP115870</a> | 12/01/2025       | 12/02/2025             | Iwona Zarych       | None           | WETCHEM_PIPETTE_3<br>(WC) | Jignesh Parikh<br>12/01/2025 |
| <b><u>FROM</u></b> 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 | <a href="#">WP115871</a> | 12/01/2025       | 12/02/2025             | Iwona Zarych       | None           | WETCHEM_PIPETTE_3<br>(WC) | Jignesh Parikh<br>12/01/2025 |
| <b><u>FROM</u></b> 2.50000ml of W3180 + 7.50000ml of W3112 = Final Quantity: 10.000 ml |                                        |                          |                  |                        |                    |                |                           |                              |



| <u>Recipe ID</u>                                                     | <u>NAME</u>                 | <u>NO.</u>               | <u>Prep Date</u> | <u>Expiration Date</u> | <u>Prepared By</u> | <u>ScaleID</u> | <u>PipetteID</u>  | <u>Supervised By</u> |
|----------------------------------------------------------------------|-----------------------------|--------------------------|------------------|------------------------|--------------------|----------------|-------------------|----------------------|
| 3233                                                                 | Anions 300/9056 ICV-LCS std | <a href="#">WP115872</a> | 12/01/2025       | 12/02/2025             | Iwona Zarych       | None           | WETCHEM_PIPETTE_3 | Jignesh Parikh       |
| <u>FROM</u>                                                          |                             | (WC)                     |                  |                        |                    |                |                   |                      |
| 45.00000ml of W3112 + 5.00000ml of W3197 = Final Quantity: 50.000 ml |                             |                          |                  |                        |                    |                |                   |                      |

| <u>Recipe ID</u> | <u>NAME</u>                                                                  | <u>NO.</u>               | <u>Prep Date</u> | <u>Expiration Date</u> | <u>Prepared By</u> | <u>ScaleID</u> | <u>PipetteID</u>  | <u>Supervised By</u> |
|------------------|------------------------------------------------------------------------------|--------------------------|------------------|------------------------|--------------------|----------------|-------------------|----------------------|
| 4036             | IC ELUENT FOR IC-1                                                           | <a href="#">WP115873</a> | 12/01/2025       | 01/01/2026             | Iwona Zarych       | None           | WETCHEM_PIPETTE_3 | Jignesh Parikh       |
| (WC)             |                                                                              |                          |                  |                        |                    |                |                   |                      |
| <u>FROM</u>      | 1980.00000ml of W3112 + 20.00000ml of WP115344 = Final Quantity: 2000.000 ml |                          |                  |                        |                    |                |                   |                      |

| <u>Recipe ID</u> | <u>NAME</u>       | <u>NO.</u>               | <u>Prep Date</u> | <u>Expiration Date</u> | <u>Prepared By</u> | <u>ScaleID</u> | <u>PipetteID</u>  | <u>Supervised By</u>         |
|------------------|-------------------|--------------------------|------------------|------------------------|--------------------|----------------|-------------------|------------------------------|
| 4037             | IC H2SO4 FOR IC-1 | <a href="#">WP115874</a> | 12/01/2025       | 01/01/2026             | Iwona Zarych       | None           | WETCHEM_PIPETTE_3 | Jignesh Parikh<br>12/01/2025 |

|                    |                                                                         |      |
|--------------------|-------------------------------------------------------------------------|------|
| <b><u>FROM</u></b> | 5.60000ml of M6186 + 994.40000ml of W3112 = Final Quantity: 1000.000 ml | (WC) |
|--------------------|-------------------------------------------------------------------------|------|

| <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 | <a href="#">WP115916</a> | 12/04/2025       | 12/05/2025             | Rubina Mughal      | None           | WETCHEM_FIPETTE_3 | Iwona Zarych<br>12/05/2025 |

| FROM                                                                 | (WC) |
|----------------------------------------------------------------------|------|
| 45.00000ml of W3112 + 5.00000ml of W3197 = Final Quantity: 50.000 ml |      |



| <u>Recipe ID</u>                                                     | <u>NAME</u>                                | <u>NO.</u>               | <u>Prep Date</u> | <u>Expiration Date</u> | <u>Prepared By</u> | <u>ScaleID</u> | <u>PipetteID</u>  | <u>Supervised By</u> |
|----------------------------------------------------------------------|--------------------------------------------|--------------------------|------------------|------------------------|--------------------|----------------|-------------------|----------------------|
| 3680                                                                 | Anions 300/9056 calibration standard 5-CCV | <a href="#">WP115917</a> | 12/04/2025       | 12/05/2025             | Rubina Mughal      | None           | WETCHEM_PIPETTE_3 | Iwona Zarych         |
| <u>FROM</u>                                                          |                                            | (WC)                     |                  |                        |                    |                |                   |                      |
| 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> |
|--------------------------------------------------------------------------------------------------------|------------------------------|--------------------------|------------------|------------------------|--------------------|----------------|-------------------|----------------------|
| 295                                                                                                    | TKN Calibration Std (10 ppm) | <a href="#">WP115952</a> | 12/05/2025       | 12/12/2025             | Rubina Mughal      | None           | WETCHEM_PIPETTE_3 | Iwona Zarych         |
| <p>(WC)</p> <p><b>FROM</b> 49.50000ml of W3112 + 0.50000ml of WP115085 = Final Quantity: 50.000 ml</p> |                              |                          |                  |                        |                    |                |                   |                      |



| <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 | <a href="#">WP115953</a> | 12/05/2025       | 12/12/2025             | Rubina Mughal      | None           | WETCHEM_PIPETTE_3<br>(WC) | Iwona Zarych<br>12/05/2025 |
| <b><u>FROM</u></b> 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 | <a href="#">WP115954</a> | 12/05/2025       | 12/12/2025             | Rubina Mughal      | None           | WETCHEM_PIPETTE_3 | Iwona Zarych         |
| <p>(WC)</p> <p><b>FROM</b> 49.75000ml of W3112 + 0.25000ml of WP115086 = Final Quantity: 50.000 ml</p> |                   |                          |                  |                        |                    |                |                   |                      |

