

DATA REPORTING QUALIFIERS- INORGANIC

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

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



LAB CHRONICLE

Q1424 OrderID:

American Wax Client: Contact: Steve Pollack

2/25/2025 12:03:00 PM OrderDate: Semi Annual 2025

Project:

Location: D11

| LabID | ClientID | Matrix | Test | Method | Sample Date | Prep Date | Anal Date | Received |
|----------|-----------------------|--------|--------------------|----------|-------------------|-----------|-------------------|----------|
| Q1424-01 | NON POLAR MATERIAL | WATER | | | 02/25/25 10:00 | | | 02/25/25 |
| | | | Non-Polar Material | 1664A | | | 02/27/25 10:25 | |
| Q1424-02 | NON POLAR MATERIAL | WATER | | | 02/25/25 10:30 | | | 02/25/25 |
| | | | Non-Polar Material | 1664A | | | 02/27/25 10:25 | |
| Q1424-03 | NON POLAR MATERIAL | WATER | | | 02/25/25 11:00 | | | 02/25/25 |
| | | | Non-Polar Material | 1664A | | | 02/27/25 10:25 | |
| Q1424-04 | NON POLAR MATERIAL | WATER | | | 02/25/25 11:30 | | | 02/25/25 |
| | | | Non-Polar Material | 1664A | | | 02/27/25 10:25 | |
| Q1424-05 | BOD | WATER | | | 02/25/25 11:30 | | | 02/25/25 |
| | | | BOD_7 | SM5210 B | | | 02/26/25 17:20 | |
| Q1424-06 | COD | Water | | | 02/25/25 11:30 | | | 02/25/25 |
| | | | COD | SM5220 D | | | 02/28/25 14:02 | |



SAMPLE DATA



Report of Analysis

Client: American Wax Date Collected: 02/25/25 10:00 Project: Date Received: Semi Annual 2025 02/25/25 Client Sample ID: NON POLAR MATERIAL SDG No.: Q1424 Lab Sample ID: Q1424-01 Matrix: WATER % Solid: 0

| Parameter | Conc. | Qua. | DF MDL | LOQ / CRQL | Units | Prep Date | Date Ana. | Ana Met. |
|--------------------|-------|------|--------|------------|-------|-----------|----------------|----------|
| Non-Polar Material | 1.00 | J | 1 0.40 | 5.00 | mg/L | | 02/27/25 10:25 | 1664A |

Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

D = Dilution

Q = indicates LCS control criteria did not meet requirements

H = Sample Analysis Out Of Hold Time

J = Estimated Value

B = Analyte Found in Associated Method Blank

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

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

OR = Over Range



Fax: 908 789 8922

Report of Analysis

Client: American Wax Date Collected: 02/25/25 10:30 Project: Date Received: Semi Annual 2025 02/25/25 Client Sample ID: NON POLAR MATERIAL SDG No.: Q1424 Lab Sample ID: Q1424-02 Matrix: WATER % Solid: 0

| Parameter | Conc. | Qua. | DF MDL | LOQ / CRQL | Units | Prep Date | Date Ana. | Ana Met. |
|--------------------|-------|------|--------|------------|-------|-----------|---------------|----------|
| Non-Polar Material | 0.90 | J | 1 0.40 | 5.00 | mg/L | | 02/27/25 10:2 | 5 1664A |

Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

D = Dilution

Q = indicates LCS control criteria did not meet requirements

H = Sample Analysis Out Of Hold Time

J = Estimated Value

B = Analyte Found in Associated Method Blank

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

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

OR = Over Range



Fax: 908 789 8922

Report of Analysis

Client: American Wax Date Collected: 02/25/25 11:00 Project: Date Received: Semi Annual 2025 02/25/25 Client Sample ID: NON POLAR MATERIAL SDG No.: Q1424 Lab Sample ID: Q1424-03 Matrix: WATER % Solid: 0

| Parameter | Conc. | Qua. | DF MDL | LOQ / CRQL | Units | Prep Date | Date Ana. | Ana Met. |
|--------------------|-------|------|--------|------------|-------|-----------|----------------|----------|
| Non-Polar Material | 1.20 | J | 1 0.40 | 5.00 | mg/L | | 02/27/25 10:25 | 1664A |

Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

D = Dilution

Q = indicates LCS control criteria did not meet requirements

H = Sample Analysis Out Of Hold Time

J = Estimated Value

B = Analyte Found in Associated Method Blank

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

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

OR = Over Range



Fax: 908 789 8922

Report of Analysis

Client: American Wax Date Collected: 02/25/25 11:30 Project: Date Received: Semi Annual 2025 02/25/25 Client Sample ID: NON POLAR MATERIAL SDG No.: Q1424 Lab Sample ID: Q1424-04 Matrix: WATER % Solid: 0

| Parameter | Conc. | Qua. | DF MDL | LOQ / CRQL | Units | Prep Date | Date Ana. | Ana Met. |
|--------------------|-------|------|--------|------------|-------|-----------|----------------|----------|
| Non-Polar Material | 1.10 | J | 1 0.40 | 5.00 | mg/L | | 02/27/25 10:25 | 1664A |

Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

D = Dilution

Q = indicates LCS control criteria did not meet requirements

H = Sample Analysis Out Of Hold Time

J = Estimated Value

B = Analyte Found in Associated Method Blank

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

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

OR = Over Range



Fax: 908 789 8922

Report of Analysis

Client: American Wax Date Collected: 02/25/25 11:30 Project: Semi Annual 2025 Date Received: 02/25/25 Client Sample ID: BOD SDG No.: Q1424 Q1424-05 Lab Sample ID: Matrix: WATER % Solid: 0

| Parameter | Conc. Qua. | DF MDL | LOQ / CRQL | Units | Prep Date | Date Ana. | Ana Met. |
|-----------|------------|--------|------------|-------|-----------|----------------|--------------|
| BOD 7 | 3470 | 1 0.17 | 2.00 | mg/L | | 02/26/25 17:20 | SM 5210 B-16 |

Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

D = Dilution

Q = indicates LCS control criteria did not meet requirements

H = Sample Analysis Out Of Hold Time

J = Estimated Value

B = Analyte Found in Associated Method Blank

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

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

OR = Over Range



Fax: 908 789 8922

Report of Analysis

Client: American Wax Date Collected: 02/25/25 11:30 Project: Semi Annual 2025 Date Received: 02/25/25 Client Sample ID: COD SDG No.: Q1424 Q1424-06 Lab Sample ID: Matrix: Water % Solid: 0

| Parameter | Conc. Qu | a. DF MDL | LOQ / CRQL | Units | Prep Date | Date Ana. | Ana Met. |
|-----------|----------|-----------|------------|-------|-----------|---------------|----------------|
| COD | 5930 D | 50 118 | 500 | mg/L | | 02/28/25 14:0 | 2 SM 5220 D-11 |

Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

D = Dilution

Q = indicates LCS control criteria did not meet requirements

H = Sample Analysis Out Of Hold Time

J = Estimated Value

B = Analyte Found in Associated Method Blank

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

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

OR = Over Range



QC RESULT SUMMARY





Initial and Continuing Calibration Verification

Client: American Wax SDG No.: Q1424

Project: Semi Annual 2025 RunNo.: LB134856

| Analyte | | Units | Result | True Value | % Recovery | Acceptance Window (%R) | Analysis Date |
|------------|------|-------|--------|------------|---------------|---------------------------|------------------|
| Sample ID: | ICV | mg/L | 49.329 | 50 | 99 | 95-105 | 01/22/2025 |
| Sample ID: | CCV1 | mg/L | 50.319 | 50 | 101 | 95-105 | 02/28/2025 |
| Sample ID: | CCV2 | mg/L | 50.319 | 50 | 101 | 95-105 | 02/28/2025 |
| Sample ID: | CCV3 | mg/L | 50.319 | 50 | 101 | 95-105 | 02/28/2025 |





Initial and Continuing Calibration Blank Summary

Client: American Wax SDG No.: Q1424

Project: Semi Annual 2025 RunNo.: LB134856

| Analyte | | Units | Result | Acceptance Limits | Conc Qual | MDL | RDL | Analysis Date |
|------------|------|-------|----------|----------------------|--------------|------|-----|------------------|
| Sample ID: | ICB | mg/L | < 5.0000 | 5.0000 | U | 2.35 | 10 | 01/22/2025 |
| Sample ID: | CCB1 | mg/L | < 5.0000 | 5.0000 | U | 2.35 | 10 | 02/28/2025 |
| Sample ID: | CCB2 | mg/L | < 5.0000 | 5.0000 | U | 2.35 | 10 | 02/28/2025 |
| Sample ID: | CCB3 | mg/L | < 5.0000 | 5.0000 | U | 2.35 | 10 | 02/28/2025 |





