

Cover Page

- **Order ID :** Q2149
- **Project ID :** Waste Characterization
 - **Client :** Aramark Uniforms

Lab Sample Number

Q2149-01

Client Sample Number

FILTER-CAKE

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

Signature :

Date: 6/3/2025

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012



DATA REPORTING QUALIFIERS- INORGANIC

For reporting results, the following " Results Qualifiers" are used:

| J | Indicates the reported value was obtained from a reading that was less than the Contract Required Detection Limit (CRDL), but greater than or equal to the Instrument Detection Limit (IDL). |
|---------|--|
| U | Indicates the analyte was analyzed for, but not detected. |
| ND | Indicates the analyte was analyzed for, but not detected |
| Ε | Indicates the reported value is estimated because of the presence of interference |
| Μ | Indicates Duplicate injection precision not met. |
| Ν | Indicates the spiked sample recovery is not within control limits. |
| S | Indicates the reported value was determined by the Method of Standard Addition (MSA). |
| * | Indicates that the duplicate analysis is not within control limits. |
| + | Indicates the correlation coefficient for the MSA is less than 0.995. |
| D | Indicates the reported value is from a secondary analysis with a dilution factor. The original analysis exceeded the calibration range. |
| M OR | Method qualifiers "P" for ICP instrument "PM" for ICP when Microwave Digestion is used "CV" for Manual Cold Vapor AA "AV" for automated Cold Vapor AA "AV" for automated Cold Vapor AA "CA" for MIDI-Distillation Spectrophotometric "AS" for Semi – Automated Spectrophotometric "C" for Manual Spectrophotometric "T" for Titrimetric "NR" for analyte not required to be analyzed Indicates the analyte's concentration exceeds the calibrated range of the instrument for that specific analysis. |
| Q | Indicates the LCS did not meet the control limits requirements |
| Н | Sample Analysis Out Of Hold Time |



APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: Q2149

Completed

| For thorough review, the report must have the following: | |
|--|----------|
| GENERAL: | |
| Are all original paperwork present (chain of custody, record of communication,airbill, sample management lab chronicle, login page) | <u> </u> |
| Check chain-of-custody for proper relinquish/return of samples | |
| Is the chain of custody signed and complete | <u> </u> |
| Check internal chain-of-custody for proper relinquish/return of samples /sample extracts | <u> </u> |
| Collect information for each project id from server. Were all requirements followed | <u> </u> |
| COVER PAGE: | |
| Do numbers of samples correspond to the number of samples in the Chain of Custody on login page | <u> </u> |
| Do lab numbers and client Ids on cover page agree with the Chain of Custody | <u> </u> |
| CHAIN OF CUSTODY: | |
| Do requested analyses on Chain of Custody agree with form I results | <u> </u> |
| Do requested analyses on Chain of Custody agree with the log-in page | <u> </u> |
| Were the correct method log-in for analysis according to the Analytical Request and Chain of Castody | |
| Were the samples received within hold time | <u> </u> |
| Were any problems found with the samples at arrival recorded in the Sample Management Laboratory Chronicle | <u> </u> |
| ANALYTICAL: | |
| Was method requirement followed? | <u> </u> |
| Was client requirement followed? | <u> </u> |
| Does the case narrative summarize all QC failure? | |
| All runlogs and manual integration are reviewed for requirements | <u> </u> |
| All manual calculations and /or hand notations verified | <u> </u> |



LAB CHRONICLE

| OrderID: Client: Contact: | Q2149 Aramark Uniforms Jarrod Mills | | | OrderDate: Project: Location: | 5/28/2025 1:31 Waste Charact L31 | | | |
|---------------------------------|---|--------|------------------|-------------------------------------|--|-----------|-------------------|----------|
| LabID | ClientID | Matrix | Test | Method | Sample Date | Prep Date | Anal Date | Received |
| Q2149-01 | FILTER-CAKE | SOIL | | | 05/28/25 10:05 | | | 05/28/25 |
| | | | Corrosivity | 9045D | | | 05/29/25 14:50 | |
| | | | Ignitability | 1030 | | | 05/28/25 16:15 | |
| | | | Reactive Cyanide | 9012B | | 05/30/25 | 05/30/25 13:54 | |
| | | | Reactive Sulfide | 9034 | | 05/30/25 | 05/30/25 16:45 | |







Report of Analysis

| Client: | Ara | mark U | niforn | ns | | | Date Collected: | 05/28/25 1 | 0:05 |
|-------------------|-------|----------|--------|--------|------------|-------|-----------------|----------------|----------|
| Project: | Was | ste Char | acteri | zation | | | Date Received: | 05/28/25 | |
| Client Sample ID: | FIL | TER-CA | 4KE | | | ; | SDG No.: | Q2149 | |
| Lab Sample ID: | Q21 | 49-01 | | | | | Matrix: | SOIL | |
| | | | | | | | % Solid: | 59.5 | |
| Parameter | Conc. | Qua. | DF | MDL | LOQ / CRQL | Units | Prep Date | Date Ana. | Ana Met. |
| Corrosivity | 5.24 | Н | 1 | 0 | 0 | pН | | 05/29/25 14:50 | 9045D |
| Ignitability | NO | | 1 | 0 | 0 | oC | | 05/28/25 16:15 | 1030 |
| Reactive Cyanide | 0.012 | J | 1 | 0.0083 | 0.049 | mg/Kg | 05/30/25 08:50 | 05/30/25 13:54 | 9012B |
| Reactive Sulfide | 3.19 | T | 1 | 0.20 | 10.0 | mg/Kg | 05/30/25 14:35 | 05/30/25 16:45 | 9034 |

Comments: pH result reported at temperature 21.6 °C

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

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



<u>QC RESULT</u> <u>SUMMARY</u>



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

Initial and Continuing Calibration Verification

| | mark Uniforms ste Characteriza | | | | | SDG No.: Q2149 RunNo.: LB1359 | 949 |
|---------------------------|-----------------------------------|-------|--------|------------|---------------|--|------------------|
| Analyte | | Units | Result | True Value | % Recovery | Acceptance Window (%R) | Analysis Date |
| Sample ID: corrosivity | ICV | рН | 7.02 | 7 | 100 | 90-110 | 05/29/2025 |
| Sample ID: Corrosivity | CCV1 | рН | 2.01 | 2.00 | 101 | 90-110 | 05/29/2025 |
| Sample ID: corrosivity | CCV2 | рН | 12.02 | 12.00 | 100 | 90-110 | 05/29/2025 |



Initial and Continuing Calibration Verification

| Client: Project: | Aramark Uniforms Waste Characteriza | | | | | SDG No.: Q2149 RunNo.: LB1359 | 66 |
|---------------------|--|-------|--------|------------|---------------|--|------------------|
| Analyte | | Units | Result | True Value | % Recovery | Acceptance Window (%R) | Analysis Date |
| Sample ID: | ICV1 | | | | | | |
| Reactive | Cyanide | mg/L | 0.092 | 0.099 | 93 | 85-115 | 05/30/2025 |
| Sample ID: | CCV1 | | | | | | |
| Reactive | Cyanide | mg/L | 0.25 | 0.25 | 100 | 90-110 | 05/30/2025 |
| Sample ID: | CCV2 | | | | | | |
| Reactive | Cyanide | mg/L | 0.25 | 0.25 | 100 | 90-110 | 05/30/2025 |
| Sample ID: | CCV3 | | | | | | |
| Reactive | Cyanide | mg/L | 0.26 | 0.25 | 104 | 90-110 | 05/30/2025 |



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

| Client: Project: | Aramark Uni Waste Charac | | | | | SDG N RunNo | | 66 |
|------------------------|-----------------------------|-------|--------|----------------------|--------------|----------------|-------|------------------|
| Analyte | | Units | Result | Acceptance Limits | Conc Qual | MDL | RDL | Analysis Date |
| Sample ID: Reactive | ICB1 Cyanide | mg/L | 0.0016 | 0.0025 | J | 0.00096 | 0.005 | 05/30/2025 |
| Sample ID: Reactive | CCB1 Cyanide | mg/L | 0.0014 | 0.0025 | J | 0.00096 | 0.005 | 05/30/2025 |
| Sample ID: Reactive | CCB2 Cyanide | mg/L | 0.0015 | 0.0025 | J | 0.00096 | 0.005 | 05/30/2025 |
| Sample ID: Reactive | CCB3 Cyanide | mg/L | 0.0015 | 0.0025 | J | 0.00096 | 0.005 | 05/30/2025 |

Initial and Continuing Calibration Blank Summary



Preparation Blank Summary

| Client: | Aramark Uniform | 15 | | | | SDG No.: | Q2149 | |
|------------------------|----------------------------|-------------|----------|----------------------|--------------|----------|-------|------------------|
| Project: | Waste Characteriz | zation | | | | | | |
| Analyte | | Units | Result | Acceptance Limits | Conc Qual | MDL | RDL | Analysis Date |
| Sample ID: Reactive | PB168189 Cyanide | BL mg/Kg | 0.013 | 0.0250 | J | 0.0084 | 0.05 | 05/30/2025 |
| Sample ID: Reactive | PB168193 Sulfide | BL mg/Kg | < 5.0000 | 5.0000 | U | 0.201 | 10 | 05/30/2025 |



Duplicate Sample Summary

| nitability | oC | +/-20 | NO | NO | | 1 | 0 | | 05/28/202 |
|------------|------------------------|---------------------|------------------|---------------------|--------------------|--------------------|------------|------|------------------|
| ıalyte | Units | Acceptance Limit | Sample Result | Duplicate Result | Conc. Qualifier | Dilution Factor | RPD/ AD | Qual | Analysis Date |
| Client ID: | TP03-MHMDUP | | | Percent Sol | ids for Spil | ke Sample: | | .6 | |
| Project: | Waste Characterization | | | Sample ID: | Ç | 2128-01 | | | |
| Client: | Aramark Uniforms | | | SDG No.: | Q2 | 149 | | | |



Duplicate Sample Summary

| Client ID: | ELI-46-36-25-58-53DU | Р | | | Percent Sol | ids for Spil | ce Sample: | 10 | 0 | |
|------------|----------------------|---|--|--|-------------|--------------|------------|----|---|--|
| Project: | | | | | | | | | | |
| Client: | Aramark Uniforms | | | | SDG No.: | Q2 | 149 | | | |



Duplicate Sample Summary

| Corrosivity | рН | +/-20 | 6.03 | 6.04 | | 1 | 0.17 | | 05/29/202 |
|-------------|------------------------|---------------------|------------------|---------------------|--------------------|--------------------|------------|------|------------------|
| nalyte | Units | Acceptance Limit | Sample Result | Duplicate Result | Conc. Qualifier | Dilution Factor | RPD/ AD | Qual | Analysis Date |
| Client ID: | WC-1DUP | | | Percent Sol | ids for Spi | ke Sample: | 10 | 0 | |
| Project: | Waste Characterization | | | Sample ID: | Ç | 2151-04 | | | |
| Client: | Aramark Uniforms | | | SDG No.: | Q2 | 149 | | | |



RAW DATA



Analytical Summary Report

| Analysis Method: | 1030 | Reviewed By: | Eman |
|------------------|--------------|-----------------------|-------|
| Parameter: | Ignitability | Supervisor Review By: | Iwona |
| Run Number: | LB135939 | | |
| | | | |

| Seq | LabID | ClientID | DF | matrix | Result Status | Burning Rate | Anal Date | Anal Time |
|-----|-------------|--------------------|----|--------|------------------|-----------------|------------|----------------|
| 1 | Q2128-01 | TP03-MHM | 1 | Solid | NO | 0.00 | 05/28/2025 | 14:45 |
| 2 | Q2128-01DUP | TP03-MHMDUP | 1 | Solid | NO | 0.00 | 05/28/2025 | 14 : 52 |
| 3 | Q2128-04 | TP03-MHM | 1 | Solid | NO | 0.00 | 05/28/2025 | 15:00 |
| 4 | Q2129-01 | VAC-BOX-N40705 | 1 | Solid | NO | 0.00 | 05/28/2025 | 15 : 07 |
| 5 | Q2130-02 | TP-3 | 1 | Solid | NO | 0.00 | 05/28/2025 | 15 : 15 |
| 6 | Q2136-05 | OR-646-COMP-52 | 1 | Solid | NO | 0.00 | 05/28/2025 | 15 : 22 |
| 7 | Q2143-01 | ELI-46-36-25-58-53 | 1 | Solid | NO | 0.00 | 05/28/2025 | 15 : 30 |
| 8 | Q2143-02 | ELI-57-43-35-26 | 1 | Solid | NO | 0.00 | 05/28/2025 | 15 : 37 |
| 9 | Q2144-01 | OILY-DEBRIS-COMP-A | 1 | Solid | NO | 0.00 | 05/28/2025 | 15 : 45 |
| 10 | Q2144-02 | OILY-DEBRIS-COMP-B | 1 | Solid | NO | 0.00 | 05/28/2025 | 15 : 52 |
| 11 | Q2146-01 | TP04-MHN-WC | 1 | Solid | NO | 0.00 | 05/28/2025 | 16:00 |
| 12 | Q2146-04 | TP04-MHN-WC | 1 | Solid | NO | 0.00 | 05/28/2025 | 16:08 |
| 13 | Q2149-01 | FILTER-CAKE | 1 | Solid | NO | 0.00 | 05/28/2025 | 16:15 |

Burning Rate = Length(mm)

| Chain) |
|-----------------|
| Internal |
| (Hardcopy |
| WORKLIST |

16 135939

| WorkList Name : | ign-052825 | WorkList ID : | : 189800 | Department : | Wet-Chemistry | Dat | Date: 05-28-202 | 05-28-2025 14:28:20 |
|-----------------|--------------------|---------------|--------------|--------------|---------------|-----------------------------------|------------------------|---------------------|
| Sample | Customer Sample | Matrix | Test | Preservative | Customer | Raw Sample Storage Location | Collect Date Method | Method |
| Q2128-01 | TP03-MHM | Solid | Ignitability | Cool 4 deg C | PSEG03 | L41 | 05/23/2025 1030 | 1030 |
| Q2128-04 | TP03-MHM | Solid | Ignitability | Cool 4 deg C | PSEG03 | L41 | 05/23/2025 | 1030 |
| Q2129-01 | VAC-BOX-N40705 | Solid | Ignitability | Cool 4 deg C | PSEG03 | L41 | 05/27/2025 | 1030 |
| Q2130-02 | TP-3 | Solid | Ignitability | Cool 4 deg C | PSEG03 | L41 | | 1030 |
| Q2136-05 | OR-646-COMP-52 | Solid | Ignitability | Cool 4 deg C | PSEG03 | L41 | | 1030 |
| Q2143-01 | ELI-46-36-25-58-53 | Solid | Ignitability | Cool 4 deg C | PSEG03 | L31 | 05/28/2025 | 1030 |
| Q2143-02 | ELI-57-43-35-26 | Solid | Ignitability | Cool 4 deg C | PSEG03 | L31 | 05/28/2025 | 1030 |
| Q2144-01 | OILY-DEBRIS-COMP-A | Solid | Ignitability | Cool 4 deg C | PSEG03 | L31 | 05/28/2025 1030 | 1030 |
| Q2144-02 | OILY-DEBRIS-COMP-B | Solid | Ignitability | Cool 4 deg C | PSEG03 | L31 | 05/28/2025 | 1030 |
| Q2146-01 | TP04-MHN-WC | Solid | Ignitability | Cool 4 deg C | PSEG03 | L31 | 05/28/2025 | 1030 |
| Q2146-04 | TP04-MHN-WC | Solid | Ignitability | Cool 4 deg C | PSEG03 | L31 | 05/28/2025 | 1030 |
| Q2149-01 | FILTER-CAKE | Solid | Ignitability | Cool 4 deg C | ARAM01 | L31 | 05/28/2025 1030 | 1030 |

-Jahren -Date/Time of 28 25 14:35 Raw Sample Received by: EM (WC) Raw Sample Relinquished by:

Reviewed By:Iwona On:5/28/2025 4:37:04 PM Inst Id :FLAME LB :LB135939 EMIWC The well 08 23 25 Raw Sample Relinquished by: Raw Sample Received by: I Date/Time

Page 1 of 1



Analytical Summary Report

| Analysis Method: | 9045D | Analyst By : jignesh |
|------------------|-------------|------------------------------|
| Parameter: | Corrosivity | Supervisor Review By : Iwona |
| Run Number: | LB135949 | Slope : 98.3 |
| BalanceID: | WC SC-7 | pH Meter ID : WC PH METER-1 |

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

True Value of ICV = 7.00 Control Limits[+/- 0.05].