## 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>           |
|------------------|-------------------|--------------------------|------------------|------------------------|--------------------|----------------|-------------------------------|--------------------------------|
| 298              | TKN LCS STD 5 ppm | <a href="#">WP115955</a> | 12/05/2025       | 12/12/2025             | Rubina Mughal      | None           | WETCHEM_F<br>IPETTE_3<br>(WC) | Iwona Zarych<br><br>12/05/2025 |

**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>             |
|------------------|------------------------|--------------------------|------------------|------------------------|--------------------|----------------|------------------|----------------------------------|
| 122              | calibration std. 0 ppm | <a href="#">WP115964</a> | 12/05/2025       | 12/12/2025             | Iwona Zarych       | None           | None             | Jignesh Parikh<br><br>12/05/2025 |

**FROM** 100.00000ml of W3112 = Final Quantity: 100.000 ml

## Wet Chemistry STANDARD PREPARATION LOG

| <u>Recipe ID</u>                                                                     | <u>NAME</u>                         | <u>NO.</u>               | <u>Prep Date</u> | <u>Expiration Date</u> | <u>Prepared By</u> | <u>ScaleID</u> | <u>PipetteID</u>              | <u>Supervised By</u>             |
|--------------------------------------------------------------------------------------|-------------------------------------|--------------------------|------------------|------------------------|--------------------|----------------|-------------------------------|----------------------------------|
| 121                                                                                  | calibration std. phosphate 0.05 ppm | <a href="#">WP115965</a> | 12/05/2025       | 12/12/2025             | Iwona Zarych       | None           | WETCHEM_F<br>IPETTE_3<br>(WC) | Jignesh Parikh<br><br>12/05/2025 |
| <b>FROM</b> 99.90000ml of W3112 + 0.10000ml of WP115558 = Final Quantity: 100.000 ml |                                     |                          |                  |                        |                    |                |                               |                                  |

| <u>Recipe ID</u>                                                                     | <u>NAME</u>                        | <u>NO.</u>               | <u>Prep Date</u> | <u>Expiration Date</u> | <u>Prepared By</u> | <u>ScaleID</u> | <u>PipetteID</u>              | <u>Supervised By</u>             |
|--------------------------------------------------------------------------------------|------------------------------------|--------------------------|------------------|------------------------|--------------------|----------------|-------------------------------|----------------------------------|
| 120                                                                                  | calibration std. phosphate 0.1 ppm | <a href="#">WP115966</a> | 12/05/2025       | 12/12/2025             | Iwona Zarych       | None           | WETCHEM_F<br>IPETTE_3<br>(WC) | Jignesh Parikh<br><br>12/05/2025 |
| <b>FROM</b> 99.80000ml of W3112 + 0.20000ml of WP115558 = Final Quantity: 100.000 ml |                                    |                          |                  |                        |                    |                |                               |                                  |



| <u>Recipe ID</u>                                                                            | <u>NAME</u>                        | <u>NO.</u>               | <u>Prep Date</u> | <u>Expiration Date</u> | <u>Prepared By</u> | <u>ScaleID</u> | <u>PipetteID</u>          | <u>Supervised By</u>         |
|---------------------------------------------------------------------------------------------|------------------------------------|--------------------------|------------------|------------------------|--------------------|----------------|---------------------------|------------------------------|
| 119                                                                                         | calibration std. phosphate 0.3 ppm | <a href="#">WP115967</a> | 12/05/2025       | 12/12/2025             | Iwona Zarych       | None           | WETCHEM_PIPETTE_3<br>(WC) | Jignesh Parikh<br>12/05/2025 |
| <b><u>FROM</u></b> 99.40000ml of W3112 + 0.60000ml of WP115558 = Final Quantity: 100.000 ml |                                    |                          |                  |                        |                    |                |                           |                              |

| <u>Recipe ID</u>                                                                            | <u>NAME</u>                        | <u>NO.</u>               | <u>Prep Date</u> | <u>Expiration Date</u> | <u>Prepared By</u> | <u>ScaleID</u> | <u>PipetteID</u>          | <u>Supervised By</u>         |
|---------------------------------------------------------------------------------------------|------------------------------------|--------------------------|------------------|------------------------|--------------------|----------------|---------------------------|------------------------------|
| 118                                                                                         | calibration std. phosphate 0.5 ppm | <a href="#">WP115968</a> | 12/05/2025       | 12/12/2025             | Iwona Zarych       | None           | WETCHEM_PIPETTE_3<br>(WC) | Jignesh Parikh<br>12/05/2025 |
| <b><u>FROM</u></b> 99.00000ml of W3112 + 1.00000ml of WP115558 = Final Quantity: 100.000 ml |                                    |                          |                  |                        |                    |                |                           |                              |

## Wet Chemistry STANDARD PREPARATION LOG

| <u>Recipe ID</u>                                                                     | <u>NAME</u>                      | <u>NO.</u>               | <u>Prep Date</u> | <u>Expiration Date</u> | <u>Prepared By</u> | <u>ScaleID</u> | <u>PipetteID</u>              | <u>Supervised By</u>             |
|--------------------------------------------------------------------------------------|----------------------------------|--------------------------|------------------|------------------------|--------------------|----------------|-------------------------------|----------------------------------|
| 117                                                                                  | calibration std. phosphate 1 ppm | <a href="#">WP115969</a> | 12/05/2025       | 12/12/2025             | Iwona Zarych       | None           | WETCHEM_F<br>IPETTE_3<br>(WC) | Jignesh Parikh<br><br>12/05/2025 |
| <b>FROM</b> 98.00000ml of W3112 + 2.00000ml of WP115558 = Final Quantity: 100.000 ml |                                  |                          |                  |                        |                    |                |                               |                                  |