Preparation Blank Summary

Client: American Wax SDG No.: Q1424

Project: Semi Annual 2025

| Analyte | Units | Result | Acceptance Limits | Conc Qual | MDL | RDL | Analysis Date |
|------------|---------------|----------|----------------------|--------------|------|------|------------------|
| Sample ID: | LB134820BL | | | | | | |
| BOD_7 | mg/L | < 1.0000 | 1.0000 | U | 0.17 | 2 | 02/26/2025 |
| Sample ID: | LB134829BL | | | | | | |
| Non-Polar | Material mg/L | < 2.5000 | 2.5000 | U | 0.4 | 5.0 | 02/27/2025 |
| Sample ID: | LB134856BL | | | | | | |
| COD | mg/L | < 5.0000 | 5.0000 | U | 2.35 | 10.0 | 02/28/2025 |



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Matrix Spike Summary

Client: American Wax SDG No.: Q1424

Project: Semi Annual 2025 Sample ID: Q1439-01

Client ID: LRSA-MODMS Percent Solids for Spike Sample: 0

| | | Acceptance | Spiked | Conc. | Sample | Conc. | Spike | Dilution | % | | Analysis |
|---------|-------|------------|--------|-----------|--------|-----------|-------|----------|-----|------|------------|
| Analyte | Units | Limit %R | Result | Qualifier | Result | Qualifier | Added | Factor | Rec | Qual | Date |
| COD | mg/L | 75-125 | 51.3 | | 3.79 | J | 50.0 | 1 | 95 | | 02/28/2025 |



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Matrix Spike Summary

Client: American Wax SDG No.: Q1424

Project: Semi Annual 2025 Sample ID: Q1439-01

Client ID: LRSA-MODMSD Percent Solids for Spike Sample: 0

| | | Acceptance | Spiked | Conc. | Sample | Conc. | Spike | Dilution | % | | Analysis |
|---------|-------|------------|--------|-----------|--------|-----------|-------|----------|-----|------|------------|
| Analyte | Units | Limit %R | Result | Qualifier | Result | Qualifier | Added | Factor | Rec | Qual | Date |
| COD | mg/L | 75-125 | 52.3 | | 3.79 | J | 50.0 | 1 | 97 | | 02/28/2025 |



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Duplicate Sample Summary

Client: American Wax SDG No.: Q1424

Project: Semi Annual 2025 Sample ID: Q1424-05

Client ID: BODDUP Percent Solids for Spike Sample: 0

| Analyte | Units | Acceptance Limit | Sample Result | Conc. Qualifier | Duplicate Result | Conc. Qualifier | Dilution Factor | RPD/ AD | Qual | Analysis Date | |
|---------|-------|---------------------|------------------|--------------------|---------------------|--------------------|--------------------|------------|------|------------------|---|
| BOD 7 | mg/L | +/-20 | 3470 | | 3370 | • | 1 | 2.81 | | 02/26/2025 | _ |



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Duplicate Sample Summary

Client: American Wax SDG No.: Q1424

Project: Semi Annual 2025 Sample ID: Q1439-01

Client ID: LRSA-MODDUP Percent Solids for Spike Sample: 0

| Analyte | Units | Acceptance Limit | Sample Result | Conc. Qualifier | Duplicate Result | Conc. Qualifier | Dilution Factor | RPD/ AD | Qual | Analysis Date |
|---------|-------|---------------------|------------------|--------------------|---------------------|--------------------|--------------------|------------|------|------------------|
| COD | mg/L | +/-20 | 3.79 | J | 3.79 | J | 1 | 0 | | 02/28/2025 |



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Duplicate Sample Summary

Client: American Wax SDG No.: Q1424

Project: Semi Annual 2025 **Sample ID:** Q1439-01

Client ID: LRSA-MODMSD Percent Solids for Spike Sample: 0

| Analyte | Units | Acceptance Limit | Sample Result | Conc. Qualifier | Duplicate Result | Conc. Qualifier | Dilution Factor | RPD/ AD | Qual | Analysis Date | |
|---------|-------|---------------------|------------------|--------------------|---------------------|--------------------|--------------------|------------|------|------------------|---|
| COD | mg/L | +/-20 | 51.3 | | 52.3 | | 1 | 1.93 | | 02/28/2025 | _ |