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

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

| Seq | LabID | DF | Matrix | Weight (gm) | Volume (ml) | Temperature (°C) | Result (pH) | Anal Date | Anal Time |
|-----|-------------|----|--------|----------------|----------------|---------------------|----------------|------------|----------------|
| 1 | CAL1 | 1 | Water | NA | NA | 20.2 | 4.01 | 05/29/2025 | 13:25 |
| 2 | CAL2 | 1 | Water | NA | NA | 20.2 | 7.00 | 05/29/2025 | 13:26 |
| 3 | CAL3 | 1 | Water | NA | NA | 20.3 | 10.03 | 05/29/2025 | 13:30 |
| 4 | ICV | 1 | Water | NA | NA | 20.2 | 7.02 | 05/29/2025 | 13 : 35 |
| 5 | CCV1 | 1 | Water | NA | NA | 20.2 | 2.01 | 05/29/2025 | 13:40 |
| 6 | Q2136-05 | 1 | Solid | 20.02 | 20 | 22.1 | 6.01 | 05/29/2025 | 13:50 |
| 7 | Q2143-01 | 1 | Solid | 20.03 | 20 | 22.7 | 7.86 | 05/29/2025 | 14:00 |
| 8 | Q2143-02 | 1 | Solid | 20.02 | 20 | 22.7 | 7.46 | 05/29/2025 | 14:10 |
| 9 | Q2144-01 | 1 | Solid | 20.03 | 20 | 20.8 | 5.12 | 05/29/2025 | 14:25 |
| 10 | Q2144-02 | 1 | Solid | 20.04 | 20 | 21.9 | 6.06 | 05/29/2025 | 14 : 35 |
| 11 | Q2146-04 | 1 | Solid | 20.02 | 20 | 21.1 | 5.20 | 05/29/2025 | 14:45 |
| 12 | Q2149-01 | 1 | Solid | 20.03 | 20 | 21.6 | 5.24 | 05/29/2025 | 14:50 |
| 13 | Q2151-04 | 1 | Solid | 20.02 | 20 | 21.2 | 6.03 | 05/29/2025 | 15:00 |
| 14 | Q2151-04DUP | 1 | Solid | 20.03 | 20 | 21.3 | 6.04 | 05/29/2025 | 15:01 |
| 15 | CCV2 | 1 | Water | NA | NA | 20.3 | 12.02 | 05/29/2025 | 15:10 |

| | | 5 | WORKLIST(Hardcopy Internal Chain) | opy Internal Ch | | 19 15444 | |
|-----------------|------------------|---------------------|-----------------------------------|-----------------|----------------------------|-----------------------------------|------------------------|
| WorkList Name : | corrsovity q2151 | WorkList ID: 189817 | 189817 | Department : | Department : Wet-Chemistry | Date | Date : 05-29-20 |
| Sample | Customer Sample | Matrix Test | | Preservative | Customer | Raw Sample Storage Location | Collect Date |
| Q2136-05 | OR-646-COMP-52 | rir-o | | | | | |
| C0142 04 | | Solid Corrosivity | orrosivity | Cool 4 deg C | PSEG03 | L41 | 05/27/2025 |

| | | | | Uepartment : | Uepartment : Wet-Chemistry | Da | Date : 05-29-2025 12:51:37 | 12:51:37 |
|----------|--------------------|--------|--------------|--------------|----------------------------|-----------------------------------|----------------------------|------------|
| Sample | Customer Sample | Matrix | Test | Preservative | Customer | Raw Sample Storage Location | Collect Date Method | , ethod |
| Q2136-05 | OR-646-COMP-52 | Files | | | | | | |
| | | DIIOC | Corrosivity | Cool 4 deg C | PSEG03 | 141 | DEID7100E 00 | |
| Q2143-01 | ELI-46-36-25-58-53 | Solid | Corrosivity | | | | 194906 9071771CA | 450 |
| 02143-02 | | | 60000- | COUL 4 deg C | PSEG03 | L31 | 05/28/2025 9045D | 45D |
| 70-01-25 | CLI-3/-43-35-26 | Solid | Corrosivity | Cool 4 dea C | DOECOS | 101 | | |
| Q2144-01 | OILY-DEBRIS-COMP-A | Colid | | 0 | | L31 | 05/28/2025 9045D | 45D |
| | | | Corrosivity | Cool 4 deg C | PSEG03 | 131 | 06/00/2005 | |
| Q2144-02 | OILY-DEBRIS-COMP-B | Solid | Corrosivity | | | 2 | (1940) GZUZIOZICU | 450 |
| 02146-04 | TD04 Million With | | humana | COOI 4 deg C | PSEG03 | L31 | 05/28/2025 9045D | 45D |
| | | Solid | Corrosivity | Cool 4 den C | 00100 | | | |
| Q2149-01 | FILTER-CAKE | | | | LOEG03 | L31 | 05/28/2025 9045D | 45D |
| | | DIIOC | Corrosivity | Cool 4 deg C | ARAM01 | 1 24 | | |
| Q2151-04 | WC-1 | Solid | Corroch dt. | | | 2 | 05/28/2025 9045D | 45D |
| | | | contrasivity | Cool 4 deg C | PSEG03 | L41 | 05/29/2025 9045D | 45D |
| | | | | | | | | |

(ms) 1 Date/Time 05/29/45 13:15 Raw Sample Received by: -20 (4.20) Raw Sample Relinquished by:

17,00 7 Raw Sample Relinquished by: Date/Time dSL4/25 Raw Sample Received by:

Reviewed By:Iwona On:5/30/2025 9:49:26 AM Inst Id :WC PH METER-1

(Jogg)

Page 1 of 1

| | | | | | LB135966 | Reviewed By:Iwona On:6/2/2025 11:23:31 AM |
|---|--|--|--|---------------------------|------------|---|
| ====================================== | | Aquakem 7 | | | Page: | Inst Id :Konelab 20 L <u>B</u> :LB135966 |
| | | | CONSULTING G ield Street, | ROUP INC Mountainside, | NJ 07092 | |
| 5/30/2025 14:34 | | Reviewed] | by : <u>RM</u> | Instrument | ID : Konel | lab |
| Test: Total CN | | | | | | |
| Sample Id | Result | | Response | Errors | | |
| ICV1 ICB1 CCV1 CCB1 PB168189BL Q2143-01 Q2143-01DUP Q2144-01 Q2144-02 Q2146-04 Q2149-01 Q2151-04 Q2159-04 Q2160-04 CCV2 CCB2 Q2160-08 Q2143-02 CCV3 CCB3 | 1.553 248.120 1.355 1.328 1.471 1.545 1.508 1.417 1.434 1.226 1.291 1.420 1.304 248.157 1.530 1.370 1.739 255.572 | 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 | 0.073 0.001 0.196 0.001 0. | | | |
| N Mean SD CV% | 20 43.365 91.6029 211.23 | | | | | |

CV%

Aquakem v. 7.2AQ1

Results from time period:

Fri May 30 13:46:44 2025 Fri May 30 14:32:49 2025

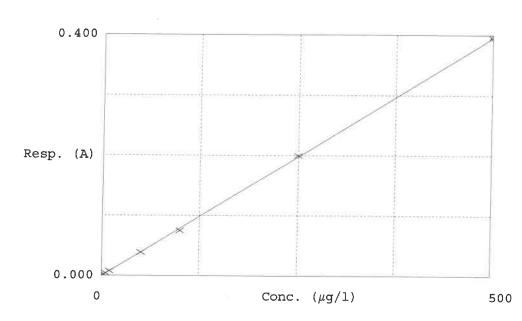
| Sample Id | S | am/Ctr/c/ Test sho | rt r Tes | t type Res | sult | Result unit | Result date and time | Stat |
|------------|----|--------------------|----------|------------|-----------------|-------------|----------------------|------|
| 0.0PPBCN | А | Total CN | Р | | 1.4869 | | 5/30/2025 9:28:02 | |
| 5.0PPBCN | А | Total CN | Р | | 5.8978 | µg/l | 5/30/2025 9:28:03 | |
| 10PPBCN | А | Total CN | Р | 1 | .0.4286 | µg/l | 5/30/2025 9:28:04 | |
| 50PPBCN | А | Total CN | Р | 4 | 9.7044 | µg/l | 5/30/2025 9:28:05 | |
| 100PPBCN | А | Total CN | Р | 9 | 5.3464 | µg/l | 5/30/2025 9:28:06 | |
| 250PPBCN | Α | Total CN | Р | 25 | 2.3863 | µg/l | 5/30/2025 9:28:07 | |
| 500PPBCN | А | Total CN | Р | 49 | 9.7496 | µg/l | 5/30/2025 9:28:08 | |
| ICV1 | S | Total CN | Р | 9 | 2.4476 | µg/l | 5/30/2025 13:46:45 | |
| ICB1 | S | Total CN | Ρ | | 1.5531 | µg/l | 5/30/2025 13:46:46 | |
| CCV1 | S | Total CN | Р | 24 | 8.1201 | µg/l | 5/30/2025 13:46:48 | |
| CCB1 | S | Total CN | Ρ | | 1.3546 | µg/l | 5/30/2025 13:46:51 | |
| PB168189BL | S | Total CN | Ρ | : | 1.3275 | µg/l | 5/30/2025 13:46:54 | |
| Q2143-01 | S | Total CN | Ρ | : | 1.4708 | µg/l | 5/30/2025 13:54:21 | |
| Q2143-01DU | ΡS | Total CN | Ρ | : | 1.5449 | µg/l | 5/30/2025 13:54:23 | |
| Q2144-01 | S | Total CN | Ρ | - | L.5077 | µg/l | 5/30/2025 13:54:25 | |
| Q2144-02 | S | Total CN | Р | 1 | l.4168 | µg/l | 5/30/2025 13:54:26 | |
| Q2146-04 | S | Total CN | Ρ | 1 | .4342 | µg/l | 5/30/2025 13:54:27 | |
| Q2149-01 | S | Total CN | Р | 1 | .2264 | ug/l | 5/30/2025 13:54:28 | |
| Q2151-04 | S | Total CN | Р | 1 | .2908 μ | Jg/l | 5/30/2025 13:54:29 | |
| Q2159-04 | S | Total CN | Р | 1 | .4201 µ | Jg/l | 5/30/2025 14:01:51 | |
| Q2160-04 | S | Total CN | Ρ | 1 | .3036 µ | ıg/l | 5/30/2025 14:01:52 | |
| CCV2 | S | Total CN | Ρ | 248 | .1565 µ | ıg/l | 5/30/2025 14:01:58 | |
| CCB2 | S | Total CN | Ρ | 1 | .5301 µ | ıg/l | 5/30/2025 14:02:00 | |
| Q2160-08 | S | Total CN | Р | 1 | .3696 µ | ıg/l | 5/30/2025 14:02:01 | |
| Q2143-02 | S | Total CN | Р | 1 | .7394 µ | ıg/l | 5/30/2025 14:07:06 | |
| CCV3 | S | Total CN | Р | 255. | . 5718 μ | g/l | 5/30/2025 14:32:46 | |
| CCB3 | S | Total CN | Р | 1. | 5242 μ | g/l | 5/30/2025 14:32:49 | |
| | | | | | | | | |

| calibration results | ======= S | ====================================== | Reviewed By:Iwona On:6/2/2025 11:23:31 AM Page: LB :LB135966 |
|---------------------|----------------|--|---|
| | | CHEMTECH CONSULTING GROUP INC 284 Sheffield Street, Mountainside, | NJ 07092 |
| 5/30/2025 9:29 | | Reviewed by : <u><u><u>RM</u></u> Instrument</u> | ID : Konelab |
| Test Total CN | | | |
| Accepted | 5/30/2025 | 5 9:29 | |
| Factor Bias | 1262 -0.001 | | |
| Coeff. of det. | 0.999851 | | |

Errors

I.

,



| | Calibrator | Response | Calc. con. | Conc. | G Errors |
|---|------------|----------|------------|----------|-------------|
| l | 0.0PPBCN | 0.001 | 1.4869 | 0.0000 | 18.0 |
| 2 | 5.0PPBCN | 0.004 | 5.8978 | 5.0000 | 18.0 |
| 3 | 10PPBCN | 0.008 | 10.4286 | 10.0000 | 4.8 |
| 4 | 50PPBCN | 0.039 | 49.7044 | 50.0000 | -0.6 |
| 5 | 100PPBCN | 0.075 | 95.3464 | 100.0000 | |
| 6 | 250PPBCN | 0.200 | 252.3863 | 250.0000 | -4.7 |
| 7 | 500PPBCN | 0.396 | 499.7496 | 500.0000 | 1.0 |
| | | | | | -0.1 |

05/30/2025 RM

CHEMIECH Analytical Summary Report



Reagent/StandardLot/Log #SODIUM THIOSULFATE, 0.025N, 4LITREW3105IODINE SOLUTION .025N 1LW3114Starch Solution, 4LW3149

| Seq | Lab ID | True Value (mg/l) | DF | Initial Weight (g) | Final Volume (ml) | T1 (ml) | T2 Initial | T2 Final | T2 Diff. (ml) | T1 - T2 Diff (mL) | Value Corrected With Blank | Result (ppm) | Anal Date | Anal Time |
|-----|-------------|-------------------------|----|--------------------------|-------------------------|------------|---------------|-------------|------------------|----------------------|----------------------------------|-----------------|--------------|----------------|
| 1 | PB168193BL | | 1 | 5.00 | 50 | 2.00 | 0.00 | 1.92 | 1.92 | 0.08 | 0.00 | 0.00 | 05/30/2025 | 16:30 |
| 2 | Q2143-01 | | 1 | 5.02 | 50 | 2.00 | 0.00 | 1.90 | 1.90 | 0.10 | 0.02 | 1.59 | 05/30/2025 | 16:33 |
| 3 | Q2143-01DUP | | 1 | 5.02 | 50 | 2.00 | 0.00 | 1.90 | 1.90 | 0.10 | 0.02 | 1.59 | 05/30/2025 | 16:36 |
| 4 | Q2143-02 | | 1 | 5.07 | 50 | 2.00 | 0.00 | 1.86 | 1.86 | 0.14 | 0.06 | 4.73 | 05/30/2025 | 16:38 |
| 5 | Q2144-01 | | 1 | 5.04 | 50 | 2.00 | 0.00 | 1.90 | 1.90 | 0.10 | 0.02 | 1.59 | 05/30/2025 | 16:40 |
| 6 | Q2144-02 | | 1 | 5.03 | 50 | 2.00 | 0.00 | 1.90 | 1.90 | 0.10 | 0.02 | 1.59 | 05/30/2025 | 16:42 |
| 7 | Q2146-04 | | 1 | 5.07 | 50 | 2.00 | 0.00 | 1.86 | 1.86 | 0.14 | 0.06 | 4.73 | 05/30/2025 | 16:43 |
| 8 | Q2149-01 | | 1 | 5.01 | 50 | 2.00 | 0.00 | 1.88 | 1.88 | 0.12 | 0.04 | 3.19 | 05/30/2025 | 16:45 |
| 9 | Q2151-04 | | 1 | 5.05 | 50 | 2.00 | 0.00 | 1.90 | 1.90 | 0.10 | 0.02 | 1.58 | 05/30/2025 | 16:47 |
| 10 | Q2159-04 | | 1 | 5.07 | 50 | 2.00 | 0.00 | 1.88 | 1.88 | 0.12 | 0.04 | 3.16 | 05/30/2025 | 16:50 |
| 11 | Q2160-04 | | 1 | 5.05 | 50 | 2.00 | 0.00 | 1.90 | 1.90 | 0.10 | 0.02 | 1.58 | 05/30/2025 | 16 : 52 |
| 12 | Q2160-08 | | 1 | 5.04 | 50 | 2.00 | 0.00 | 1.86 | 1.86 | 0.14 | 0.06 | 4.76 | 05/30/2025 | 16:54 |

Normality2: 0.025

T1 = Titrant1

T2 = Titrant2

T2 Diff = T2 Final - T2 Initial

Value Corrected With Blank = ((T1 - T2 Diff) - Blank Correction(BL))

Result = ((T1 * Normality1) - ((T1 - Value Corrected With Blank) * Normality2)) * Constant / Initial Volume

CHEIMITECH

| Analysis Method: | 9034 | ANALYST: | rubina |
|------------------|------------------|-----------------------|--------|
| Parameter: | Reactive Sulfide | SUPERVISOR REVIEW BY: | Iwona |
| Run Number: | LB135967 | Constant: | 16000 |
| | | Normality1: | 0.025 |
| | | | |