| <u>Recipe ID</u>                                                                     | <u>NAME</u>        | <u>NO.</u>               | <u>Prep Date</u> | <u>Expiration Date</u> | <u>Prepared By</u> | <u>ScaleID</u> | <u>PipetteID</u>              | <u>Supervised By</u>             |
|--------------------------------------------------------------------------------------|--------------------|--------------------------|------------------|------------------------|--------------------|----------------|-------------------------------|----------------------------------|
| 124                                                                                  | phosphate CCV std. | <a href="#">WP115970</a> | 12/05/2025       | 12/12/2025             | Iwona Zarych       | None           | WETCHEM_F<br>IPETTE_3<br>(WC) | Jignesh Parikh<br><br>12/05/2025 |
| <b>FROM</b> 99.00000ml of W3112 + 1.00000ml of WP115558 = Final Quantity: 100.000 ml |                    |                          |                  |                        |                    |                |                               |                                  |

## Wet Chemistry STANDARD PREPARATION LOG

| <u>Recipe ID</u>                                                                     | <u>NAME</u>           | <u>NO.</u>               | <u>Prep Date</u> | <u>Expiration Date</u> | <u>Prepared By</u> | <u>ScaleID</u> | <u>PipetteID</u>              | <u>Supervised By</u>             |
|--------------------------------------------------------------------------------------|-----------------------|--------------------------|------------------|------------------------|--------------------|----------------|-------------------------------|----------------------------------|
| 3805                                                                                 | Phosphate ICV-LCS Std | <a href="#">WP115971</a> | 12/05/2025       | 12/12/2025             | Iwona Zarych       | None           | WETCHEM_F<br>IPETTE_3<br>(WC) | Jignesh Parikh<br><br>12/05/2025 |
| <b>FROM</b> 99.00000ml of W3112 + 1.00000ml of WP115559 = Final Quantity: 100.000 ml |                       |                          |                  |                        |                    |                |                               |                                  |

| <u>Recipe ID</u>                                                                     | <u>NAME</u>        | <u>NO.</u>               | <u>Prep Date</u> | <u>Expiration Date</u> | <u>Prepared By</u> | <u>ScaleID</u> | <u>PipetteID</u>              | <u>Supervised By</u>             |
|--------------------------------------------------------------------------------------|--------------------|--------------------------|------------------|------------------------|--------------------|----------------|-------------------------------|----------------------------------|
| 4212                                                                                 | Phosphate RL CHECK | <a href="#">WP115972</a> | 12/05/2025       | 12/12/2025             | Iwona Zarych       | None           | WETCHEM_F<br>IPETTE_3<br>(WC) | Jignesh Parikh<br><br>12/05/2025 |
| <b>FROM</b> 99.80000ml of W3112 + 0.20000ml of WP115558 = Final Quantity: 100.000 ml |                    |                          |                  |                        |                    |                |                               |                                  |



| <u>Recipe ID</u>                                                                          | <u>NAME</u>   | <u>NO.</u>               | <u>Prep Date</u> | <u>Expiration Date</u> | <u>Prepared By</u> | <u>ScaleID</u>          | <u>PipetteID</u> | <u>Supervised By</u> |
|-------------------------------------------------------------------------------------------|---------------|--------------------------|------------------|------------------------|--------------------|-------------------------|------------------|----------------------|
| 590                                                                                       | Ascorbic Acid | <a href="#">WP115973</a> | 12/05/2025       | 12/06/2025             | Iwona Zarych       | WETCHEM_SCALE_5 (WCS-5) | None             | Jignesh Parikh       |
| <b><u>FROM</u></b> 0.52800gram of W3243 + 30.00000ml of W3112 = Final Quantity: 30.000 ml |               |                          |                  |                        |                    |                         |                  |                      |

| <u>Recipe ID</u>                                                                                                                                    | <u>NAME</u>      | <u>NO.</u>               | <u>Prep Date</u> | <u>Expiration Date</u> | <u>Prepared By</u> | <u>ScaleID</u> | <u>PipetteID</u>   | <u>Supervised By</u>         |
|-----------------------------------------------------------------------------------------------------------------------------------------------------|------------------|--------------------------|------------------|------------------------|--------------------|----------------|--------------------|------------------------------|
| 658                                                                                                                                                 | Combined reagent | <a href="#">WP115974</a> | 12/05/2025       | 12/06/2025             | Iwona Zarych       | None           | Glass<br>Pipette-A | Jignesh Parikh<br>12/05/2025 |
| <b><u>FROM</u></b> 15.00000ml of WP115793 + 30.00000ml of WP115973 + 5.00000ml of WP115794 + 50.00000ml of WP115340 = Final Quantity:<br>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>         |
|-------------------------------------------------------------------------------------------|---------------------------|--------------------------|------------------|------------------------|--------------------|----------------|------------------|------------------------------|
| 1213                                                                                      | Phenolphthalein indicator | <a href="#">WP115975</a> | 12/05/2025       | 06/05/2026             | Iwona Zarych       | None           | None             | Jignesh Parikh<br>12/05/2025 |
| <b><u>FROM</u></b> 50.00000ml of W3112 + 50.00000ml of W3218 = Final Quantity: 100.000 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 # |
|-----------------------------|----------------------------------------------|---------|-----------------|-------------------------|-----------------------------|----------------|
| 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          |

| 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. | A1561-500GM / POTASSIUM ANTIMONY TARTRATE TRIHYDRATE, 500G | 2GH0057 | 12/11/2027      | 12/11/2017 / apatel     | 12/11/2017 / apatel         | W2306          |

## CHEMICAL RECEIPT LOG BOOK

| 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. | P1060-10 / PHENOL, ACS, 500G | 2HD0179 | 01/27/2030      | 01/27/2020 / apatel     | 01/27/2020 / apatel         | W2663          |