Laboratory Control Sample Summary

Client: American Wax SDG No.: Q1424

Project: Semi Annual 2025 Run No.: LB134820

| Analyte | | Units | True Value | Result | Conc. Qualifier | % Recovery | Dilution Factor | Acceptance Limit %R | Analysis Date |
|-----------|------------|-------|---------------|--------|--------------------|---------------|--------------------|------------------------|------------------|
| Sample ID | LB134820BS | | | | | | | | _ |
| BOD_7 | | mg/L | 198 | 204 | | 103 | 1 | 84.6-115.4 | 02/26/2025 |





Laboratory Control Sample Summary

Client: American Wax SDG No.: Q1424

Project: Semi Annual 2025 Run No.: LB134829

| Analyte | Units | True Value | Result | Conc. Qualifier | % Recovery | Dilution Factor | Acceptance Limit %R | Analysis Date |
|----------------------|-------|---------------|--------|--------------------|---------------|--------------------|------------------------|------------------|
| Sample ID LB134829BS | | | | | | | | |
| Non-Polar Material | mg/L | 20.0 | 16.7 | | 84 | 1 | 78-114 | 02/27/2025 |





Laboratory Control Sample Summary

Client: American Wax SDG No.: Q1424

Project: Semi Annual 2025 Run No.: LB134856

| Analyte | | Units | True Value | Result | Conc. Qualifier | % Recovery | Dilution Factor | Acceptance Limit %R | Analysis Date |
|-----------|------------|-------|---------------|--------|--------------------|---------------|--------------------|------------------------|------------------|
| Sample ID | LB134856BS | | | | | | | | |
| COD | | mg/L | 50 | 49.3 | | 99 | 1 | 90-110 | 02/28/2025 |



RAW DATA

Alliance

QC BATCH ID: LB134820

BOD Water: WP112062

Starch: W3149

POLYSEED: WP112064

GGA: WP112063

Sulfuric acid, 1N: WP110386

Chlorine Strips: W3155

pH Strips: W3140

BOD 7 LOG

ANALYST: rubir nst ld:DO METER

Reviewed By:Iwona On:3/6/2025 11:42:59

SUPERVISOR: Iwona

Analysis Date: 02/26/2025

MANGANOUS SULFATE SOLUTION: W3103

Alkaline Iodide Azide: W3109

Sodium Thiosulfate, 0.025N: W3105

NaOH, 1N: WP111323

IncubatorID: INCUBATOR #3

GuageID: 0511062

Zero DO: WP111875

| Lab SampleID | Client ID | Bottle No. | VOL. | Initial Reading(ML) | Final Reading(ML) | Difference | Average |
|--------------|-----------|---------------|------|------------------------|----------------------|------------|---------|
| WINKLER 1 | WINKLER 1 | 1 | 300 | 0.0 | 9.5 | 9.5 | 9.5 |
| WINKLER 2 | WINKLER 2 | 2 | 300 | 9.6 | 19.1 | 9.5 | 9.5 |

Barometric Pressure1: 760 mmHg DO Meter BOD fluid reading for winkler comparison: 9.53

After Incubation

Meter Calibration2: 9.28 Zero DO Reading2: 0.14 mg/L (<=0.2 Criteria)