Normality2: 0.025

| Reagent/Standard | Lot/Log # |
|----------------------------------|-----------|
| SODIUM THIOSULFATE,0.025N,4LITRE | W3105 |
| IODINE SOLUTION .025N 1L | W3114 |
| Starch Solution, 4L | W3149 |

| Seq | Lab ID | True Value (mg/l) | DF | Initial Weight (g) | Final Volume (ml) | T1 (ml) | T2 Initial | T2 Final | T2 Diff. (ml) | T1 - T2 Diff (mL) | Value Corrected With Blank | Result (ppm) | Anal Date | Anal Time |
|-----|----------|-------------------------|----|--------------------------|-------------------------|------------|---------------|-------------|------------------|----------------------|----------------------------------|-----------------|--------------|----------------|
| 13 | Q2172-04 | | 1 | 5.02 | 50 | 2.00 | 0.00 | 1.90 | 1.90 | 0.10 | 0.02 | 1.59 | 05/30/2025 | 16 : 56 |
| 14 | Q2173-06 | | 1 | 5.03 | 50 | 2.00 | 0.00 | 1.86 | 1.86 | 0.14 | 0.06 | 4.77 | 05/30/2025 | 16 : 58 |
| 15 | Q2173-12 | | 1 | 5.01 | 50 | 2.00 | 0.00 | 1.90 | 1.90 | 0.10 | 0.02 | 1.60 | 05/30/2025 | 17:01 |
| 16 | Q2173-18 | | 1 | 5.03 | 50 | 2.00 | 0.00 | 1.86 | 1.86 | 0.14 | 0.06 | 4.77 | 05/30/2025 | 17:03 |

T1 = Titrant1

T2 = Titrant2

T2 Diff = T2 Final - T2 Initial

Value Corrected With Blank = ((T1 - T2 Diff) - Blank Correction(BL))

Result = ((T1 * Normality1) - ((T1 - Value Corrected With Blank) * Normality2)) * Constant / Initial Volume



Soil/Sludge Reactive Cyanide Preparation Sheet

| SOP ID : | M9012B-Total, An | nenable and | Reactive Cyan | ide-20 | | | | | |
|--|------------------|-------------|---------------|-----------|----------------|-----------------|---------------|--------|-----|
| SDG No : | N/A | _ | | Star | t Digest Date: | 05/30/2025 | Time: 08:50 | Temp : | N/A |
| Matrix : | SOIL | | | End | Digest Date: | | Time : 10:20 | - · | |
| Pippete ID : | N/A | | | | | | | _ | |
| Balance ID : | WC SC-7 | - | | | | | | | |
| Hood ID : | HOOD#1 | Dige | stion tube ID | : M5595 | | Block Thermo | ometer ID : N | /Δ | |
| Block ID : | MC-1,MC-2 | Fil | iter paper ID | : N/A | | Prep Technician | - | RM | 1 |
| Weigh By : | RM | -0 | pH Meter ID | : N/A | | Supervisor | - | 12 | |
| Standared | Name | | MLS USED | | STD RE | F. # FROM LOG | 3 | | |
| PBS003 | | | 50.0ML | | W3112 | | | | |
| N/A | | | N/A | | N/A | | | | |
| Balance ID: WC SC-7 Hood ID: HOOD#1 Digestion tube ID: M5595 Block ID: MC-1,MC-2 Filter paper ID: N/A Weigh By: RM pH Meter ID: N/A Standared Name MLS USED PBS003 50.0ML N/A N/A N/A N/A N/A N/A N/A N/A ML/SAME O.25N NaOH 50.0ML 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 ML/SAME N/A N/A N/A N/A N/A N/A <th< th=""><th></th><th>N/A</th><th></th><th></th><th></th><th></th></th<> | | | N/A | | | | | | |
| N/A | | | N/A | | N/A | | | | |
| N/A | | | | | N/A | | | | |
| | Used | | | ML/SAMPLE | | | Lot Number | | |
| | | | 5 | O.OML | | WP111294 | | | |
| and the second se | | | N | I/A | | N/A | | | |
| | | | | | | N/A | | | |
| | | | N | I/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 | Comment |
|---------------|------------------|---------|
| | | |

Extraction Conformance/Non-Conformance Comments:

N/A

| Date / Time | Prepped Sample Relinquished By/Location | Received By/Location |
|------------------|---|----------------------|
| 05/30/2028 10.30 | RM WO | RIMIN |
| | Preparation Group | Analysis Group |



PB168189

| Lab Sample ID | Client Sample ID | Initial Weight (9) | Final Vol (ml) | рH | Sulfide | Oxidizing | Nitrate/ Nitrite | Comment | Prep Pos |
|------------------|-----------------------|--------------------------|-------------------|-----|---------|-----------|---------------------|---------|-------------|
| PB168189BL | PBS189 | 5.00 | 50 | N/A | N/A | N/A | N/A | N/A | N/A |
| Q2143-01DUP | ELI-46-36-25-58-53DUP | 5.04 | 50 | N/A | N/A | N/A | N/A | N/A | N/A |
| Q2143-01 | ELI-46-36-25-58-53 | 5.04 | 50 | N/A | N/A | N/A | N/A | N/A | N/A |
| Q2143-02 | ELI-57-43-35-26 | 5.01 | 50 | N/A | N/A | N/A | N/A | N/A | N/A |
| Q2144-01 | OILY-DEBRIS-COMP-A | 5.04 | 50 | N/A | N/A | N/A | N/A | N/A | N/A |
| Q2144-02 | OILY-DEBRIS-COMP-B | 5.02 | 50 | N/A | N/A | N/A | N/A | N/A | N/A |
| Q2146-04 | TP04-MHN-WC | 5.03 | 50 | N/A | N/A | N/A | N/A | N/A | N/A |
| Q2149-01 | FILTER-CAKE | 5.07 | 50 | N/A | N/A | N/A | N/A | N/A | N/A |
| 2151-04 | WC-1 | 5.05 | 50 | N/A | N/A | N/A | N/A | N/A | N/A |
| 2159-04 | ТР05-МНО-WC | 5.03 | 50 | N/A | N/A | N/A | N/A | N/A | N/A |
| 2160-04 | TP04-MHG-WC | 5.06 | 50 | N/A | N/A | N/A | N/A | N/A | N/A |
| 2160-08 | TP05-MHG-WC | 5.04 | 50 | N/A | N/A | N/A | N/A | N/A | N/A |

WORKLIST(Hardcopy Internal Chain)

WorkList Name : RCN-S-5-29

| WorkList Name : | RCN-S-5-29 | WorkList ID : | 189822 | Department : | Distillation | Da | Date: 05-29-201 | 05-29-2025 15-04-07 |
|-----------------|--------------------|----------------|------------------|--------------|--------------|-----------------------------------|------------------|---------------------|
| Sample | Customer Sample | Matrix T | Test | Preservative | Customer | Raw Sample Storage Location | | Method |
| Q2143-01 | ELI-46-36-25-58-53 | Solid | Reactive Cvanide | Cool 4 dos C | | | | |
| Q2143-02 | FI 1-57-43-35.36 | | | 0.655 + 5550 | Lacos | L31 | 05/28/2025 | 9012B |
| | | DIIOS | Reactive Cyanide | Cool 4 deg C | PSEG03 | L31 | 05/28/2025 9012B | 9012B |
| uz144-01 | OILY-DEBRIS-COMP-A | Solid | Reactive Cyanide | Cool 4 deg C | PSFG03 | 1 34 | 05/00/20 | |
| Q2144-02 | OILY-DEBRIS-COMP-B | Solid | Reactive Cvanide | Cool 4 dea C | | 3 | GZN7/07/00 | 9012B |
| Q2146-04 | TPD4-MHN-MC | | | 0 800 - 500 | LOEGUS | 131 | 05/28/2025 | 9012B |
| | | Dilos | Reactive Cyanide | Cool 4 deg C | PSEG03 | L31 | 05/27/2025 9012B | 9012B |
| Q2149-01 | FILTER-CAKE | Solid R | Reactive Cyanide | Cool 4 dea C | ARAM01 | 104 | | |
| Q2151-04 | WC-1 | Solid | Reactive Cvanide | Cool 4 dea C | | | | 9012B |
| Q2159-04 | TP05-MHO-WC | Colid Colid | | 0 655 + 1000 | LAEGUS | L41 | 05/29/2025 | 9012B |
| Coteo ot | | | reactive cyanide | Cool 4 deg C | PSEG03 | L41 | 05/29/2025 9012B | 9012B |
| 40-04 | IP04-MHG-WC | Solid R | Reactive Cyanide | Cool 4 deg C | PSEG03 | 141 | 0E/20/2026 | |
| Q2160-08 | TP05-MHG-WC | Solid R | Reactive Cvanide | Conl 4 dea C | | | | 9012B |
| | | | | | Paegus | L41 | 05/29/2025 | 9012B |

Date/Time _________________________________ Raw Sample Received by: <u>المالي المالية المالي</u>

09.20 121-121 uel Date/Time 05/30/2025 l R Raw Sample Relinquished by: Raw Sample Received by:

Page 1 of 1



Soil/Sludge Reactive Sulfide Preparation Sheet

PB168193

| SOP ID : | M9030B-Sulfide-12 | | | | | | | |
|--------------|-------------------|---------------|-------------|--------------|----------------|----------------|--------|-----|
| SDG No : | N/A | | Start | Digest Date: | 05/30/2025 | Time: 14:35 | Temp : | N/A |
| Matrix : | SOIL | | | Digest Date: | | Time : 16:05 | Temp : | N/A |
| Pippete ID : | WC | | | _ | | | | |
| Balance ID : | WC SC-7 | | | | | | | |
| Hood ID : | HOOD#1 | Digestion tub | e ID: M5595 | | Block Ther | mometer ID : N | /Δ | |
| Block ID : | MC-1, MC-2 | Filter pape | r ID: N/A | P | Prep Technicia | | Rr | 4 |
| Weigh By : | RM | pH Mete | r ID : N/A | | | or Signature: | 12 | |
| Standared | Name | MLS US | ED | STD REI | F. # FROM LO | DG | | |
| PBS003 | | 50.0ML | | W3112 | | | | |
| N/A | | N/A | | N/A | | | | |
| N/A | | N/A | | N/A | | | | |
| N/A | | N/A | | N/A | | | | |
| N/A | | N/A | | N/A | | | _ | |
| Chemical U | Used | | ML/SAMPLE U | | | Lot Number | | |
| 0.5M ZINC AC | ETATE | | 5.0ML | | WP113086 | | | |
| FORMALDEHY | DE | | 2.0ML | | W2725 | | | |
| N/A | | | N/A | | N/A | | | |
| N/A | | | N/A | | N/A | | | |
| N/A | | | N/A | | N/A | | | |
| N/A | | | N/A | | N/A | | | |
| N/A | | | N/A | | N/A | | | |
| N/A | | | N/A | | N/A | | | |
| N/A | | | N/A | | N/A | | | |
| N/A | | | N/A | | N/A | | | |

Extraction Conformance/Non-Conformance Comments:

05/30/2025 PM

N/A

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



| Lab Sample ID | Client Sample ID | Initial Weight (g) | Final Vo (ml) | pH | Sulfide | Oxidizing | Nitrate/ Nitrite | Comment | Pre |
|------------------|------------------------|--------------------------|------------------|-----|---------|-----------|---------------------|---------|-----|
| PB168193BL | PBS193 | 5.00 | 50 | N/A | N/A | N/A | N/A | N/A | N// |
| Q2143-01 | ELI-46-36-25-58-53 | 5.02 | 50 | N/A | N/A | N/A | N/A | N/A | N/# |
| Q2143-01DUP | ELI-46-36-25-58-53DUP | 5.02 | 50 | N/A | N/A | N/A | N/A | N/A | N// |
| Q2143-02 | ELI-57-43-35-26 | 5.07 | 50 | N/A | N/A | N/A | N/A | N/A | N/A |
| Q2144-01 | OILY-DEBRIS-COMP-A | 5.04 | 50 | N/A | N/A | N/A | N/A | N/A | N/A |
| Q2144-02 | OILY-DEBRIS-COMP-B | 5.03 | 50 | N/A | N/A | N/A | N/A | N/A | N/A |
| Q2146-04 | TP04-MHN-WC | 5.07 | 50 | N/A | N/A | N/A | N/A | N/A | N/A |
| Q2149-01 | FILTER-CAKE | 5.01 | 50 | N/A | N/A | N/A | N/A | N/A | N/A |
| 2151-04 | WC-1 | 5.05 | 50 | N/A | N/A | N/A | N/A | N/A | N/A |
| 2159-04 | ТР05-МНО-WC | 5.07 | 50 | N/A | N/A | N/A | N/A | N/A | N/A |
| 2160-04 | TP04-MHG-WC | 5.05 | 50 | N/A | N/A | N/A | N/A | N/A | N/A |
| 2160-08 | TP05-MHG-WC | 5.04 | 50 | N/A | N/A | N/A | N/A | N/A | N/A |
| 2172-04 | ТРО6-МНQ | 5.02 | 50 | N/A | N/A | N/A | N/A | N/A | N/A |
| 2173-06 | OR-400-CF-402B-COMP-23 | 5.03 | 50 | N/A | N/A | N/A | N/A | N/A | N/A |
| 2173-12 | OR-400-CF-402B-COMP-24 | 5.01 | 50 1 | V/A | N/A | N/A | N/A 1 | V/A | N/A |
| 173-18 | OR-400-CF-402B-COMP-25 | 5.03 | 50 r | 1/A | N/A | N/A 1 | N/A M | N/A | N/A |

WORKLIST(Hardcopy Internal Chain)

WorkList Name : RSUL-S-5-29

| WORKLIST Name : | RSUL-S-5-29 | WorkList ID : |): 189823 | Department : | Distillation | (| | |
|-----------------|------------------------|---------------|------------------|---------------|--------------|-----------------------------------|---------------------|---------------------|
| | | | | | | Da | Date : 05-29-202 | 05-29-2025 15:04:14 |
| Sample | Customer Sample | Matrix | Test | Preservative | Customer | Raw Sample Storage Location | Collect Date Method | Method |
| 02142-04 | | | | | | | | |
| | ELI-40-30-20-28-53 | Solid | Reactive Sulfide | Cool 4 deg C | DCECUS | 101 | | |
| Q2143-02 | ELI-57-43-35-26 | Solid | Reactive Sulfide | | 1 0000 | L3 | 05/28/2025 | 9034 |
| Q2144-01 | OILY-DERRIS-COMP_A | | | C001 4 deg C | PSEG03 | L31 | 05/28/2025 | 9034 |
| 00111 00 | | DIIOS | Reactive Sulfide | Cool 4 deg C | PSEG03 | L31 | 05/28/2026 | 1000 |
| uz 144-UZ | OILY-DEBRIS-COMP-B | Solid | Reactive Sulfide | Cool 4 dea C | | | | 30.34 |
| Q2146-04 | TP04-MHN-WC | nilo0 | | O fian t inno | PSEG03 | L31 | 05/28/2025 | 9034 |
| | | DIDO | Reactive Sulfide | Cool 4 deg C | PSEG03 | 131 | 0EP37P00E | 1000 |
| QZ149-01 | FILTER-CAKE | Solid | Reactive Sulfide | Cool 4 dea C | | | CZ02112100 | 9034 |
| Q2151-04 | WC-1 | Pilo | | o fan t inno | AKAM01 | L31 | 05/28/2025 | 9034 |
| Corre of | | | reactive suitide | Cool 4 deg C | PSEG03 | L41 | 05/20/2025 | 1000 |
| 42159-04 | TP05-MHO-WC | Solid | Reactive Sulfide | Cool 4 dog 0 | | | - 1 | 30.34 |
| Q2160-04 | TP04-MHG-WC | | | | PSEG03 | L41 | 05/29/2025 | 9034 |
| | | BIIOS | Keactive Sulfide | Cool 4 deg C | PSEG03 | 41 | 05/20/2025 | |
| UZ160-08 | TP05-MHG-WC | Solid | Reactive Sulfide | Cool 4 den C | | | 0707127100 | 8034 |
| Q2172-04 | TP06-MHQ | Solid | Reartive Sulfido | | 20EGUS | L41 | 05/29/2025 | 9034 |
| Q2173-06 | OR-400-CE 402B COMP 20 | | | Cool 4 deg C | PSEG03 | L31 | 05/30/2025 9034 | 9034 |
| | | Solid | Reactive Sulfide | Cool 4 deg C | PSEG03 | 1 31 | 0510010001 | |
| Q2173-12 | OR-400-CF-402B-COMP-24 | Solid | Reactive Sulfida | Carl 4 Jan O | | 2 | 05/02/05/cn | 9034 |
| Q2173-18 | OR-400-CE-4028-COMD 25 | | | | PSEG03 | L31 | 05/30/2025 | 9034 |
| | | | Reactive Sulfide | Cool 4 deg C | PSEG03 | L31 | 05/30/2025 | 9034 |
| | | | | | | | | |

14.00 Raw Sample Received by: Date/Time 05 30/2025 Raw Sample Relinquished by:

PH (MC) 0.51 20000 Date/Time os/30/2015 Raw Sample Relinquished by: Raw Sample Received by:

Page 1 of 1



Instrument ID: FLAME

| Review By | Em | an | Review On | 5/28/2025 4:36:25 PM |
|---------------|-----|-----------|--------------|----------------------|
| Supervise By | lwo | na | Supervise On | 5/28/2025 4:37:04 PM |
| SubDirectory | LB1 | 135939 | Test | Ignitability |
| STD. NAME | | STD REF.# | | |
| ICAL Standard | | N/A | | |
| ICV Standard | | N/A | | |
| CCV Standard | | N/A | | |
| ICSA Standard | | N/A | | |
| CRI Standard | | N/A | | |
| LCS Standard | | N/A | | |
| Chk Standard | | N/A | | |

| Sr# | SampleId | ClientID | QcType | Date | Comment | Operator | Status |
|-----|-------------|--------------------|--------|----------------|---------|----------|--------|
| 1 | Q2128-01 | TP03-MHM | SAM | 05/28/25 14:45 | | Eman | ок |
| 2 | Q2128-01DUP | TP03-MHMDUP | DUP | 05/28/25 14:52 | | Eman | ок |
| 3 | Q2128-04 | TP03-MHM | SAM | 05/28/25 15:00 | | Eman | ок |
| 4 | Q2129-01 | VAC-BOX-N40305 | SAM | 05/28/25 15:07 | | Eman | ок |
| 5 | Q2130-02 | TP-3 | SAM | 05/28/25 15:15 | | Eman | ок |
| 6 | Q2136-05 | OR-646-COMP-52 | SAM | 05/28/25 15:22 | | Eman | ок |
| 7 | Q2143-01 | ELI-46-36-25-58-53 | SAM | 05/28/25 15:30 | | Eman | ок |
| 8 | Q2143-02 | ELI-57-43-35-26 | SAM | 05/28/25 15:37 | | Eman | ок |
| 9 | Q2144-01 | OILY-DEBRIS-COMP | SAM | 05/28/25 15:45 | | Eman | ок |
| 10 | Q2144-02 | OILY-DEBRIS-COMP | SAM | 05/28/25 15:52 | | Eman | ок |
| 11 | Q2146-01 | TP04-MHN-WC | SAM | 05/28/25 16:00 | | Eman | ок |
| 12 | Q2146-04 | TP04-MHN-WC | SAM | 05/28/25 16:08 | | Eman | ок |
| 13 | Q2149-01 | FILTER-CAKE | SAM | 05/28/25 16:15 | | Eman | ок |



Instrument ID: WC PH METER-1

| Review By | jigr | nesh | Review On | 5/29/2025 3:47:24 PM |
|---------------|------|--------------------|-------------------|----------------------|
| Supervise By | lwc | ona | Supervise On | 5/30/2025 9:49:26 AM |
| SubDirectory | LB | 135949 | Test | Corrosivity |
| STD. NAME | | STD REF.# | | |
| ICAL Standard | | N/A | | |
| ICV Standard | | N/A | | |
| CCV Standard | | N/A | | |
| ICSA Standard | | N/A | | |
| CRI Standard | | N/A | | |
| LCS Standard | | N/A | | |
| Chk Standard | | W3178,W3093,W3191, | W3071,W3161,W3200 | |

| Sr# | Sampleld | ClientID | QcType | Date | Comment | Operator | Status |
|-----|-------------|--------------------|--------|----------------|---------|----------|--------|
| 1 | CAL1 | CAL1 | CAL | 05/29/25 13:25 | | Jignesh | ок |
| 2 | CAL2 | CAL2 | CAL | 05/29/25 13:26 | | Jignesh | ок |
| 3 | CAL3 | CAL3 | CAL | 05/29/25 13:30 | | Jignesh | ок |
| 4 | ICV | ICV | ICV | 05/29/25 13:35 | | Jignesh | ок |
| 5 | CCV1 | CCV1 | CCV | 05/29/25 13:40 | | Jignesh | ок |
| 6 | Q2136-05 | OR-646-COMP-52 | SAM | 05/29/25 13:50 | | Jignesh | ок |
| 7 | Q2143-01 | ELI-46-36-25-58-53 | SAM | 05/29/25 14:00 | | Jignesh | ок |
| 8 | Q2143-02 | ELI-57-43-35-26 | SAM | 05/29/25 14:10 | | Jignesh | ОК |
| 9 | Q2144-01 | OILY-DEBRIS-COMP- | SAM | 05/29/25 14:25 | | Jignesh | ок |
| 10 | Q2144-02 | OILY-DEBRIS-COMP- | SAM | 05/29/25 14:35 | | Jignesh | ок |
| 11 | Q2146-04 | TP04-MHN-WC | SAM | 05/29/25 14:45 | | Jignesh | ок |
| 12 | Q2149-01 | FILTER-CAKE | SAM | 05/29/25 14:50 | | Jignesh | ок |
| 13 | Q2151-04 | WC-1 | SAM | 05/29/25 15:00 | | Jignesh | ок |
| 14 | Q2151-04DUP | WC-1DUP | DUP | 05/29/25 15:01 | | Jignesh | ок |
| 15 | CCV2 | CCV2 | CCV | 05/29/25 15:10 | | Jignesh | ок |



Instrument ID: KONELAB

| Review By | rub | bina | Review On | 6/2/2025 11:22:57 AM |
|---------------|-----|--------------------|------------------------------|----------------------|
| Supervise By | lwo | ona | Supervise On | 6/2/2025 11:23:31 AM |
| SubDirectory | LB | 135966 | Test | Reactive Cyanide |
| STD. NAME | | STD REF.# | | |
| ICAL Standard | | WP113299,WP113300, | WP113301,WP113302,WP113303,W | /P113304,WP113305 |
| ICV Standard | | WP113306 | | |
| CCV Standard | | WP113300 | | |
| ICSA Standard | | N/A | | |
| CRI Standard | | N/A | | |
| LCS Standard | | N/A | | |
| Chk Standard | | WP112643,WP112900, | WP113307 | |
| | | | | |

| Sr# | SampleId | ClientID | QcType | Date | Comment | Operator | Status |
|-----|-------------|----------------------|--------|----------------|---------|----------|--------|
| 1 | 0.0PPBCN | 0.0PPBCN | CAL1 | 05/30/25 09:28 | | rubina | ОК |
| 2 | 5.0PPBCN | 5.0PPBCN | CAL2 | 05/30/25 09:28 | | rubina | ОК |
| 3 | 10PPBCN | 10PPBCN | CAL3 | 05/30/25 09:28 | | rubina | ок |
| 4 | 50PPBCN | 50PPBCN | CAL4 | 05/30/25 09:28 | | rubina | ок |
| 5 | 100PPBCN | 100PPBCN | CAL5 | 05/30/25 09:28 | | rubina | ОК |
| 6 | 250PPBCN | 250PPBCN | CAL6 | 05/30/25 09:28 | | rubina | ОК |
| 7 | 500PPBCN | 500PPBCN | CAL7 | 05/30/25 09:28 | | rubina | ОК |
| 8 | ICV1 | ICV1 | ICV | 05/30/25 13:46 | | rubina | ОК |
| 9 | ICB1 | ICB1 | ICB | 05/30/25 13:46 | | rubina | ОК |
| 10 | CCV1 | CCV1 | CCV | 05/30/25 13:46 | | rubina | ОК |
| 11 | CCB1 | CCB1 | ССВ | 05/30/25 13:46 | | rubina | ок |
| 12 | PB168189BL | PB168189BL | MB | 05/30/25 13:46 | | rubina | ОК |
| 13 | Q2143-01 | ELI-46-36-25-58-53 | SAM | 05/30/25 13:54 | | rubina | ОК |
| 14 | Q2143-01DUP | ELI-46-36-25-58-53DU | DUP | 05/30/25 13:54 | | rubina | ок |
| 15 | Q2144-01 | OILY-DEBRIS-COMP- | SAM | 05/30/25 13:54 | | rubina | ОК |
| 16 | Q2144-02 | OILY-DEBRIS-COMP- | SAM | 05/30/25 13:54 | | rubina | ОК |
| 17 | Q2146-04 | TP04-MHN-WC | SAM | 05/30/25 13:54 | | rubina | ок |
| 18 | Q2149-01 | FILTER-CAKE | SAM | 05/30/25 13:54 | | rubina | ОК |



Instrument ID: KONELAB

| Review By | rub | bina | Review On | 6/2/2025 11:22:57 AM |
|---------------|-----|---------------------|--------------------------------|----------------------|
| Supervise By | lwc | ona | Supervise On | 6/2/2025 11:23:31 AM |
| SubDirectory | LB | 135966 | Test | Reactive Cyanide |
| STD. NAME | | STD REF.# | | |
| ICAL Standard | | WP113299,WP113300,V | WP113301,WP113302,WP113303,WP1 | 13304,WP113305 |
| ICV Standard | | WP113306 | | |
| CCV Standard | | WP113300 | | |
| ICSA Standard | | N/A | | |
| CRI Standard | | N/A | | |
| LCS Standard | | N/A | | |
| Chk Standard | | WP112643,WP112900,V | NP113307 | |

| 19 | Q2151-04 | WC-1 | SAM | 05/30/25 13:54 | rubina | ОК |
|----|----------|-----------------|-----|----------------|--------|----|
| 20 | Q2159-04 | TP05-MHO-WC | SAM | 05/30/25 14:01 | rubina | ОК |
| 21 | Q2160-04 | TP04-MHG-WC | SAM | 05/30/25 14:01 | rubina | ОК |
| 22 | CCV2 | CCV2 | CCV | 05/30/25 14:01 | rubina | ОК |
| 23 | CCB2 | CCB2 | ССВ | 05/30/25 14:02 | rubina | ОК |
| 24 | Q2160-08 | TP05-MHH-WC | SAM | 05/30/25 14:02 | rubina | ОК |
| 25 | Q2143-02 | ELI-57-43-35-26 | SAM | 05/30/25 14:07 | rubina | ОК |
| 26 | CCV3 | CCV3 | CCV | 05/30/25 14:32 | rubina | ОК |
| 27 | ССВЗ | CCB3 | ССВ | 05/30/25 14:32 | rubina | ОК |



Instrument ID: TITRAMETRIC

| Review By | rub | ina | Review On | 6/2/2025 10:44:46 AM |
|---------------|-----|-------------------|--------------|----------------------|
| Supervise By | lwc | ona | Supervise On | 6/2/2025 11:14:48 AM |
| SubDirectory | LB | 135967 | Test | Reactive Sulfide |
| STD. NAME | | STD REF.# | | |
| ICAL Standard | | N/A | | |
| ICV Standard | | N/A | | |
| CCV Standard | | N/A | | |
| ICSA Standard | | N/A | | |
| CRI Standard | | N/A | | |
| LCS Standard | | N/A | | |
| Chk Standard | | W3105,W3114,W3149 | | |

| Sr# | SampleId | ClientID | QcType | Date | Comment | Operator | Status |
|-----|-------------|----------------------|--------|----------------|---------|----------|--------|
| 1 | PB168193BL | PB168193BL | MB | 05/30/25 16:30 | | rubina | ОК |
| 2 | Q2143-01 | ELI-46-36-25-58-53 | SAM | 05/30/25 16:33 | | rubina | ОК |
| 3 | Q2143-01DUP | ELI-46-36-25-58-53DU | DUP | 05/30/25 16:36 | | rubina | ОК |
| 4 | Q2143-02 | ELI-57-43-35-26 | SAM | 05/30/25 16:38 | | rubina | ОК |
| 5 | Q2144-01 | OILY-DEBRIS-COMP- | SAM | 05/30/25 16:40 | | rubina | ок |
| 6 | Q2144-02 | OILY-DEBRIS-COMP | SAM | 05/30/25 16:42 | | rubina | ок |
| 7 | Q2146-04 | TP04-MHN-WC | SAM | 05/30/25 16:43 | | rubina | ок |
| 8 | Q2149-01 | FILTER-CAKE | SAM | 05/30/25 16:45 | | rubina | ок |
| 9 | Q2151-04 | WC-1 | SAM | 05/30/25 16:47 | | rubina | ок |
| 10 | Q2159-04 | TP05-MHO-WC | SAM | 05/30/25 16:50 | | rubina | ок |
| 11 | Q2160-04 | TP04-MHG-WC | SAM | 05/30/25 16:52 | | rubina | ок |
| 12 | Q2160-08 | TP05-MHH-WC | SAM | 05/30/25 16:54 | | rubina | ок |
| 13 | Q2172-04 | TP06-MHQ | SAM | 05/30/25 16:56 | | rubina | ок |
| 14 | Q2173-06 | OR-400-CF-402B-CO | SAM | 05/30/25 16:58 | | rubina | ок |
| 15 | Q2173-12 | OR-400-CF-402B-CO | SAM | 05/30/25 17:01 | | rubina | ок |
| 16 | Q2173-18 | OR-400-CF-402B-CO | SAM | 05/30/25 17:03 | | rubina | ОК |



Prep Standard - Chemical Standard Summary

Order ID : Q2149

Test : Corrosivity,Ignitability,Percent Solids,Reactive Cyanide,Reactive Sulfide

Prepbatch ID : PB168189,PB168193,

Sequence ID/Qc Batch ID: LB135939,LB135949,LB135966,LB135967,

Standard ID :

WP111294,WP112643,WP112900,WP112995,WP113086,WP113298,WP113299,WP113300,WP113301,WP113302,WP113303,WP113304,WP113305,WP113306,WP113307,

Chemical ID :

M6151,W2668,W2725,W2926,W3019,W3071,W3093,W3105,W3112,W3113,W3114,W3139,W3149,W3154,W3161,W3 173,W3178,W3191,W3200,W3203,



| Recipe ID 11 | NAME Sodium hydroxide absorbing solution 0.25 N | <u>NO.</u> WP111294 | Prep Date 01/07/2025 | | <u>Prepared</u> <u>By</u> Niha Farheen Shaik | ScaleID WETCHEM_S CALE_5 (WC | <u>PipetteID</u> None | Supervised By Iwona Zarych 01/07/2025 |
|--------------------|---|------------------------|-------------------------|-----------------|---|------------------------------------|--------------------------|---|
| FROM | 21.00000L of W3112 + 210.00000gra | I am of W311: | 3 = Final Qua | ntity: 21.000 L | | SC-5) | | 0 |
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| Recipe | | | | Expiration | Prepared | | | Supervised By |
|---------------|----------------------------------|------------|---------------|-----------------|-----------------|----------------|-----------|---------------|
| ID | NAME | <u>NO.</u> | Prep Date | <u>Date</u> | <u>By</u> | <u>ScaleID</u> | PipettelD | Iwona Zarych |
| 539 | CN BUFFER | WP112643 | 04/09/2025 | 10/09/2025 | Niha Farheen | WETCHEM_S | None | 2 |
| | | | | | Shaik | CALE_5 (WC | | 04/09/2025 |
| FROM | 138.00000gram of W2668 + 862.000 | 00ml of W3 | 112 = Final Q | uantity: 1000.0 | 00 ml | SC-5) | | |
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Wet Chemistry STANDARD PREPARATION LOG

| Recipe ID 607 | NAME PYRIDINE-BARBITURIC ACID | <u>NO.</u> WP112900 | Prep Date 05/01/2025 | | Prepared By Rubina Mughal | ScaleID WETCHEM_S CALE_8 (WC | PipettelD Glass Pipette-A | Supervised By Iwona Zarych 05/01/2025 |
|---------------------|---|------------------------|-------------------------|----------------|---------------------------------|------------------------------------|--|---|
| FROM | 145.00000ml of W3112 + 15.00000gr ml | ram of W32(| 03 + 15.00000 |)ml of M6151 + | 75.00000ml of | SC-7) W3019 = Final | Quantity: 250. | 000 |

| | | | Expiration | Prepared | | | Supervised By |
|----------------------------------|-------------------------------------|---|--|---|---|--|--|
| NAME | <u>NO.</u> | Prep Date | <u>Date</u> | <u>By</u> | <u>ScaleID</u> | PipettelD | Jignesh Parikh |
| | WP112995 | 05/07/2025 | 07/07/2025 | lwona Zarych | None | | |
| 5PPM | | | | | | | 05/07/2025 |
| 1.00000ml of W3173 + 199.00000ml | of WP11129 | 94 = Final Qu | antity: 200.000 | ml | | (000) | |
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| | Cyanide LCS Spike Solution, 5PPM | Cyanide LCS Spike Solution, <u>WP112995</u> 5PPM | Cyanide LCS Spike Solution, <u>WP112995</u> 05/07/2025 5PPM | NAMENO.Prep DateDateCyanide LCS Spike Solution, 5PPMWP11299505/07/202507/07/2025 | NAMENO.Prep DateDateByCyanide LCS Spike Solution,WP11299505/07/202507/07/2025Iwona Zarych | NAMENO.Prep DateDateByScaleIDCyanide LCS Spike Solution, 5PPMWP11299505/07/202507/07/2025Iwona ZarychNone | NAMENO.Prep DateDateByScaleIDPipetteIDCyanide LCS Spike Solution, 5PPMWP11299505/07/202507/07/2025Iwona ZarychNoneWETCHEM_P IPETTE_3 (WC) |