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

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

| Supplier                    | ItemCode / ItemName               | Lot #   | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|-----------------------------|-----------------------------------|---------|-----------------|-------------------------|-----------------------------|----------------|
| PCI Scientific Supply, Inc. | 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          |

## 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 # |
|-----------------------------|--------------------------------------------------|----------|-----------------|-------------------------|-----------------------------|----------------|
| PCI Scientific Supply, Inc. | BDH0214-500G / Ammonium Persulfate Crystal, 500g | MKCR9319 | 06/30/2028      | 03/05/2024 / lwona      | 06/06/2023 / lwona          | W3035          |

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

| Supplier         | ItemCode / ItemName | Lot #               | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|------------------|---------------------|---------------------|-----------------|-------------------------|-----------------------------|----------------|
| 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          |

## CHEMICAL RECEIPT LOG BOOK

| 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. | J3946-1 / Sodium Thiosulfate Pentahydrate, 500 gms | MK CW3077 | 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. | 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 # |
|--------------------|------------------------------------------------------|--------------|-----------------|-------------------------|-----------------------------|----------------|
| 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. | 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 # |
|-----------------------------|-------------------------------------------------|-----------|-----------------|-------------------------|-----------------------------|----------------|
| PCI Scientific Supply, Inc. | J3246-1 / POTAS PHOSPHATE, MONO, CRY, ACS, 500G | MK CW6723 | 10/31/2028      | 04/16/2025 / lwona      | 04/16/2025 / lwona          | W3202          |

| Supplier                    | ItemCode / ItemName                             | Lot #     | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|-----------------------------|-------------------------------------------------|-----------|-----------------|-------------------------|-----------------------------|----------------|
| PCI Scientific Supply, Inc. | J3246-1 / POTAS PHOSPHATE, MONO, CRY, ACS, 500G | MK CX1379 | 01/31/2029      | 04/29/2025 / lwona      | 04/29/2025 / lwona          | W3206          |

| Supplier                    | ItemCode / ItemName          | Lot #      | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|-----------------------------|------------------------------|------------|-----------------|-------------------------|-----------------------------|----------------|
| PCI Scientific Supply, Inc. | PC16721-3 / Isopropanol, 99% | 25C1161072 | 03/04/2029      | 06/26/2025 / lwona      | 06/26/2025 / lwona          | W3218          |

| Supplier                    | ItemCode / ItemName                  | Lot #   | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|-----------------------------|--------------------------------------|---------|-----------------|-------------------------|-----------------------------|----------------|
| PCI Scientific Supply, Inc. | J9416-1 / Sodium Hypochlorite 500 ml | 2506M51 | 12/31/2025      | 07/02/2025 / lwona      | 07/02/2025 / lwona          | W3222          |

### CHEMICAL RECEIPT LOG BOOK

| 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          |

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



# CERTIFICATE OF ANALYSIS

Printed: 12/8/2017

Page 1 of 1

Customer No : 30017  
Order Number : 3008126  
Catalog : A1561

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

Customer PO : 6035343  
Lot : 2GH0057

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

Formula Weight : 667.87

W2306  
received  
12/11/17  
AB

## Test

Limit  
Min. Max.

## Results

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

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

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

Certificate of Analysis Results Certified By:

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

(ammonium heptamolybdate, tetrahydrate)



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

## Certificate of Analysis

Meets ACS Reagent Chemical Requirements,

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

For Laboratory, Research or Manufacturing Use  
Meets Reagent Specifications for testing USP/NF monographs

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

*James Ethier*  
Jamie Ethier  
Vice President Global Quality

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

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 <sub>3</sub> ) (dried basis)     | 99.7 – 100.3 % | 100.1   |
| Insoluble Matter                              | <= 0.015 %     | < 0.002 |
| Chloride (Cl)                                 | <= 0.003 %     | 0.003   |
| Phosphate (PO <sub>4</sub> )                  | <= 0.001 %     | 0.001   |
| Sulfur Compounds (as SO <sub>4</sub> )        | <= 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 <sub>4</sub> )                   | <= 5 ppm       | 5       |
| Trace Impurities – ACS – Heavy Metals (as Pb) | <= 5 ppm       | 5       |

For Laboratory, Research or Manufacturing Use  
Meets Reagent Specifications for testing USP/NF monographs

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

  
Jamie Ethier  
Vice President Global Quality

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 <sub>6</sub> H <sub>6</sub> O     | Molecular Weight | 94.11   |

| Test                                     | Specification |        | Result      |
|------------------------------------------|---------------|--------|-------------|
|                                          | min           | max    |             |
| ASSAY (C <sub>6</sub> H <sub>5</sub> 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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This is to certify that units of the lot number above were tested and found to comply with the specifications of the grade listed. Certain data have been supplied by third parties. Thermo Fisher Scientific expressly disclaims all warranties, expressed or implied, including the implied warranties of merchantability and fitness for a particular purpose. Products are for research use or further manufacturing. Not for direct administration to humans or animals. It is the responsibility of the purchaser, formulator or those performing further manufacturing to determine suitability based upon the intended use of the end product. Products are tested to meet the analytical requirements of the noted grade. The above information is the actual analytical results obtained.

W2817

REC. 04/02/2021

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

**CAS Number:** 57-11-4  
**Molecular Formula:** C<sub>18</sub>H<sub>36</sub>O<sub>2</sub>  
**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.*

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

Product Name:

**Certificate of Analysis****Potassium sulfate - ReagentPlus® , ≥99.0%**

**Product Number:** P0772  
**Batch Number:** SLCM9788  
**Brand:** SIGALD  
**CAS Number:** 7778-80-5  
**MDL Number:** MFCD00011388  
**Formula:** K<sub>2</sub>O<sub>4</sub>S  
**Formula Weight:** 174.26 g/mol  
**Quality Release Date:** 03 MAR 2022



| Test                               | Specification | Result    |
|------------------------------------|---------------|-----------|
| Appearance (Color)                 | White         | White     |
| Appearance (Form)                  | Powder        | Powder    |
| Solubility (Color)                 | Colorless     | Colorless |
| Solubility (Turbidity)             | Clear         | Clear     |
| 10 g plus 150 mL, H <sub>2</sub> 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](http://Sigma-Aldrich.com). For further inquiries, please contact Technical Service. Purchaser must determine the suitability of the product for its particular use. See reverse side of invoice or packing slip for additional terms and conditions of sale.



W3009  
rec. 2/27/2023 12

Product Name:

Hexadecane - ReagentPlus®, 99%

## Certificate of Analysis

Product Number:

H6703

Batch Number:

SHBP8192

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

Brand:

SIAL

CAS Number:

544-76-3

MDL Number:

MFCD00008998

Formula:

C16H34

Formula Weight:

226.44 g/mol

Quality Release Date:

04 AUG 2022

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

  
Larry Coers, Director

Quality Control

Sheboygan Falls, WI US

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



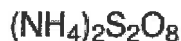
W 3035  
rec. 6/6/23 12

Product Name:

## Certificate of Analysis

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

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



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

  
Larry Coers, Director  
Quality Control  
Milwaukee, WI US

Sigma-Aldrich warrants, that at the time of the quality release or subsequent retest date this product conformed to the information contained in this publication. The current Specification sheet may be available at [Sigma-Aldrich.com](http://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.





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

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

# CERTIFICATE OF ANALYSIS

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

| TEST                                     | SPECIFICATIONS | LOT VALUES  |
|------------------------------------------|----------------|-------------|
| Assay (Na <sub>2</sub> SO <sub>4</sub> ) | 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 <sub>4</sub> )             | 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 <sub>3</sub> ) <sub>2</sub> 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 <sub>2</sub> 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



## 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 <sub>2</sub> ) | ≤ 0.5 ppm     | < 0.5 ppm   |
| Phosphate (PO <sub>4</sub> )              | ≤ 0.05 ppm    | < 0.03 ppm  |
| Sulfate (SO <sub>4</sub> )                | ≤ 0.5 ppm     | < 0.3 ppm   |
| Sulfite (SO <sub>3</sub> )                | ≤ 0.8 ppm     | 0.3 ppm     |
| Ammonium (NH <sub>4</sub> )               | ≤ 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

 **avantor**™

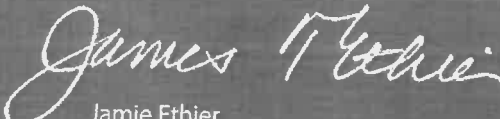


Material No.: 9530-33  
Batch No.: 22G2862015

| Test | Specification | Result |
|------|---------------|--------|
|------|---------------|--------|

For Laboratory, Research, or Manufacturing Use  
Product Information (not specifications):  
Appearance (clear, fuming liquid)  
Meets ACS Specifications  
Storage Condition: Store below 25 °C.

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

  
Jamie Ethier  
Vice President Global Quality

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

avantor™



MG186

Reciev Date :- 08/06/25

Material No.: 9673-33  
Batch No.: 23D2462010  
Manufactured Date: 2023-03-22  
Retest Date: 2028-03-20  
Revision No.: 0

## Certificate of Analysis

| Test                                                         | Specification | Result      |
|--------------------------------------------------------------|---------------|-------------|
| ACS - Assay (H <sub>2</sub> SO <sub>4</sub> )                | 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 <sub>2</sub> ) | ≤ 2 ppm       | < 2 ppm     |
| Ammonium (NH <sub>4</sub> )                                  | ≤ 1 ppm       | 1 ppm       |
| Chloride (Cl)                                                | ≤ 0.1 ppm     | < 0.1 ppm   |
| Nitrate (NO <sub>3</sub> )                                   | ≤ 0.2 ppm     | < 0.1 ppm   |
| Phosphate (PO <sub>4</sub> )                                 | ≤ 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)    | $\leq 500.0$ ppb | 5.4 ppb     |
| Trace Impurities – Strontium (Sr) | $\leq 5.0$ ppb   | $< 0.2$ ppb |
| Trace Impurities – Tin (Sn)       | $\leq 5.0$ ppb   | $< 0.8$ ppb |
| Trace Impurities – Zinc (Zn)      | $\leq 5.0$ 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

# 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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**ThermoFisher**  
S C I E N T I F I C



# 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 <sub>10</sub> H <sub>14</sub> N <sub>2</sub> Na <sub>2</sub> O <sub>8</sub> •2H <sub>2</sub> O | Molecular Weight | 372.24    |

| TEST                                                           | SPECIFICATION                                         |             | RESULT                                                |
|----------------------------------------------------------------|-------------------------------------------------------|-------------|-------------------------------------------------------|
|                                                                | MIN                                                   | MAX         |                                                       |
| ASSAY (DRIED BASIS)                                            | 99.0                                                  | 101.0 %     | 99.5 %                                                |
| pH OF A 5% SOLUTION @ 25°C                                     | 4.0                                                   | 6.0         | 4.6                                                   |
| LOSS ON DRYING                                                 | 8.7                                                   | 11.4 %      | 8.90 %                                                |
| CALCIUM (Ca)                                                   | NO PRECIPITATE IS FORMED                              |             | NO PRECIPITATE IS FORMED                              |
| ELEMENTAL IMPURITIES:                                          |                                                       |             | .                                                     |
| NICKEL (Ni)                                                    | AS REPORTED                                           |             | <0.3 ppm                                              |
| CHROMIUM (Cr)                                                  | AS REPORTED                                           |             | <0.3 ppm                                              |
| NITRILOTRIACETIC ACID[n[(HOCOCH <sub>2</sub> ) <sub>3</sub> 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.**

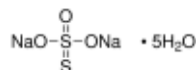
The Elemental Impurities standards implemented by USP and other Pharmaceutical Compendia reflect a growing understanding of the toxicology of trace levels of elemental impurities that can remain in drug substances originating from either raw materials or manufacturing processes. Identifying and quantifying 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.