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| <u>Recipe</u> <u>ID</u> 160 | NAME 0.5M ZINC ACETATE | <u>NO.</u> WP113086 | Prep Date 05/15/2025 | | <u>Prepared</u> <u>By</u> Rubina Mughal | CALE_8 (WC | <u>PipetteID</u> None | Supervised By Iwona Zarych 05/15/2025 |
|-----------------------------------|------------------------------------|------------------------|-------------------------|----------------|---|-------------------------------|--------------------------|---|
| FROM | 0.88900L of W3112 + 1.00000ml of N | 16151 + 110 |).00000gram c | of W2926 = Fir | nal Quantity: 100 | SC-7) 00.000 ml | | |
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| Recipe | | | Dura Data | Expiration | Prepared | 0IND | DivertialD | Supervised By |

| Recipe | | | | Expiration | Prepared | | | Supervised By |
|-------------|---|-----------------|---------------|-----------------|---------------|----------------|-----------------------|---------------|
| ID | NAME | <u>NO.</u> | Prep Date | <u>Date</u> | <u>By</u> | <u>ScaleID</u> | PipetteID | Iwona Zarych |
| 3456 | Cyanide Intermediate Working Std, 5PPM | <u>WP113298</u> | 05/30/2025 | 05/31/2025 | Rubina Mughal | None | WETCHEM_P IPETTE_3 | 06/02/2025 |
| <u>FROM</u> | 0.25000ml of W3154 + 49.75000ml o | of WP111294 | 1 = Final Qua | ntity: 50.000 n | nl | | (WC) | |
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| Recipe ID 4 | NAME Calibation standard 500 ppb | <u>NO.</u> WP113299 | Prep Date 05/30/2025 | | <u>Prepared</u> <u>By</u> Rubina Mughal | <u>ScaleID</u> None | PipettelD WETCHEM_P IPETTE_3 | Supervised By Iwona Zarych 06/02/2025 |
|-------------------|-------------------------------------|------------------------|-------------------------|-----------------|---|------------------------|------------------------------------|---|
| FROM | 45.00000ml of WP111294 + 5.00000 | ml of WP11 | 3298 = Final (| Quantity: 50.00 | 0 ml | | (WC) | |
| | | | | | | | | |

| Recipe | | | | Expiration | <u>Prepared</u> | | | Supervised By |
|---------------|----------------------------------|-----------------|----------------|-----------------|-----------------|----------------|------------------|---------------|
| ID | NAME | <u>NO.</u> | Prep Date | <u>Date</u> | <u>By</u> | <u>ScaleID</u> | PipettelD | Iwona Zarych |
| 3761 | | <u>WP113300</u> | 05/30/2025 | 05/31/2025 | Rubina Mughal | None | WETCHEM_P | |
| | ррb | | | | | | IPETTE_3 (WC) | 06/02/2025 |
| FROM | 2.50000ml of WP113298 + 47.50000 | ml of WP11 | 1294 = Final (| Quantity: 50.00 | 0 ml | | (000) | |
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| Recipe ID 6 | NAME Calibration Standard 100 ppb | <u>NO.</u> WP113301 | Prep Date 05/30/2025 | | <u>Prepared</u> <u>By</u> Rubina Mughal | <u>ScaleID</u> None | PipettelD WETCHEM_F IPETTE_3 | Supervised By Iwona Zarych 06/02/2025 |
|-------------------|--------------------------------------|------------------------|-------------------------|-----------------|---|------------------------|------------------------------------|---|
| FROM | 1.00000ml of WP113298 + 49.00000 | ml of WP11 | 1294 = Final (| Quantity: 50.00 | 0 ml | | (WC) | |
| | | | | | | | | |
| | | | | | | | | |
| Pasing | | | | Evaluation | Proposed | | | Supervised By |

| Recipe | | | | Expiration | Prepared | | | Supervised By |
|---------------|----------------------------------|------------|----------------|-------------------|-----------------|----------------|-----------|---------------|
| <u>ID</u> | NAME | <u>NO.</u> | Prep Date | <u>Date</u> | <u>By</u> | <u>ScaleID</u> | PipettelD | Iwona Zarych |
| 7 | Calibration Standard 50 ppb | WP113302 | 05/30/2025 | 05/31/2025 | Rubina Mughal | None | WETCHEM_P | |
| | | | | | | | IPETTE_3 | 06/02/2025 |
| FROM | 0.50000ml of WP113298 + 49.50000 | ml of WP11 | 1294 = Final (| Quantity: 50.00 | 0 ml | | (WC) | |
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| Recipe ID 8 | NAME Calibration Standard 10 ppb | <u>NO.</u> WP113303 | <u>Prep Date</u> 05/30/2025 | | <u>Prepared</u> <u>By</u> Rubina Mughal | <u>ScaleID</u> None | PipettelD WETCHEM_F IPETTE_3 | Supervised By Iwona Zarych 06/02/2025 |
|-------------------|-------------------------------------|-------------------------|--------------------------------|--------------------|---|------------------------|------------------------------------|---|
| FROM | 1.00000ml of WP113299 + 49.00000 | ml of WP11 ⁻ | 1294 = Final (| Quantity: 50.00 | 0 ml | | (WC) | |
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| <u>Recipe</u> | | | | Expiration | Prepared | | | Supervised By |
|---------------|----------------------------------|------------|----------------|-----------------|---------------|----------------|------------------|---------------|
| <u>ID</u> | NAME | <u>NO.</u> | Prep Date | <u>Date</u> | <u>By</u> | <u>ScaleID</u> | PipettelD | Iwona Zarych |
| 9 | Calibration Standard 5 ppb | WP113304 | 05/30/2025 | 05/31/2025 | Rubina Mughal | None | WETCHEM_P | |
| | | | | | | | IPETTE_3 (WC) | 06/02/2025 |
| FROM | 0.50000ml of WP113299 + 49.50000 | ml of WP11 | 1294 = Final (| Quantity: 50.00 | 00 ml | | (000) | |
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| Recipe ID 167 | NAME | <u>NO.</u> WP113305 | Prep Date 05/30/2025 | <u>Prepared</u> <u>By</u> Rubina Mughal | <u>ScaleID</u> None | <u>PipetteID</u> None | Supervised By Iwona Zarych 06/02/2025 |
|---------------------|-----------------------------------|------------------------|-------------------------|---|------------------------|--------------------------|---|
| FROM | 50.00000ml of WP111294 = Final Qu | uantity: 50.0 | 00 ml | | | | |

| <u>Recipe</u> <u>ID</u> | NAME | <u>NO.</u> | Prep Date | Expiration Date | <u>Prepared</u> <u>By</u> | <u>ScaleID</u> | <u>PipetteID</u> | Supervised By | | | |
|----------------------------|--|------------------|------------|--------------------|------------------------------|----------------|-----------------------|---------------|--|--|--|
| | | | | | | | | Iwona Zarych | | | |
| 2168 | RCN ICV STD, 100 PPB | <u>VVP113306</u> | 05/30/2025 | 05/31/2025 | Rubina Mughal | None | WETCHEM_P IPETTE_3 | 06/02/2025 | | | |
| FROM | FROM 1.00000ml of WP112995 + 49.00000ml of WP111294 = Final Quantity: 50.000 ml (WC) | | | | | | | | | | |
| <u></u> | | | | , | | | | | | | |
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| <u>Recipe</u> <u>ID</u> 1582 | NAME Chloramine T solution, 0.014M | <u>NO.</u> WP113307 | Prep Date 05/30/2025 | | Prepared By Rubina Mughal | ScaleID WETCHEM_S CALE_5 (WC | PipetteID Glass Pipette-A | Supervised By Iwona Zarych 06/02/2025 |
|------------------------------------|---------------------------------------|------------------------|-------------------------|------------------|---------------------------------|------------------------------------|--|---|
| FROM | 0.08000gram of W3139 + 20.00000n | nl of W3112 | I = Final Quan | utity: 20.000 ml | 1 | SC-5) | | |



| 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 | 08/18/2025 | 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 # |
| PCI Scientific Supply, Inc. | J3818-5 / SODIUM PHOSPHATE, MONOBAS/HYD, CRYS, ACS, 2.5 KG | 0000225799 | 12/03/2025 | 04/05/2021 / Alexander | 02/10/2020 / apatel | W2668 |
| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
| PCI Scientific Supply, Inc. | EMD-FX0410-5 / FORMALDEHYDE SOLUTION 450ML | 60045 | 06/22/2025 | 08/19/2024 / Iwona | 06/22/2020 / apatel | W2725 |
| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
| PCI Scientific Supply, Inc. | J4296-1 / ZINC ACETATE,DIHYD,CRYS,AC S,500G | 383058 | 07/05/2027 | 07/05/2022 / ketankumar | 07/05/2022 / ketankumar | W2926 |
| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
| SIGMA ALDRICH | 270970-1L / Pyridine 1L | SHBQ2113 | 04/03/2028 | 04/03/2023 / Iwona | 04/03/2023 / Iwona | W3019 |
| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
| PCI Scientific Supply, Inc. | AL14455-3 / buffer solution pH 7 yellow | 4308H30 | 07/31/2025 | 01/02/2024 / JIGNESH | 12/06/2023 / Iwona | W3071 |



| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # | |
|--------------------------------|---|----------|--------------------|----------------------------|--------------------------------|-------------------|--|
| PCI Scientific Supply, Inc. | 566002 / BUFFER PH 7.00 GREEN 1PINT PK6 | 44001f99 | 12/31/2025 | 04/03/2024 / jignesh | 04/02/2024 / jignesh | W3093 | |
| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # | |
| PCI Scientific Supply, Inc. | AL69870-8 / SODIUM THIOSULFATE,0.025N,4LIT RE | 4403S13 | 09/30/2025 | 04/22/2024 / Iwona | 04/22/2024 / Iwona | W3105 | |
| Supplier | ItemCode / ItemName | Lot # | Expiration | Date Opened / | Received Date / | Chemtech | |

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

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

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|--------------------------------|---|---------|--------------------|----------------------------|--------------------------------|-------------------|
| PCI Scientific Supply, Inc. | AL35830-4 / IODINE SOLUTION .025N 1L | 2405D89 | 05/31/2025 | 07/10/2024 / Iwona | 07/10/2024 / Iwona | W3114 |
| | | | | | | |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|--------------------------------|---|----------|--------------------|----------------------------|--------------------------------|-------------------|
| PCI Scientific Supply, Inc. | JTE494-6 / CHLORAMINE-T BAKER 250GM | 10239484 | 09/09/2029 | 09/09/2024 / Iwona | 09/09/2024 / Iwona | W3139 |



| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|--------------------------------|--|----------|--------------------|----------------------------|--------------------------------|-------------------|
| PCI Scientific Supply, Inc. | AL70850-8 / Starch Solution, 4L | 4408P62 | 08/31/2026 | 10/16/2024 / Iwona | 10/16/2024 / Iwona | W3149 |
| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
| PCI Scientific Supply, Inc. | RC2543-4 / CYANIDE STD 1000PPM 4OZ | 1411J58 | 05/31/2025 | 12/02/2024 / Iwona | 12/02/2024 / Iwona | W3154 |
| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
| PCI Scientific Supply, Inc. | AL13850-1 / Buffer Solution, PH2 (500ml) | 2411E26 | 10/31/2026 | 12/09/2024 / Iwona | 12/09/2024 / Iwona | W3161 |
| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
| PCI Scientific Supply, Inc. | LC135457 / Cyanide Standard, 1000 PPM, Second Source | 45010168 | 07/17/2025 | 01/24/2025 / Iwona | 01/24/2025 / Iwona | W3173 |
| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
| PCI Scientific Supply, Inc. | AL14055-3 / PH 4 BUFFER SOLUTION | 2411A93 | 10/30/2026 | 04/01/2025 / JIGNESH | 01/27/2025 / jignesh | W3178 |
| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
| PCI Scientific Supply, Inc. | 1601-1 / PH 10.01 BUFFER,COLOR CD 475ML | 2410F80 | 03/31/2026 | 04/01/2025 / JIGNESH | 03/13/2025 / jignesh | W3191 |



| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|------------------------------|---------------------------|---------|--------------------|----------------------------|--------------------------------|-------------------|
| RICCA CHEMICAL COMPANY | 1615-16 / pH 12.00 Buffer | 2504F20 | 09/30/2026 | 04/11/2025 / Iwona | 04/11/2025 / Iwona | W3200 |
| | ĺ | | i | 1 | [| |
| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |

RICCA CHEMICAL COMPANY®

W³07/ Mc 12/6/23 Certificate of Analysis 12

1490 Lammers Pike Batesville, IN 47006 http://www.riccachemical.com 1-888-GO-RICCA customerservice@riccachemical.com

Buffer, Reference Standard, pH 7.00 ± 0.01 at 25°C (Color Coded Yellow)

Lot Number: 4308H30

Product Number: 1551

Manufacture Date: AUG 09, 2023 Expiration Date: JUL 2025

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

| °C pH | 0 7.12 | 5 7.09 | $\begin{array}{c} 10 \\ 7.06 \end{array}$ | 15 7.04 | 20 7.02 | $\begin{array}{c} 25 \\ 7.00 \end{array}$ | 30 6.99 | 35 6.98 | $\begin{array}{c} 40 \\ 6.98 \end{array}$ | 45 6.97 | 50 6.97 | |
|----------|-----------|-----------|---|------------|------------|---|------------|------------|---|------------|------------|--|
| | | | | | | | | | | | | |

| Name | CAS# | Grade | |
|---------------------------------------|-----------------|----------------|-------------------------|
| Water | 7732-18-5 | ACS/ASTM/USP/I | RP |
| Sodium Phosphate Dibasic | 7558-79-4 | ACS | |
| Potassium Dihydrogen Phosphate | 7778-77-0 | ACS | |
| Preservative | Proprietary | | |
| Yellow Dye | Proprietary | 1111 B. Luce | |
| Sodium Hydroxide | 1310-73-2 | Reagent | |
| Test | Specification | Result | |
| Appearance | Yellow liquid | Passed | *Not a certified value |
| Test | Certified Value | Uncertainty | NIST SRM# |
| pH at 25°C (Method: SQCP027, SQCP033) | 7.002 | 0.02 | 186-I-g, 186-II-g, 191d |
| Specification | Re | ference | |
| Commercial Buffer Solutions | AS | TM (D 1293 B) | |
| Buffer A | | TM (D 5464) | |
| Buffer A | | ГМ (D 5128) | |

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

| Part Number | Size / Package Type | Shelf Life (Unopened Container) | |
|-------------|---------------------|---------------------------------|--|
| 1551-2.5 | 10 L Cubitainer® | 24 months | |
| 1551-5 | 20 L Cubitainer® | 24 months | |

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

Foul Brandon

Paul Brandon (08/09/2023) Production Manager This document is designed to comply with ISO Guide 31 "Reference Materials --Contents of Certificates and Labels."