## 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:** Na<sub>2</sub>O<sub>3</sub>S<sub>2</sub> · 5H<sub>2</sub>O  
**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 <sub>4</sub> ) | ≤ 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](http://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.





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<sub>2</sub>CO<sub>3</sub>  
Molecular Mass 105.99

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

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

Internal ID #: 710

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



Refine your results. Redefine your industry.

# Certificate of Analysis

300 Technology Drive  
Christiansburg, VA 24073 USA  
inorganicventures.com

P: 800-669-6799/540-585-3030  
F: 540-585-3012  
info@inorganicventures.com

## 1.0 ACCREDITATION / REGISTRATION

**INORGANIC VENTURES** is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).



## 2.0 PRODUCT DESCRIPTION

Product Code: Multi Analyte Ion Chromatography Solution  
Catalog Number: 300-CAL-A  
Lot Number: V2-MEB742616  
Matrix: H<sub>2</sub>O  
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 <sub>3</sub> -   | 25.00 ± 0.10 µg/mL |
| Nitrite as N, NNO <sub>2</sub> - | 30.00 ± 0.10 µg/mL | o-Phosphate as P, PPO <sub>4</sub> | 50.00 ± 0.18 µg/mL |
| Sulfate, SO <sub>4</sub>         | 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](http://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](http://inorganicventures.com); [info@inorganicventures.com](mailto: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



# 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 <sub>4</sub> 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

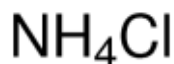
| Signature                                                                                                                                                                                                                                                                                                 |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

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 <sub>3</sub> | ≥ 99.5 %                       | 100.2 %   |
| pH                             | 4.5 - 5.5                      | 4.9       |
| @ 25 Deg c (5% Solution)       |                                |           |
| Insoluble Matter               | ≤ 0.005 %                      | 0.001 %   |
| 10%, H <sub>2</sub> 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 <sub>4</sub> )   | ≤ 2 ppm                        | < 2 ppm   |
| Sulfate (SO <sub>4</sub> )     | ≤ 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](http://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](http://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                                                                                                                                   |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>We certify that this batch conforms to the specifications listed above.</p> <p>This document has been electronically produced and is valid without a signature.</p> <p>Leona Edwardson, Quality Control Sr. Manager - Solon<br/>           VWR Chemicals, LLC.<br/>           28600 Fountain Parkway, Solon OH 44139 USA</p> | <p>Analysis may have been rounded to significant digits in specification limits</p> <p>Product meets analytical specifications of the grades listed.</p> |

W3202 Received on 4/16/25 by IZ

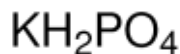
Website: [www.sigmaaldrich.com](http://www.sigmaaldrich.com)Email USA: [techserv@sial.com](mailto:techserv@sial.com)Outside USA: [eurtechserv@sial.com](mailto:eurtechserv@sial.com)

## Certificate of Analysis

Product Name:

Potassium phosphate monobasic - ACS reagent, ≥99.0%

**Product Number:** P0662  
**Batch Number:** MKCW6723  
**Brand:** SIGALD  
**CAS Number:** 7778-77-0  
**MDL Number:** MFCD00011401  
**Formula:** H<sub>2</sub>KO<sub>4</sub>P  
**Formula Weight:** 136.09 g/mol  
**Quality Release Date:** 16 OCT 2024  
**Recommended Retest Date:** OCT 2028



| Test                       | Specification      | Result    |
|----------------------------|--------------------|-----------|
| Appearance (Color)         | White              | White     |
| Appearance (Form)          | Powder or Crystals | Crystals  |
| Assay                      | ≥ 99.0 %           | 99.8 %    |
| Insoluble Matter           | ≤ 0.01 %           | < 0.01 %  |
| Loss on Drying             | ≤ 0.2 %            | < 0.1 %   |
| At 105°C                   |                    |           |
| pH                         | 4.1 - 4.5          | 4.5       |
| (c = 5%, 25 deg C)         |                    |           |
| Chloride Content           | ≤ 0.001 %          | < 0.001 % |
| Sulfate (SO <sub>4</sub> ) | ≤ 0.003 %          | < 0.003 % |
| Heavy Metals               | ≤ 0.001 %          | < 0.001 % |
| by ICP                     |                    |           |
| Iron (Fe)                  | ≤ 0.002 %          | < 0.001 % |
| Sodium (Na)                | ≤ 0.005 %          | < 0.001 % |
| Recommended Retest Period  | -----              | -----     |
| 4 Years                    |                    |           |



Larry Coers, Director  
Quality Control  
Milwaukee, WI US

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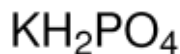


## Certificate of Analysis

Product Name:

Potassium phosphate monobasic - ACS reagent, ≥99.0%

**Product Number:** P0662  
**Batch Number:** MKCX1379  
**Brand:** SIGALD  
**CAS Number:** 7778-77-0  
**MDL Number:** MFCD00011401  
**Formula:** H<sub>2</sub>KO<sub>4</sub>P  
**Formula Weight:** 136.09 g/mol  
**Quality Release Date:** 27 JAN 2025  
**Recommended Retest Date:** JAN 2029



| Test                       | Specification      | Result    |
|----------------------------|--------------------|-----------|
| Appearance (Color)         | White              | White     |
| Appearance (Form)          | Powder or Crystals | Crystals  |
| Assay                      | ≥ 99.0 %           | 99.9 %    |
| Insoluble Matter           | ≤ 0.01 %           | < 0.01 %  |
| Loss on Drying             | ≤ 0.2 %            | < 0.1 %   |
| At 105°C                   |                    |           |
| pH                         | 4.1 - 4.5          | 4.5       |
| (c = 5%, 25 deg C)         |                    |           |
| Chloride Content           | ≤ 0.001 %          | < 0.001 % |
| Sulfate (SO <sub>4</sub> ) | ≤ 0.003 %          | < 0.003 % |
| Heavy Metals               | ≤ 0.001 %          | < 0.001 % |
| by ICP                     |                    |           |
| Iron (Fe)                  | ≤ 0.002 %          | < 0.001 % |
| Sodium (Na)                | ≤ 0.005 %          | < 0.001 % |
| Recommended Retest Period  | -----              | -----     |
| 4 Years                    |                    |           |