This product was tested in an ISO 17025 Accredited Laboratory

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Sigma-Aldrich

W3019 Rec 4/3/23

3050 Spruce Street, Saint Louis, MO 63103, USA Website: www.sigmaaldrich.com Email USA: techserv@sial.com Outside USA: eurtechserv@sial.com

Product Name: Pyridine - anhydrous, 99.8%

| Product Number: | 270970 |
|-----------------------|--------------|
| Batch Number: | SHBQ2113 |
| Brand: | SIAL |
| CAS Number: | 110-86-1 |
| MDL Number: | MFCD00011732 |
| Formula: | C5H5N |
| Formula Weight: | 79.10 g/mol |
| Quality Release Date: | 15 DEC 2022 |

Certificate of Analysis

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

Larry Coers, Director Quality Control Sheboygan Falls, WI US

Z

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



Certificate of Analysis



| Date of Release: | 2/26/2020 |
|--------------------|---|
| Name: | Formaldehyde Solution GR ACS Meets ACS Specifications |
| Item No: | FX0410 all size codes |
| Lot / Batch No: | 60045 |
| Country of Origin: | USA |

| Characteristic | Requirement | | Results | Units |
|------------------------|-------------|-------|-------------|-------|
| | Min. | Max. | | |
| Assay | 36.5 | 38.0 | 36.71 | % |
| Chloride (Cl) | | 5 | <5 | ppm |
| Color (APHA) | | 10 | <10 | |
| Form | | | Passes test | |
| Heavy metals (as Pb) | | 5 | <5 | ppm |
| Iron (Fe) | | 5 | 0.6 | ppm |
| Residue after ignition | | 0.005 | <0.0050 | % |
| Sulfate (SO4) | | 0.002 | <0.0020 | % |
| Titrable acid | | 0.006 | <0.0060 | meq/g |

Heather Sinn,

Quality Control Manager

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

EMD Millipore Corporation, an affiliate of Merck KGaA, Darmstadt, Germany 290 Concord Road Billerica, MA 01821 U.S.A The life science business of Merck KGaA, Darmstadt, Germany operates as MilliporeSigma in the U.S. and Canada. Hydrochloric Acid, 36.5–38.0% BAKER INSTRA-ANALYZED® Reagent For Trace Metal Analysis





M6151

R-> 1/15/25

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 | D. L. |
|---|-------------------|-------------|
| ACS - Assay (as HCI) (by acid-base titrn) | | Result |
| ACS - Color (APHA) | 36.5 - 38.0 % | 37.9 % |
| ACS - Residue after Ignition | ≤ 10 | 5 |
| ACS - Specific Gravity at 60°/60°F | ≤ 3 ppm | < 1 ppm |
| ACS – Bromide (Br) | 1.185 - 1.192 | 1.191 |
| ACS - Extractable Organic Substances | ≤ 0.005 % | < 0.005 % |
| ACS – Free Chlorine (as Cl ₂) | ≤ 5 ppm | < 1 ppm |
| Phosphate (PO4) | ≤ 0.5 ppm | < 0.5 ppm |
| Sulfate (SO4) | ≤ 0.05 ppm | < 0.03 ppm |
| Sulfite (SO3) | ≤ 0.5 ppm | < 0.3 ppm |
| Ammonium (NH4) | ≤ 0.8 ppm | 0.3 ppm |
| Trace Impurities - Arsenic (As) | ≤ 3 ppm | < 1 ppm |
| Trace Impurities - Aluminum (Al) | ≤ 0.010 ppm | < 0.003 ppm |
| Arsenic and Antimony (as As) | ≤ 10.0 ppb | 1.3 ppb |
| Trace Impurities – Barium (Ba) | ≤ 5.0 ppb | < 3.0 ppb |
| | ≤ 1.0 ppb | 0.2 ppb |
| Trace Impurities – Beryllium (Be) | ≤ 1 .0 ppb | < 0.2 ppb |
| Trace Impurities - Bismuth (Bi) | ≤ 10.0 ppb | < 1.0 ppb |
| Trace Impurities – Boron (B) | ≤ 20.0 ppb | < 5.0 ppb |
| Trace Impurities - Cadmium (Cd) | ≤ 1.0 ppb | < 0.3 ppb |
| Trace Impurities - Calcium (Ca) | ≤ 50.0 ppb | 163.0 ppb |
| Trace Impurities – Chromium (Cr) | ≤ 1.0 ppb | 0.7 ppb |
| Trace Impurities - Cobalt (Co) | ≤ 1.0 ppb | < 0.3 ppb |
| Trace Impurities – Copper (Cu) | ≤ 1.0 ppb | < 0.1 ppb |
| Trace Impurities - Gallium (Ga) | ≤ 1.0 ppb | < 0.2 ppb |
| Trace Impurities - Germanium (Ge) | ≤ 3.0 ppb | < 2.0 ppb |
| Trace Impurities – Gold (Au) | ≤ 4.0 ppb | 0.6 ppb |
| Heavy Metals (as Pb) | ≤ 100 ppb | < 50 ppb |
| Trace Impurities – Iron (Fe) | ≤ 15 ppb | 6 ppb |
| | | |

>>> Continued on page 2 >>>

Hydrochloric Acid, 36.5-38.0% BAKER INSTRA-ANALYZED® Reagent For Trace Metal Analysis





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

| Test | Specification | Result |
|--|---------------|------------|
| Trace Impurities - Lead (Pb) | ≤ 1.0 ppb | < 0.5 ppb |
| Trace Impurities – Lithium (Li) | ≤ 1.0 ppb | < 0.2 ppb |
| Trace Impurities – Magnesium (Mg) | ≤ 10.0 ppb | 2.9 ppb |
| Trace Impurities – Manganese (Mn) | ≤ 1.0 ppb | < 0.4 ppb |
| Trace Impurities – Mercury (Hg) | ≤ 0.5 ppb | 0.1 ppb |
| Trace Impurities – Molybdenum (Mo) | ≤ 10.0 ppb | < 3.0 ppb |
| Trace Impurities – Nickel (Ni) | ≤ 4.0 ppb | < 0.3 ppb |
| Trace Impurities – Niobium (Nb) | ≤ 1.0 ppb | 0.8 ppb |
| Trace Impurities – Potassium (K) | ≤ 9.0 ppb | < 2.0 ppb |
| Trace Impurities – Selenium (Se), For Information Only | | < 1.0 ppb |
| Trace Impurities - Silicon (Si) | ≤ 100.0 ppb | < 10.0 ppb |
| Trace Impurities - Silver (Ag) | ≤ 1.0 ppb | 0.5 ppb |
| Trace Impurities – Sodium (Na) | ≤ 100.0 ppb | 2.3 ppb |
| Trace Impurities – Strontium (Sr) | ≤ 1.0 ppb | < 0.2 ppb |
| Trace Impurities – Tantalum (Ta) | ≤ 1.0 ppb | 1.6 ppb |
| Trace Impurities – Thallium (TI) | ≤ 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 |
| | | - FFF |

Hydrochloric Acid, 36.5-38.0% BAKER INSTRA-ANALYZED® Reagent For Trace Metal Analysis





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

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

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

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



Vice President Global Quality

Sodium Phosphate, Monobasic, Monohydrate, Crystal BAKER ANALYZED® A.C.S. Reagent

(sodium dihydrogen phosphate, monohydrate)





Material No.: 3818-05 Batch No.: 0000225799 Manufactured Date: 2018/12/05 Retest Date: 2025/12/03 Revision No: 1

Certificate of Analysis

Meets ACS Reagent Chemical Requirements,

| Test | Specification | Result |
|------------------------------|----------------|---------|
| Assay (NaH2PO4 · H2O) | 98.0 - 102.0 % | 99.5 |
| oH of 5% Solution at 25℃ | 4.1 - 4.5 | 4.3 |
| nsoluble Matter | <= 0.01 % | < 0.01 |
| Chloride (Cl) | <= 5 ppm | < 5 |
| ACS – Sulfate (SO4) | <= 0.003 % | < 0.003 |
| Calcium (Ca) | <= 0.005 % | <0.005 |
| Potassium (K) | <= 0.01 % | < 0.01 |
| leavy Metals (as Pb) | <= 0.001 % | < 0.001 |
| Frace Impurities – Iron (Fe) | <= 0.001 % | < 0.001 |

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

| Country of Origin: | IN |
|--------------------|--------------------|
| Packaging Site: | Paris Mfg Ctr & DC |

James Techie

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 Sigma-Aldrich

3050 Spruce Street, Saint Louis, MO 63103, USA Website: www.sigmaaldrich.com Email USA: techserv@sial.com Outside USA: eurtechserv@sial.com

Certificate of Analysis

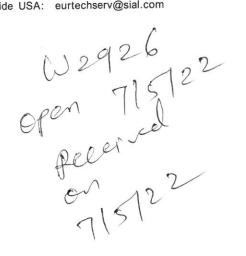
Product Name: CCTC Zinc acetate dihydrate - ACS reagent, ≥98%

| Product Number: |
|-----------------------|
| Batch Number: |
| Brand: |
| CAS Number: |
| MDL Number: |
| Formula: |
| Formula Weight: |
| Quality Release Date: |

MKCQ9159 SIGALD 5970-45-6 MFCD00066961 C4H6O4Zn · 2H2O 219.51 g/mol 06 JAN 2022

383058

Hyc 0 2n2+ + 2H2O



| Test | Specification | Result |
|------------------------|-------------------------------|--------------------|
| Appearance (Color) | White | White |
| Appearance (Form) | Powder or Crystal or Chunk(s) | Powder |
| Infrared Spectrum | Conforms to Structure | Conforms |
| Insoluble Matter | < 0.005 % | 0.003 % |
| Calcium (Ca) | < 0.005 % | 0.003 % |
| Chloride (Cl) | _ < 5 ppm | < 5 ppm |
| Iron (Fe) | < 5 ppm | < 5 ppm |
| Potassium (K) | < 0.01 % | 0.00 % |
| Magnesium (Mg) | < 0.005 % | 0.003 % |
| Sodium (Na) | < 0.05 % | 0.03 % |
| Lead (Pb) | < 0.002 % | < 0.001 % |
| pH | 6.0 - 7.0 | 6.1 |
| Sulfate (SO4) | < 0.005 % | < 0.005 % |
| Complexometric EDTA | 98.0 - 101.0 % | 100.3 % |
| Meets ACS Requirements | Meets Requirements | Meets Requirements |

Larry Coers, Director Quality Control Milwaukee, WI US

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

RICCA CHEMICAL COMPANY[®] 3^{003} 0^{001} Certificate of Analysis 0^{010}

1490 Lammers Pike Batesville, IN 47006 http://www.riccachemical.com 1-888-GO-RICCA customerservice@riccachemical.com

Manufacture Date: JAN 08, 2024

Expiration Date: DEC 2025

Buffer, Reference Standard, pH 7.00 ± 0.01 at 25°C (Color Coded Yellow)

Product Number: 1551

| °C pH | 0 7.12 | 5 7.09 | 10 7.06 | 15 7.04 | 20 7.02 | 25 7.00 | 30 6.99 | 35 6.98 | 40 6.98 | 45 6.97 | 50 6.97 | |
|-------------|-----------|-----------|------------|------------|------------|------------|------------|------------|------------|------------|------------|-------------------------|
| Name | | | | | | CA | S# | | 1.15 | Grade | | |
| Water | | | | | | 77 | 32-18-5 | | | ACS/AS | STM/USP/I | ξP |
| Sodiun | n Phosp | hate Di | basic | | | 758 | 58-79-4 | - | | ACS | | |
| Potass | ium Dił | nydrogen | n Phospi | hate | | 77 | 78-77-0 | | | ACS | | |
| Preserv | vative | | | | | Pro | prietar | У | | | | |
| Yellow | Dye | | | | • | | prietar | | | | | |
| Sodium | n Hydro | xide | | | | | .0-73-2 | · . | | | | |
| Test | | | | | | 1.1 | Spec | ification | 1 | Re | sult | |
| Appear | ance | | | | LEC. | | Yell | ow liqui | d | Pas | ssed | *Not a certified value |
| <u>Fest</u> | Sec. | | | | 54- | | Cert | ified Va | lue | Un | certainty | NIST SRM# |
| pH at 2 | 5°C (M | ethod: S | QCP02 | 7, SQCP | 033) | | 7.004 | 4 | | 0.0 | 2 | 186-I-g, 186-II-g, 191d |
| Specific | ation | | 1 | | | J. | - 21 | - 11 | Refe | rence | | |
| Comme | rcial Bu | ffer Sol | utions | | | | | | ASTN | A (D 1293 | B) | |
| Buffer A | | | | | | | | | | A (D 5464 | | |
| Buffer A | 1 | | | | | | | | ASTN | 4 (D 5128 | | |

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

| Part Number | Size / Package Type | Shelf Life (Unopened Container) |
|-------------------------|---------------------|---------------------------------|
| 1551-1 | 4 L natural poly | 24 months |
| 1551-1CT | 4 L Cubitainer® | 24 months |
| 1551-2.5 | 10 L Cubitainer® | 24 months |
| 1551-5 | 20 L Cubitainer® | 24 months |
| Decommonded Steven 1500 | 2000 (F00) - 000T) | |

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

Lot Number: 4401F99

Paul Drondon

Paul Brandon (01/08/2024) Production Manager This document is designed to comply with ISO Guide 31 "Reference Materials --Contents of Certificates and Labels."

This product was tested in an ISO 17025 Accredited Laboratory

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W3105 Received on 4/22/24 by IZ

Certificate of Analysis

Sodium Thiosulfate, 0.0250 Normal (N/40)

Lot Number: 4403S13

Product Number: 7900

Manufacture Date: MAR 29, 2024 Expiration Date: SEP 2025

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

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

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

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

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

| Part Number | Size / Package Type | Shelf Life (Unopened Container) |
|-------------|---------------------|---------------------------------|
| 7900-1 | 4 L natural poly | 18 months |
| 7900-16 | 500 mL natural poly | 18 months |
| 7900-1CT | 4 L Cubitainer® | 18 months |
| 7900-32 | 1 L natural poly | 18 months |
| D 110/ 1500 | | |

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

Fand Brandon

Paul Brandon (03/29/2024) Production Manager This document is designed to comply with ISO Guide 31 "Reference Materials --Contents of Certificates and Labels."

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



Certificate of Analysis



Sodium Hydroxide (Pellets)

Material:0583Grade:ACS GRADEBatch Number:23B1556310

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

Pellets

| TEST | SPECIFICATION | ANALYSIS | DISPOSITION |
|--------------------|---------------|----------|-------------|
| Calcium | <= 0.005 % | <0.005 % | PASS |
| Chloride | <= 0.005 % | 0.002 % | PASS |
| Heavy Metals | <= 0.002 % | <0.002 % | PASS |
| Iron | <= 0.001 % | <0.001 % | PASS |
| Magnesium | <= 0.002 % | <0.002 % | PASS |
| Mercury | <= 0.1 ppm | <0.1 ppm | PASS |
| Nickel | <= 0.001 % | <0.001 % | PASS |
| Nitrogen Compounds | <= 0.001 % | <0.001 % | PASS |
| Phosphate | <= 0.001 % | <0.001 % | PASS |
| Potassium | <= 0.02 % | <0.02 % | PASS |
| Purity | >= 97.0 % | 99.2 % | PASS |
| Sodium Carbonate | <= 1.0 % | 0.5 % | PASS |
| Sulfate | <= 0.003 % | <0.003 % | PASS |

Internal ID #: 710

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



Certificate of Analysis



Sodium Hydroxide (Pellets)

Material:0583Grade:ACS GRADEBatch Number:23B1556310

 Chemical Formula:
 NaOH
 Manufacture Date:
 12/14/2022

 Molecular Weight:
 40
 Expiration Date:
 12/31/2025

 CAS #:
 1310-73-2
 Storage:
 Room Temperature

Spec Set: 0583ACS

Internal ID #: 710

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

RICCA CHEMICAL COMPANY[®]

Manufacture Date: MAY 10, 2024

Certificate of Analysis

Iodine (Iodine-Iodide), 0.0250 Normal (N/40), 1 mL = 0.4008 mg S^2

Product Number: 3975

| Lot Number: 2405D89 Product | 5 Number: 3975 | | Expiration Da | ate: MAY 2025 |
|---------------------------------------|-------------------|---------|-------------------|---------------|
| Name | CAS# | Grade | | |
| Water | 7732-18-5 | ACS/A | STM/USP/EP | |
| Potassium Iodide | 7681-11-0 | ACS | | |
| Iodine | 7553-56-2 | ACS | | |
| Test | Specification | | Result | NIST SRM# |
| Appearance | Dark brown liquid | | Passed | |
| Assay (vs. Sodium Thiosulfate/Starch) | 0.02498-0.02502 N | at 20°C | 0.02502 N at 20°C | 136 |

| Specification | Reference |
|---|---------------------|
| Standard Iodine Solution, 0.0250 N | APHA (4500-S2- F) |
| Iodine Solution (approximately 0.025 N) | EPA (SW-846) (9031) |
| Standard Iodine Solution, 0.0250 N | EPA (376.1) |
| Iodine Solution (approximately 0.025 N) | EPA (SW-846) (9034) |

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

| Part Number | Size / Package Type | Shelf Life (Unopened Container) |
|-------------|---------------------|---------------------------------|
| 3975-1 | 4 L amber glass | 12 months |
| 3975-16 | 500 mL amber glass | 12 months |
| 3975-32 | 1 L amber glass | 12 months |
| | , | |

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

Jose Pena (05/10/2024) **Operations Manager**

Lot Number: 2405D89

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W3139 Received on 9/9/24 by IZ

Product No.:

A12044

Product: Chloramine-T trihydrate, 98%

Lot No.: 10239484

Appearance: Melting Point: Assay (lodometric titration): Identification (FTIR): White powder 166°C(dec) 100.5% Conforms

Order our products online thermofisher.com/chemicals

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

Products are processed under ISO 9001:2015 quality management systems and samples are tested for conformance to the noted specifications. Certain data may have been supplied by third parties. We disclaim the implied warranties of merchantability and fitness for a particular purpose, and the accuracy of third party data or information associated with the product. Products are for research and development use only. Products are not for direct administration to humans or animals. It is the responsibility of the final formulator or end user to determine suitability, and to qualify and/or validate each product for its intended use.

W3149 Received on 10/16/24 by IZ

Certificate of Analysis

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

Lot Number: 4408P62

Product Number: 8000

Manufacture Date: AUG 28, 2024 Expiration Date: AUG 2026

1490 Lammers Pike Batesville, IN 47006

1-888-GO-RICCA

http://www.riccachemical.com

customerservice@riccachemical.com

This product is Mercury-free.

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

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

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

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

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

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

Paul Brandon

Paul Brandon (08/28/2024) Production Manager

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W3154 Rec. on 12/2/24 by IZ

Certificate of Analysis

RICCA CHEMICAL COMPANY®

Cyanide Standard, 1000 ppm CN

Lot Number: 1411J58

Product Number: 2543

Manufacture Date: NOV 22, 2024

Expiration Date: MAY 2025

This standard is prepared using accurate volumetric techniques from material that has been assayed against Silver Nitrate solution certified traceable to NIST Standard Reference Material 999. The certified value reported is the prepared value based upon the method of preparation of the material. The uncertainty in the prepared value is the combined uncertainty based on the stability of the assayed Potassium Cyanide, and the uncertainty in the mass and volume measurements.

Use 0.16% (w/v) (0.04 N) Sodium Hydroxide or 0.225% (w/v) (0.04 N) Potassium Hydroxide to make dilutions of this standard. Restandardize weekly if extreme accuracy is required.

| Name | CAS# | Grade |
|-------------------|-----------|-----------------|
| Water | 7732-18-5 | ACS/ASTM/USP/EP |
| Potassium Cyanide | 151-50-8 | ACS |
| Sodium Hydroxide | 1310-73-2 | Reagent |

| Test | Specification | Result |
|--------------|------------------|----------|
| Appearance | Colorless liquid | Passed |
| Cyanide (CN) | 995-1005 ppm | 1000 ppm |

| Specification | Reference |
|---|------------------------|
| Stock Standard Cyanide Solution | APHA (4500-CN- F) |
| Stock Cyanide Solution | APHA (4500-CN- E) |
| Stock Cyanide Solution | APHA (4500-CN- K) |
| Stock Cyanide Solution | АРНА (4500-СN- Н) |
| Cyanide Reference Solution (1000 mg/L) | EPA (SW-846) (7.3.3.2) |
| Cyanide Calibration Stock Solution (1,000 mg/L CN·) | EPA (SW-846) (9213) |
| Stock Cyanide Solution | EPA (335.3) |
| Stock Cyanide Solution | EPA (335.2) |
| Cyanide Solution Stock | ASTM (D 4282) |
| Simple Cyanide Solution, Stock (1.0 g/L CN) | ASTM (D 4374) |
| | |

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

| Part Number | Size / Package Type | Shelf Life (Unopened Container) |
|-------------|---------------------|---------------------------------|
| 2543-16 | 500 mL amber poly | 6 months |
| 2543-32 | 1 L amber poly | 6 months |
| 2543-4 | 120 mL amber poly | 6 months |
| | | |

Recommended Storage: 2°C - 8°C (36°F - 46°F)

fill

Luis Briceno (11/22/2024) Operations Supervisor

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RICCA CHEMICAL COMPANY[®] W3161 Rec. on 12/09/24 by IZ

Certificate of Analysis

Buffer, Reference Standard, pH 2.00 ± 0.01 at 25° C

| Lot Number: | 2411E26 | Pr |
|-------------|---------|----|
|-------------|---------|----|

oduct Number: 1493

1841 Broad Street Pocomoke City, MD 21851 http://www.riccachemical.com 1-888-GO-RICCA customerservice@riccachemical.com

Manufacture Date: NOV 11, 2024

Expiration Date: OCT 2026

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

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

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

| Test | Specification | Result | |
|---------------------------------------|------------------|-------------|-------------------------|
| Appearance | Colorless liquid | Passed | *Not a certified value. |
| Test | Certified Value | Uncertainty | NIST SRM# |
| pH at 25°C (Method: SQCP027, SQCP033) | 1.994 | 0.02 | 185i, 186-I-g, 186-II-g |

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

| Part Number | Size / Package Type | Shelf Life (Unopened Container) | | | | | | |
|--|---------------------|---------------------------------|--|--|--|--|--|--|
| 1493-1 | 4 L natural poly | 24 months | | | | | | |
| 1493-16 | 500 mL natural poly | 24 months | | | | | | |
| 1493-1CT | 4 L Cubitainer® | 24 months | | | | | | |
| 1493-2.5 | 10 L Cubitainer® | 24 months | | | | | | |
| 1493-32 | 1 L natural poly | 24 months | | | | | | |
| Recommended Storage: 15°C - 30°C (59°F - 86°F) | | | | | | | | |

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

()

Jose Pena (11/11/2024) Operations Manager

This product was tested in an ISO 17025 Accredited Laboratory

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Part of TCP Analytical Group

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

Certificate of Analysis

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

| Product Code: | LC13545 | | Manufacture Date: January 16, 2025 | | | | |
|-----------------------|----------|--------------------|------------------------------------|--|--|--|--|
| Lot Number: | 45010168 | | Expiration Date: July 17, 2025 | | | | |
| Test | | Specification | Result | | | | |
| Appearance (cla | arity) | clear solution | clear solution | | | | |
| Appearance (color) | | colorless | colorless | | | | |
| Concentration (CN) | | 0.990 - 1.010mg/mL | 1.000mg/mL | | | | |
| Concentration (CN) | | 990 - 1,010ppm | 1,000ppm | | | | |
| Traceable to NIST SRM | | Report | 999b | | | | |

Intended Use - Product is intended for use in manufacturing procedures and laboratory procedures and protocols.

Storage Information - Unless noted on the product label, store the product under normal lab conditions in its tightly closed, original container. Do not pipet directly from the container or return unused portions to the container.

Instructions for Handling and Use - Please refer to the associated product label and Safety Data Sheet (SDS) for information regarding safety and handling of this product.

Preparation - All products are manufactured and tested according to established, documented procedures and methodology. Production documentation records manufacturing data, raw material traceability and testing history on a per lot basis. Balances, thermometers, and glassware are calibrated before first use and on a regular schedule with references traceable to NIST

The suffix of the product code may differ from what is on your product label. The suffix will designate the size and be associated with a numeric digit(s). Visit LabChem.com for more information

| Suffix | 1 | 2 | 3/35/36/365 | 4/4C | 5 | 6 | 7 | 8 | 9 | 20 | 44 | 200 | 246 | 486 |
|--------|------------|-----------|---------------------------------------|------|-----|-----|-------|-----|------|---------|------|------|--------|--------|
| Size | 500mL or g | 1L or 1kg | 2.5L/2.5L Coated/6x2.5L/6x2.5L Coated | 4L | 20L | 10L | 125mL | 25g | 100g | 20x20mL | 4x4L | 200L | 24x6mL | 48x6mL |

Michael Montelsone

Michael Monteleone Chemistry Supervisor - Quality Control 2025011610:36:11bsturges-0-0

RICCA CHEMICAL COMPANY®

Certificate of Analysis

1841 Broad Street Pocomoke City, MD 21851 http://www.riccachemical.com 1-888-GO-RICCA customerservice@riccachemical.com

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231

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

(ed) Manufacture Date: NOV 04, 2024 Expiration Date: OCT 2026

The certified value for this product is confirmed in independent testing by a second qualified chemist. The NIST Traceable pH value is certified to ±0.01 at 25 °C only. All other pH values at their correspondence of the test of te

Lot Number: 2411A93

| 00 | 0 | F | 10 | | | 0 01117.21 | n other b | i varues a | it their co | rrespondi | ng tempera | tures are accurate to ± 0.05 . |
|----|------|-----------|------------|----|----|------------|-----------|------------|-------------|-----------|------------|------------------------------------|
| рH | 4.00 | о 4.00 | 10 4.00 | 15 | 20 | 25 4.00 | 30 | 35 | 40 | 45 | 50 4.06 | |

Product Number: 1501

| Name | CAS# | Grade | |
|---|--|--|---|
| Water Potassium Acid Phthalate Preservative Red Dye | 7732-18-5 877-24-7 Proprietary Proprietary | ACS/ASTM/USP/ Buffer Commercial Purified | EP |
| Test | Specification | Result | |
| Appearance | Red liquid | Passed | *Not a certified value |
| Test | Certified Value | Uncertainty | NIST SRM# |
| pH at 25°C (Method: SQCP027, SQCP033) | 4.008 | 0.02 | 185i, 186-I-g, 186-II-g |
| Specification | Ref | Brence | |
| Commercial Buffer Solutions Buffer B Buffer B pH measurements were performed in our Pocomoke City, M certified traceable to National Institute of Standards and T chain of comparisons. The uncertainty is calculated from th the NIST Standard Reference Material, and the uncertainty 5% coverage in a normal distribution. Volumetric glasswar t is calibrated before first use and recalibrated regularly in alibrated regularly with weights certified traceable to the N effore first use and recalibrated regularly with a thermomer | AST AST AST ID laboratory under ISO/IEC 1702 echnology (NIST) Standard Refere e uncertainty of the measurement y of the measurement process. The re complies with Class A tolerance | M (D 1293 B) M (D 5464) M (D 5128) 5 accreditation (ANAB Conce Material as indicated variation from sample to uncertainty is multiplied requirements of ASTM E NIST Procedure NBSIR | above via an unbroken sample, the uncertainty in by k=2, corresponding to 288 and NIST Circular 434; 74:461 Belance are |

| | Size / Package Type | Shelf Life (Il nonenai () |
|--|---|---|
| 1501-16 1501-2.5 1501-5 Recommended Storage: 15°C - 3 | 500 mL natural poly 10 L Cubitainer® 20 L Cubitainer® | Shelf Life (Unopened Container) 24 months 24 months 24 months 24 months |
| Storage, 10 C . 3 | U°C (59°F - 86°F) | |

CCA CHEMICAL COMPANY U3191

1841 Broad Street Pocomoke City, MD 21851 http://www.riccachemical.com 1·888-GO-RICCA customerservice@riccachemical.com

Certificate of Analysis

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

Lot Number: 2410F80

1000

Product Number: 1601

Manufacture Date: OCT 09, 2024 Expiration Date: MAR 2026

Page 1 of 2

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

| °C | | | | | 01 00 <u>20</u> | Сощу. Al | 1 other pl | 1 values a | t their con | respondi | na tommore to |
|------------|-------|-------|-------|-------|-----------------|----------|------------|------------|-------------|-----------|--|
| \cup | 0 | 5 | 10 | 15 | 20 | 05 | | | | a coponal | ng temperatures are accurate to ± 0.05 . |
| $_{ m pH}$ | 10.31 | 10.23 | 10.17 | 10 11 | 10.05 | 25 | 30 | 35 | 40 | 50 | |
| | | | | 10.11 | 10.00 | 10.00 | 9.95 | 9.91 | 9.87 | 9.81 | |

| Name | CAS# | Grade | The second s | |
|---|---|--|---|--|
| Water | 7732-18-5 | | | |
| Sodium Carbonate | The second se | ACS/ASTM/USP/ | ΈP | |
| Sodium Bicarbonate | 497-19-8 | ACS | | |
| Sodium Hydroxide | 144-55-8 | ACS | | |
| Preservative | 1310-73-2 | Reagent | | |
| Blue Dye | Proprietary | | in the second | |
| | Proprietary | | | |
| Test | (1 an | | Report Ramon man | |
| Appearance | Specification | Result | | |
| Fest | Blue liquid | Passed | *Not a certified valu | |
| · · · · · · · · · · · · · · · · · · · | Certified Value | Uncertainty | NIST SRM# | |
| oH at 25°C (Method: SQCP027, SQCP033) | 10.009 | the second s | | |
| Specification | | 0.02 | 186-I-g, 186-II-g, 191d | |
| Commercial Buffer Solutions | Refe | | | |
| Buffer C | AST | | | |
| Buffer C | | M (D 5464) | × 80 T. 10 . 2010 T. 10 10 | |
| pH measurements were performed in our Possenale. City | AST | | | |

pH measurements were performed in our Pocomoke City, MD laboratory under ISO/IEC 17025 accreditation (ANAB Certificate L2387.01) and are certified traceable to National Institute of Standards and Technology (NIST) Standard Reference Material as indicated above via an unbroken chain of comparisons. The uncertainty is calculated from the uncertainty of the measurement variation from sample to sample, the uncertainty in the NIST Standard Reference Material, and the uncertainty of the measurement process. The uncertainty is multiplied by k=2, corresponding to 95% coverage in a normal distribution. Volumetric glassware complies with Class A tolerance requirements of ASTM E 288 and NIST Circular 434; calibrated before first use and recalibrated regularly in accordance with ASTM E 542 and NIST Procedure NBSIR 74-461. Balances are 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 | QL-167 'F Ary |
|-------------|--|---------------------------------|
| 1601-1 | | Shelf Life (Unopened Container) |
| | E00 T | 18 months |
| 1601-1CT | 500 mL natural poly 4 L Cubitainer® | 18 months |
| 1601-2.5 | | 18 months |
| 1001-32 | | |
| 1601-5 | + D natural poly | 18 months |
| ersion: 1.3 | | 10 HIUH.HS |
| | Lot Number: 2410F80 Product Nu | |

RICCA CHEMICAL COMPANY®

W3200 Received on 04/11/2025 by IZ

Certificate of Analysis

Buffer, Reference Standard, pH 12.00 ± 0.01 at 25° C

C

Lot Number: 2504F20 Product Number: 1615

Manufacture Date: APR 08, 2025 Expiration Date: SEP 2026

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

| °C | 15 | 20 | 25 | 30 | 35 | 40 | |
|----|-------|-------|-------|-------|-------|-------|--|
| pН | 12.35 | 12.17 | 11.99 | 11.78 | 11.62 | 11.46 | |

| Name | CAS# | Grade | |
|--------------------|-----------|--------------------|--|
| Water | 7732-18-5 | ACS/ASTM/USP/EP | |
| Potassium Chloride | 7447-40-7 | ACS | |
| Sodium Hydroxide | 1310-73-2 | Reagent (from ACS) | |

| Test | Specification | Result | |
|---------------------------------------|------------------|-------------|-------------------------|
| Appearance | Colorless liquid | Passed | *Not a certified value. |
| Test | Certified Value | Uncertainty | NIST SRM# |
| pH at 25°C (Method: SQCP027, SQCP033) | 12.009 | 0.02 | 186-I-g. 186-II-g. 191d |

pH at 25°C (Method: SQCP027, SQCP033) 12.009 0.02 186-I-g, 186-II-g, 191d pH measurements were performed in our Pocomoke City, MD laboratory under ISO/IEC 17025 accreditation (ANAB Certificate L2387.01) and are certified traceable to National Institute of Standards and Technology (NIST) Standard Reference Material as indicated above via an unbroken chain of comparisons. The uncertainty is calculated from the uncertainty of the measurement variation from sample to sample, the uncertainty in the NIST Standard Reference Material, and the uncertainty of the measurement process. The uncertainty is multiplied by k=2, corresponding to 95% coverage in a normal distribution. Volumetric glassware complies with Class A tolerance requirements of ASTM E 288 and NIST Circular 434; it is calibrated before first use and recalibrated regularly in accordance with ASTM E 542 and NIST Procedure NBSIR 74-461. Balances are calibrated regularly with weights certified traceable to the NIST national mass standard. Thermometers and temperature probes are calibrated before first use and recalibrated regularly with a thermometer traceable to NIST standards. All products are prepared according to master documents that assure manufacture according to validated methods. Batch records document raw material traceability and production and testing history for each lot manufactured.

| Part Number | Size / Package Type | Shelf Life (Unopened Container) |
|-------------|--|---------------------------------|
| 1615-1 | 4 L natural poly | 18 months |
| 1615-16 | 500 mL clear PET-G | 18 months |
| 1615-5 | 20 L Cubitainer® | 18 months |
| | ······································ | |

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

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Jose Pena (04/08/2025) Operations Manager

This product was tested in an ISO 17025 Accredited Laboratory

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3050 Spruce Street, Saint Louis, MO 63103, USA Website: www.sigmaaldrich.com Email USA: techserv@sial.com Outside USA: eurtechserv@sial.com

Certificate of Analysis

Product Name: Barbituric acid - ReagentPlus® , 99%

| Product Number: Batch Number: Brand: CAS Number: Formula: Formula: | 185698 WXBF3271V SIAL 67-52-7 C4H4N2O3 128.09. g/mol | |
|---|---|--------------|
| Formula Weight: Quality Release Date: | 128,09 g/mol 16 MAY 2024 | O' N SO H |
| | | |

| Test | Specification | Result | |
|----------------------------|-----------------------|----------|--|
| Appearance (Colour) | White to Off-White | White | |
| Appearance (Form) | Pow der | Powder | |
| Infrared spectrum | Conforms to Structure | Conforms | |
| Purity (Titration by NaOH) | 98.5 - 101.5 % | 100.4 % | |
| GC (area %) | <u>></u> 98 % | 100 % | |
| VPCT | _ | | |



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





PERCENT SOLID

Supervisor: Iwona Analyst: jignesh Date: 5/29/2025

OVENTEMP OUT Celsius(°C): 103 Time OUT: 08:11 Out Date: 05/29/2025 Weight Check 1.0g: 1.00 Weight Check 10g: 10.00 BalanceID: M SC-4 Thermometer ID: % SOLID- OVEN

OVENTEMP IN Celsius (°C): 107 Time IN: 17:00 In Date: 05/28/2025 Weight Check 1.0g: 1.00 Weight Check 10g: 10.00 OvenID: M OVEN#1