Larry Coers, Director  
Quality Control  
Milwaukee, WI US

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|                           |                                      |
|---------------------------|--------------------------------------|
| Material                  | BDH1133-4LP                          |
| Material Description      | Isopropyl Alcohol                    |
| Lot                       | 25C1161072                           |
| Expires end of            | 2029-Mar-04                          |
| CAS Number                | 67-63-0                              |
| Molecular formula         | (CH <sub>3</sub> ) <sub>2</sub> CHOH |
| Molecular mass            | 0                                    |
| Last Quality Control      | 2025-Mar-24                          |
| Date of manufacture       | 2025-Mar-05                          |
| Made in                   | United States                        |
| Manufacturer Source Batch | US20TK1770                           |

## Additional information

| Characteristics                                       | Specifications | Measured values |
|-------------------------------------------------------|----------------|-----------------|
| ACS - Assay (CH <sub>3</sub> CHOHCH <sub>3</sub> )    | >= 99.5 %      | 100.0 %         |
| ACS - Color (APHA)                                    | <= 10          | <5              |
| ACS - Residue after Evaporation                       | <= 0.001 %     | <0.001 %        |
| ACS - Solubility in H <sub>2</sub> O                  | Passes Test    | Passes Test     |
| ACS - Titrable Acid or Base (meq/g)                   | <= 0.0001      | <0.0001         |
| ACS - Water (H <sub>2</sub> O)(by Karl Fischer titrn) | <= 0.2 %       | <0.1 %          |
| Appearance (Clear, colorless liquid)                  | Passes Test    | Passes Test     |
| Carbonyl Compounds - Acetone                          | <= 0.002 %     | <0.001 %        |
| Carbonyl Compounds - Propionaldehyde                  | <= 0.002 %     | <0.001 %        |

## Signature

We certify that this batch conforms to the specifications listed above.

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

Michelle Bales - Sr. Manager Quality Assurance  
Avantor Performance Materials, LLC

For Professional use in Laboratory or Manufacturing. Not for use as an Active Pharmaceutical Ingredient or Food or Animal Feed. Suitability and intended use of the product remains the responsibility of the user.

VWR International LLC, Radnor Corporate Center, Building One, Suite 200, 100 Matsonford Road, Radnor, PA 19087, USA.

VWR International bv, Haasrode Research Park Zone 2020, Geldenaaksebaan 464, 3001 Leuven, Belgium

BDH1133- 25C1161072 Page 1 / 1

# 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 <sub>2</sub>   | 5.17 % (w/w) Cl <sub>2</sub> | 136       |

| Specification           | Reference         |
|-------------------------|-------------------|
| Sodium Hypochlorite, 5% | APHA (4500-NH3 F) |
| Sodium Hypochlorite     | ASTM (D 4785)     |

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

| Part Number | Size / Package Type | Shelf Life (Unopened Container) |
|-------------|---------------------|---------------------------------|
| 7495.5-1    | 4 L black poly      | 6 months                        |
| 7495.5-16   | 500 mL amber poly   | 6 months                        |
| 7495.5-32   | 1 L amber poly      | 6 months                        |

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

Jose Pena (06/18/2025)  
Operations Manager

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

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

 **avantors<sup>TM</sup>**



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)           | $\leq 5$       | 1           |
| ECD Sensitive Impurities (as HeptachlorEpoxide) Single Peak (pg/mL)            | $\leq 10$      | 6           |
| ECD-Sensitive Impurities (as EthyleneDibromide) - Single Impurity Peak (ng/mL) | $\leq 5$       | 4           |
| Assay (Total Saturated C <sub>6</sub> 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)                                                                   | $\leq 10$      | 10          |
| Residue after Evaporation                                                      | $\leq 1.0$ ppm | 0.2 ppm     |
| Substances Darkened by H <sub>2</sub> SO <sub>4</sub>                          | 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

W3243 Received on 10/3/25 by IZ

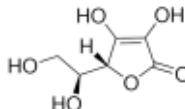
Website: [www.sigmaaldrich.com](http://www.sigmaaldrich.com)Email USA: [techserv@sial.com](mailto:techserv@sial.com)Outside USA: [eurtechserv@sial.com](mailto:eurtechserv@sial.com)

## Certificate of Analysis

Product Name:

L-Ascorbic acid - ACS reagent, ≥99%

**Product Number:** 255564  
**Batch Number:** MKCX1143  
**Brand:** SIAL  
**CAS Number:** 50-81-7  
**MDL Number:** MFCD00064328  
**Formula:** C<sub>6</sub>H<sub>8</sub>O<sub>6</sub>  
**Formula Weight:** 176.12 g/mol  
**Quality Release Date:** 17 JAN 2025  
**Recommended Retest Date:** JAN 2028



| Test                                     | Specification                            | Result    |
|------------------------------------------|------------------------------------------|-----------|
| Appearance (Color)                       | White                                    | White     |
| Appearance (Form)                        | Powder or Crystals or Granules or Chunks | Powder    |
| Infrared Spectrum                        | Conforms to Structure                    | Conforms  |
| Optical Rotation<br>(+ ); c = 10%; Water | 20.5 - 21.5 deg                          | 21.0 deg  |
| Titration by Iodine                      | ≥ 99.0 %                                 | 100.0 %   |
| Residue on Ignition                      | ≤ 0.10 %                                 | 0.02 %    |
| Iron (Fe)                                | ≤ 0.001 %                                | < 0.001 % |
| Heavy Metals<br>by ICP-OES               | ≤ 0.002 %                                | 0.001 %   |
| Recommended Retest Period<br>3 Years     | -----                                    | -----     |
| Meets ACS Requirements                   | Current ACS Specification                | Conforms  |

Larry Coers, Director  
Quality Control  
Milwaukee, WI US

Sigma-Aldrich warrants, that at the time of the quality release or subsequent retest date this product conformed to the information contained in this publication. The current Specification sheet may be available at [Sigma-Aldrich.com](http://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.