QC:LB135934

| Lab ID | Client SampleID | Dish # | Dish Wt(g) (A) | Sample Wt(g) | Dish + Sample Wt(g)(B) | Dish+Dry Sample Wt(g)(C) | % Solid | Comments |
|----------|--------------------|-----------|----------------------|-----------------|------------------------------|--------------------------------|------------|-----------------|
| Q2135-01 | 1977 | 1 | 1.00 | 1.00 | 2.00 | 2.00 | 100.0 | caluk |
| Q2136-01 | OR-646-COMP-52 | 2 | 1.18 | 10.37 | 11.55 | 10.04 | 85.4 | |
| Q2136-02 | OR-646-VOC-52 | 3 | 1.15 | 10.30 | 11.45 | 9.45 | 80.6 | |
| Q2136-03 | OR-646-154 | 4 | 1.19 | 10.53 | 11.72 | 9.58 | 79.7 | |
| Q2136-04 | OR-646-155 | 5 | 1.19 | 10.00 | 11.19 | 8.97 | 77.8 | |
| Q2137-01 | MOO-25-0149 | 6 | 1.00 | 1.00 | 2.00 | 2.00 | 100.0 | debris |
| Q2137-02 | MOO-25-0149 | 7 | 1.00 | 1.00 | 2.00 | 2.00 | 100.0 | debris |
| Q2138-01 | SMALL-CONCRETE-PAD | 8 | 1.00 | 1.00 | 2.00 | 2.00 | 100.0 | CONCRETE sample |
| Q2139-01 | BELL-25-0010 | 9 | 1.00 | 1.00 | 2.00 | 2.00 | 100.0 | debris |
| Q2139-02 | BELL-25-0010 | 10 | 1.00 | 1.00 | 2.00 | 2.00 | 100.0 | debris |
| Q2140-01 | КМН5090-1-1 | 11 | 1.00 | 1.00 | 2.00 | 2.00 | 100.0 | wipe sample |
| Q2140-02 | КМН5090-1-2 | 12 | 1.00 | 1.00 | 2.00 | 2.00 | 100.0 | wipe sample |
| Q2141-01 | VNJ-215 | 13 | 1.00 | 1.00 | 2.00 | 2.00 | 100.0 | CONCRETE sample |
| Q2142-01 | Y2309-0029-1-1 | 14 | 1.00 | 1.00 | 2.00 | 2.00 | 100.0 | wipe sample |
| Q2142-02 | Y2309-0029-1-2 | 15 | 1.00 | 1.00 | 2.00 | 2.00 | 100.0 | wipe sample |
| Q2143-01 | ELI-46-36-25-58-53 | 16 | 1.00 | 1.00 | 2.00 | 2.00 | 100.0 | debris |
| Q2143-02 | ELI-57-43-35-26 | 17 | 1.14 | 10.32 | 11.46 | 11.03 | 95.8 | |
| Q2144-01 | OILY-DEBRIS-COMP-A | 18 | 1.00 | 1.00 | 2.00 | 2.00 | 100.0 | debris |
| Q2144-02 | OILY-DEBRIS-COMP-B | 19 | 1.18 | 10.04 | 11.22 | 10.55 | 93.3 | |
| Q2146-01 | TP04-MHN-WC | 20 | 1.15 | 9.93 | 11.08 | 9.08 | 79.9 | |
| Q2146-02 | TP04-MHN-VOC | 21 | 1.19 | 10.53 | 11.72 | 10.27 | 86.2 | |
| Q2146-03 | TP04-MHN-EPH | 22 | 1.12 | 10.87 | 11.99 | 8.21 | 65.2 | |
| Q2147-01 | WASTE | 23 | 1.18 | 10.78 | 11.96 | 10.00 | 81.8 | |
| Q2147-02 | VOC | 24 | 1.14 | 10.53 | 11.67 | 9.82 | 82.4 | |
| Q2147-03 | 1 | 25 | 1.18 | 10.71 | 11.89 | 10.41 | 86.2 | |
| Q2147-04 | 2 | 26 | 1.17 | 10.64 | 11.81 | 10.23 | 85.2 | |
| Q2147-05 | 3 | 27 | 1.13 | 10.66 | 11.79 | 10.33 | 86.3 | |
| Q2147-06 | 4 | 28 | 1.16 | 10.68 | 11.84 | 10.26 | 85.2 | |



Supervisor: Iwona
Analyst: jignesh
Date: 5/29/2025

OVENTEMP OUT Celsius(°C): 103 Time OUT: 08:11 Out Date: 05/29/2025 Weight Check 1.0g: 1.00 Weight Check 10g: 10.00 BalanceID: M SC-4 Thermometer ID: % SOLID- OVEN

OVENTEMP IN Celsius (°C): 107 Time IN: 17:00 In Date: 05/28/2025 Weight Check 1.0g: 1.00 Weight Check 10g: 10.00 OvenID: M OVEN#1

QC:LB135934

| Lab ID | Client SampleID | Dish # | Dish Wt(g) (A) | Sample Wt(g) | Sample | Dish+Dry Sample Wt(g)(C) | % Solid | Comments |
|----------|-----------------|-----------|----------------------|-----------------|--------|--------------------------------|------------|----------|
| Q2147-07 | 5 | 29 | 1.18 | 9.87 | 11.05 | 9.58 | 85.1 | |
| Q2149-01 | FILTER-CAKE | 30 | 1.15 | 10.37 | 11.52 | 7.32 | 59.5 | |

| Solid = $\frac{(C-A) \times 100}{(D-A)}$ |
|--|
| (B-A) |

| | | | WORKLIST(Hard | WORKLIST(Hardcopy Internal Chain) | | HEBSENCE | | |
|-----------------------------|---------------------|---------------|----------------|-----------------------------------|--|-----------------------------------|--------------|---------------------|
| WorkList Name : | %1-052825 | WorkList ID : | D: 189773 | Department : Wet- | Wet-Chemistry | Date | | 05-28-2025 08:19:19 |
| Sample | Customer Sample | Matrix | Test | Preservative | Customer | Raw Sample Storage Location | Collect Date | Method |
| Q2135-01 | 1977 | Solid | Percent Solids | Cool 4 des C | | | | |
| Q2136-01 | OR-646-COMP-52 | Solid | Parrant Solido | | ALCEUZ | L31 | 05/28/2025 | Chemtech -SO |
| Q2136-02 | OR-646-VOC-52 | Pilos | | Cool 4 deg C | PSEG03 | L41 | 05/27/2025 | Chemtech -SO |
| Q2136-03 | OR-646-154 | Pilos | | Cool 4 deg C | PSEG03 | L41 | 05/27/2025 | Chemtech -SO |
| Q2136-04 | OR-646-155 | | | Cool 4 deg C | PSEG03 | L41 | 05/27/2025 | Chemtech -SO |
| Q2137-01 | MOD-25-0149 | Diloc | Percent Solids | Cool 4 deg C | PSEG03 | L41 | 05/27/2025 | Chemtech -SO |
| Q2137-02 | MOD-25-0140 | | Percent Solids | Cool 4 deg C | PSEG03 | L31 | 05/28/2025 | Chemtech -SO |
| Q2138-01 | SMALL CONCRETE DAD | pilos | Percent Solids | Cool 4 deg C | PSEG03 | L31 | 05/28/2025 | Chemtech -SO |
| 02139-01 | | Solid | Percent Solids | Cool 4 deg C | PSEG03 | L41 | 05/28/2025 | Chemtech -SO |
| | BELL-23-U010 | Solid | Percent Solids | Cool 4 deg C | PSEG03 | L41 | 05/28/2025 | Chemtech -SO |
| UZ139-02 | BELL-25-0010 | Solid | Percent Solids | Cool 4 deg C | PSEG03 | L41 | | Co destando |
| Q2140-01 | KMH5090-1-1 | Solid | Percent Solids | Cool 4 deg C | PSEG03 | 144 | | |
| Q2140-02 | KMH5090-1-2 | Solid | Percent Solids | Cool 4 dea C | | | | Chemtech -SO |
| Q2141-01 | VNJ-215 | Solid | Percent Solids | | 2000 L | L41 | | Chemtech -SO |
| Q2142-01 | Y2309-0029-1-1 | Solid | Dercent Colido | | PSEG03 | L41 | 05/28/2025 | Chemtech -SO |
| Q2142-02 | Y2309-0029-1-2 | Solid | Percent Solids | Cool 4 deg C | PSEG03 | L41 | 05/28/2025 | Chemtech -SO |
| Q2143-01 | ELI-46-36-25-58-53 | Policy | | Cool 4 deg C | PSEG03 | L41 | 05/28/2025 | Chemtech -SO |
| Q2143-02 | ELI-57-43-35-26 | | | Cool 4 deg C | PSEG03 | L31 | 05/28/2025 | Chemtech -SO |
| 02144-01 | | DIIOS | Percent Solids | Cool 4 deg C | PSEG03 | L31 | 05/28/2025 | Chemtech -SO |
| C0144.00 | OILT -UEDRIO-COMP-A | Solid | Percent Solids | Cool 4 deg C | PSEG03 | L31 | 05/28/2025 (| Chemtech -SO |
| 20-144-02 | UILY-UEBRIS-COMP-B | Solid | Percent Solids | Cool 4 deg C | PSEG03 | L31 | 05/28/2025 | Chamtach CO |
| Q2146-01 | TP04-MHN-WC | Solid | Percent Solids | Cool 4 deg C | PSEG03 | L31 | 1 | |
| Q2146-02 | TP04-MHN-VOC | Solid | Percent Solids | Cool 4 deg C | PSEG03 | L31 | | Chemtech -SO |
| Date/Time | S | | | | Date/Time | STATISO | 171 | 112 |
| Raw Sample Relinquished by: | | ,] | Page 1 of 2 | jî 2 | Raw Sample Received by: Raw Sample Relinquished by: | ceived by: linquished by: | Sec | 2000 |
| | | | | | | | ß | 120 |

| | | - | WORKLIST(Hard | IST(Hardcopy Internal Chain) | L | hebser 4 | - | |
|-----------------|-----------------|---------------|----------------|------------------------------|---------------|-----------------------------------|---------------------|-------------------------|
| WorkList Name : | %1-052825 | WorkList ID : | : 189773 | Department : | Wet-Chemistry | y ∕ ∕ Date : | | 05-28-2025 08-10-10 |
| Sample | Customer Sample | Matrix | Test | Preservative | Customer | Raw Sample Storage Location | Collect Date Method | Method |
| Q2146-03 | TD01 MUN EDU | | | | | | | |
| | | Solid | Percent Solids | Cool 4 deg C | PSEG03 | 131 | 06/20/2026 | |
| Q2147-01 | WASTE | Solid | Percent Solids | Coni 4 den C | | | CZNZI0ZICN | VUIZOIZUZO CHEMTECH -SO |
| Q2147-02 | VOC | | | o fan t inno | SCIAU1 | L41 | 05/27/2025 | Chemtech -SO |
| | | DIOC | Percent Solids | Cool 4 deg C | SCIA01 | L41 | UE/27/202E | |
| Q2147-03 | ~ | Solid | Percent Solids | Cool 4 doc C | | | CZ02112100 | UNITION COMMECT -SO |
| Q2147-04 | 0 | | | Court and C | SCIA01 | L41 | 05/27/2025 | Chemtech -SO |
| | 1 | Solid | Percent Solids | Cool 4 deg C | SCIA01 | L41 | 05/27/2026 | DEPTIONSE Charles to |
| QZ147-05 | n | Solid | Percent Solids | Cool 4 doo C | | | 2707117100 | Criemtech -SO |
| Q2147-06 | 4 | Pilo O | | Cool 4 deg C | SCIA01 | L41 | 05/27/2025 | Chemtech -SO |
| 20 27 20 | | | rercent solids | Cool 4 deg C | SCIA01 | L41 | 05/27/2025 | 05/27/2025 Chemtoch 50 |
| MZ 141-01 | 5 | Solid F | Percent Solids | Cool 4 dea C | | | 0404114000 | |
| Q2149-01 | FILTER-CAKE | - Filoo | | D Rep + DOD | SCIAUT | L41 | 05/27/2025 | Chemtech -SO |
| | | | rercent Solids | Cool 4 deg C | ARAM01 | L31 | 05/28/2025 | 05/28/2025 Chamtach_20 |
| | | | | | | | | |

5979 Raw Sample Received by: 59 (9.09.) Date/Time 05/28/25 15130 Raw Sample Relinquished by:

Page 2 of 2

CC 820 Raw Sample Relinquished by: Raw Sample Received by:

Date/Time USH&USS 17415

Luc



<u>SHIPPING</u> DOCUMENTS

| A | liance | (908) 789-8900 · Fax (908) 789-8922 | | | | | | | c | ALLIANCE PROJECT NO. QUOTE NO. COC Number 2046260 | | | | | | | |
|--------------------------|---|-------------------------------------|--|-----------|------------------------|--------------|---------|---------|------------------------|---|------------|-------|-------|----------|--------|---|--|
| | CLIENT INFORMATION | | | CLIENT P | ROJECT II | IFORM/ | TION | | | | | | CLIE | NT BILLI | NG INF | ORMATION | |
| COMPANY: | Aramark Uniforms | PROJEC | CT NA | ME: | Mon | thi | y | | | BILL T | O: | | | | | PO#: | |
| ADDRESS: | 740 Frelinghuysen Ave | PROJEC | T NO.: | | LOC | | / | | | ADDR | ESS: | | | | | | |
| CITY New | WALK STATE: NJ ZIP: 67 114 | PROJEC | T MAN | AGER: | | | | | | CITY | | | | | STAT | ſE: | :ZIP: |
| ATTENTION: | Jarrod mills | e-mail: | | | | | | | | ATTEN | TION: | | | | PHO | NE: | |
| | 3-824-1101 FAX: | PHONE: | | | F | AX: : | | | | | | | | AN | ALYSIS | | |
| | DATA TURNAROUND INFORMATION | | DA | TA DELIVE | RABLE IN | FORM | ATION | | | -5 | 1.5 | | | / | 1.20 | | 17 OX |
| EDD: *TO BE APPRO | DAYS* ATA PACKAGE):DAYS*DAYS* VED BY CHEMTECH RDCOPY TURNAROUND TIME IS 10 BUSINESS | Level 2 Level 2 + Rav | 2 (Resul 3 (Resul v Data) ORMAT | | NJ Reduce | d 🗆 US | S EPA C | LP | 111454 1119 1119 | Lale PRES | SERVA | | Les ? | A CON | Here & | 26th | M GOUL |
| ALLIANCE SAMPLE ID | PROJECT SAMPLE IDENTIFICATION | SAMPLE MATRIX | SAMPI TYPE dwo | COLL | MPLE ECTION TIME | # OF BOTTLES | e | e- 2 | e | e 4 | <i>e</i> 5 | 0 | e | e | e 9 | and the second se | fy Preservatives D-NaOH E-ICE F-OTHER |
| 1. | Filter Cake | S | V | 1 | 1005 | Lj | V | V | V | F1 | V | V | 1L | PV | V | - | |
| 2. | | | | | | | | | | | | | | | | | |
| 3. | | | | | | | | | | | | | | | | | |
| 4. | | | | | | | | | | | | | | | | | |
| 5. | | | | | | | | | | | | | | | | | |
| 6. | | | | | | | | | | | | | | | | | |
| 7. | | | | | | | | | | | | | | | | | |
| 8. | | | | | | | | | | | | | | | | | |
| 9. | | | | | | | | | | | | | | | | | |
| 10. | | | | | | | | | | | | | | | | | |
| RELINQUISHED BY | Y SAMPLER: DATE/TIME: 2. Y SAMPLER: DATE/TIME: 2. Y SAMPLER: DATE/TIME: 33 RECEIVED BY: | A | BELO [01 5 -25 | C Conditi | ons of bottles | or cooler: | | ot: 🗆 C | OMPLIANT | - | COMPLIA | NT D(| | | _ | Shipmen | °C |
| 3. Copyright 2024 | 5.28.25 3. WHITE - ALLIANC | | RETURN | Page | | W - ALLIA | | | | SAMPLER | | | _ | | | | |

| WHITE - ALLIANCE COPY FOR RETURN TO CLIENT | YELLOW - ALLIANCE COPY | PINK · | - SAMPLER COI |
|--|------------------------|--------|---------------|
|--|------------------------|--------|---------------|



Laboratory Certification

| Certified By | License No. |
|----------------------|------------------|
| CAS EPA CLP Contract | 68HERH20D0011 |
| Connecticut | PH-0830 |
| DOD ELAP (ANAB) | L2219 |
| Maine | 2024021 |
| Maryland | 296 |
| New Hampshire | 255424 Rev 1 |
| New Jersey | 20012 |
| New York | 11376 |
| Pennsylvania | 68-00548 |
| Soil Permit | 525-24-234-08441 |
| Texas | T104704488 |