# SHIPPING DOCUMENTS

CLIENT INFORMATION

CLIENT PROJECT INFORMATION

CLIENT BILLING INFORMATION

REPORT TO BE SENT TO:

COMPANY: Durham School Service  
ADDRESS: 2202 S. Market St. Elizabeth  
CITY: Elizabethtown STATE: PA ZIP: 02801  
ATTENTION: Staci. Bruce @alliantg.com  
PHONE: \_\_\_\_\_ FAX: \_\_\_\_\_

PROJECT NAME: CSC #4155 6420  
PROJECT NO.: AEC-2026-0013 LOCATION: PA  
PROJECT MANAGER: \_\_\_\_\_  
e-mail: \_\_\_\_\_  
PHONE: \_\_\_\_\_ FAX: \_\_\_\_\_

BILL TO: \_\_\_\_\_ PO#: \_\_\_\_\_  
ADDRESS: \_\_\_\_\_  
CITY: \_\_\_\_\_ STATE: \_\_\_\_\_ ZIP: \_\_\_\_\_  
ATTENTION: \_\_\_\_\_ PHONE: \_\_\_\_\_

ANALYSIS

DATA TURNAROUND INFORMATION

DATA DELIVERABLE INFORMATION

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

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

Oil & Grease  
TSS  
Total Phosphorous  
Total Nitrogen

PRESERVATIVES

COMMENTS

| ALLIANCE<br>SAMPLE<br>ID | PROJECT<br>SAMPLE IDENTIFICATION | SAMPLE<br>MATRIX | SAMPLE<br>TYPE |      | SAMPLE<br>COLLECTION |         | # OF BOTTLES |   |   |   |   |   |   |   |   |   | COMMENTS   |
|--------------------------|----------------------------------|------------------|----------------|------|----------------------|---------|--------------|---|---|---|---|---|---|---|---|---|------------|
|                          |                                  |                  | COMP           | GRAB | DATE                 | TIME    |              | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |            |
| 1.                       | SW-1                             | SW               |                | X    | 12/2/25              | 4:30 PM | 6            | 1 | 1 | 1 | 1 |   |   |   |   |   | Low Volume |
| 2.                       |                                  |                  |                |      |                      |         |              |   |   |   |   |   |   |   |   |   |            |
| 3.                       |                                  |                  |                |      |                      |         |              |   |   |   |   |   |   |   |   |   |            |
| 4.                       |                                  |                  |                |      |                      |         |              |   |   |   |   |   |   |   |   |   |            |
| 5.                       |                                  |                  |                |      |                      |         |              |   |   |   |   |   |   |   |   |   |            |
| 6.                       |                                  |                  |                |      |                      |         |              |   |   |   |   |   |   |   |   |   |            |
| 7.                       |                                  |                  |                |      |                      |         |              |   |   |   |   |   |   |   |   |   |            |
| 8.                       |                                  |                  |                |      |                      |         |              |   |   |   |   |   |   |   |   |   |            |
| 9.                       |                                  |                  |                |      |                      |         |              |   |   |   |   |   |   |   |   |   |            |
| 10.                      |                                  |                  |                |      |                      |         |              |   |   |   |   |   |   |   |   |   |            |

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

|                          |                           |                                 |                                                                                                                                                                           |
|--------------------------|---------------------------|---------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| RELINQUISHED BY SAMPLER: | DATE/TIME: <u>12/4/25</u> | RECEIVED BY: <u>[Signature]</u> | Conditions of bottles or coolers at receipt: <input type="checkbox"/> COMPLIANT <input type="checkbox"/> NON COMPLIANT <input type="checkbox"/> COOLER TEMP <u>34°</u> °C |
| 1.                       |                           | 1.                              | Comments: <u>It's good!</u>                                                                                                                                               |
| RELINQUISHED BY SAMPLER: | DATE/TIME:                | RECEIVED BY:                    |                                                                                                                                                                           |
| 2.                       |                           | 2.                              |                                                                                                                                                                           |
| RELINQUISHED BY SAMPLER: | DATE/TIME:                | RECEIVED BY:                    |                                                                                                                                                                           |
| 3.                       |                           | 3.                              |                                                                                                                                                                           |

Page \_\_\_\_\_ of \_\_\_\_\_

CLIENT: ☐ Hand Delivered ☐ Other

Shipment Complete

☐ YES ☐ NO

### Laboratory Certification

| Certified By    | License No.      |
|-----------------|------------------|
|                 |                  |
| Connecticut     | PH-0830          |
|                 |                  |
| DOD ELAP (ANAB) | L2219            |
|                 |                  |
| Maine           | 2024021          |
|                 |                  |
| Maryland        | 296              |
|                 |                  |
| New Hampshire   | 255425           |
|                 |                  |
| New Jersey      | 20012            |
|                 |                  |
| New York        | 11376            |
|                 |                  |
| Pennsylvania    | 68-00548         |
|                 |                  |
| Soil Permit     | 525-24-234-08441 |
|                 |                  |
| Texas           | TX-C25-00189     |
|                 |                  |
| Virginia        | 460312           |