Barometric Pressure2: 755 mmHg



QC BATCH ID: LB134820

INCUBATOR TEMP IN(C): 20.0

TIME IN: 17:20

DATE IN: 02/26/2025

INCUBATOR TEMP OUT (C): 20.1

TIME OUT: 13:30

DATE OUT: 03/05/2025

| Lab SampleID | Bottle No. | Check CL | Initial PH | Final PH | Temp °C | Sam Vol. (mL) | D.O.1 Initial | D.O.2 Final | Depletion | BOD Result (mg/L) | Avg Result (mg/L) | Comment |
|--------------|---------------|-------------|---------------|-------------|------------|---------------------|------------------|----------------|-----------|-------------------------|-------------------------|---------|
| LB134820BL | 1 | No | 6.59 | N/A | 20.80 | 300 | 9.53 | 9.51 | 0.02 | 0.02 | 0.02 | |
| POLYSEED | 1 | | | | | 10 | 9.51 | 7.02 | 2.49 | 0.5 | 0.53 | |
| POLYSEED | 2 | | | | | 15 | 9.46 | 5.63 | 3.83 | 0.51 | | |
| POLYSEED | 3 | | | | | 20 | 9.42 | 3.67 | 5.75 | 0.57 | | |
| GGA | 1 | | | | | 6 | 9.41 | 5.01 | 4.4 | 193.5 | 203.5 | |
| GGA | 2 | | | | | 6 | 9.41 | 4.57 | 4.84 | 215.5 | | |
| GGA | 3 | | | | | 6 | 9.43 | 4.87 | 4.56 | 201.5 | | |
| Q1424-05 | 1 | No | 7.00 | N/A | 20.20 | 0.1 | 9.50 | 7.72 | - | 0 | 3468 | |
| Q1424-05 | 2 | | | | | 0.5 | 9.40 | 3.09 | 6.31 | 3468 | | |
| Q1424-05 | 3 | | | | | 1 | 9.39 | 0.19 | - | 0 | | |
| Q1424-05 | 4 | | | | | 5 | 9.15 | 0.10 | - | 0 | | |
| Q1424-05DUP | 1 | No | 7.00 | N/A | 20.20 | 0.1 | 9.50 | 8.59 | - | 0 | 3372 | |
| Q1424-05DUP | 2 | | | | | 0.5 | 9.42 | 3.27 | 6.15 | 3372 | | |
| Q1424-05DUP | 3 | | | | | 1 | 9.39 | 0.14 | - | 0 | | |
| Q1424-05DUP | 4 | | | | | 5 | 9.13 | 0.09 | - | 0 | | |
| Q1432-05 | 1 | No | 6.87 | N/A | 20.60 | 0.1 | 9.31 | 8.29 | - | 0 | 1809 | |
| Q1432-05 | 2 | | | | | 0.5 | 9.28 | 5.58 | 3.7 | 1902 | | |
| Q1432-05 | 3 | | | | | 1 | 9.14 | 2.89 | 6.25 | 1716 | | |
| Q1432-05 | 4 | | | | | 5 | 8.96 | 0.62 | - | 0 | | |

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



Extraction and Analytical Summary Report

Analysis Method: 1664A

Test: Non-Polar Material

Run Number: LB134829

Analysis Date: 02/27/2025

BalanceID: WC SC-6

OvenID: EXT OVEN-3

ANALYST: jignesh

REVIEWED BY: Iwona

Extraction Date: 02/27/2025

Extration IN Time: 08:25

Extration OUT Time: 09:40

Thermometer ID: $\overline{\text{EXT OVEN#3}}$

| Dish # | Lab ID | Client ID | Matrix | рН | Sample Vol (ml) | Final Volume (ml) | Empty Dish Weight (q) | Final Empty Dish Weight(g) | Silica Gel Weight(g) | Weight After Drying(g) | Final Weight After Drying(g) | Change Weight (g) | Result in ppm |
|-----------|------------|--------------------|--------|-----|--------------------|-------------------------|--------------------------------|----------------------------------|----------------------------|------------------------------|---------------------------------------|-------------------------|------------------|
| 1 | LB134829BL | LB134829BL | WATER | 1.3 | 1000 | 100 | 2.5631 | 2.5631 | 3.01 | 2.5632 | 2.5632 | 0.0001 | 0.1 |
| 2 | LB134829BS | LB134829BS | WATER | 1.3 | 1000 | 100 | 2.9637 | 2.9637 | 3.02 | 2.9804 | 2.9804 | 0.0167 | 16.7 |
| 3 | Q1424-01 | NON POLAR MATERIAL | WATER | 1.6 | 1000 | 100 | 3.0774 | 3.0774 | 3.03 | 3.0784 | 3.0784 | 0.0010 | 1 |
| 4 | Q1424-02 | NON POLAR MATERIAL | WATER | 1.6 | 1000 | 100 | 3.1482 | 3.1482 | 3.04 | 3.1491 | 3.1491 | 0.0009 | 0.9 |
| 5 | Q1424-03 | NON POLAR MATERIAL | WATER | 1.6 | 1000 | 100 | 3.0420 | 3.0420 | 303.00 | 3.0432 | 3.0432 | 0.0012 | 1.2 |
| 6 | Q1424-04 | NON POLAR MATERIAL | WATER | 1.6 | 1000 | 100 | 3.0155 | 3.0155 | 3.02 | 3.0166 | 3.0166 | 0.0011 | 1.1 |
| 7 | Q1429-01 | OUTFALL-DSN-001 | WATER | 1.3 | 1000 | 100 | 3.0501 | 3.0501 | 3.04 | 3.0504 | 3.0504 | 0.0003 | 0.3 |
| 8 | Q1429-02 | OUTFALL-DSN-002 | WATER | 1.3 | 1000 | 100 | 3.0324 | 3.0324 | 3.05 | 3.0332 | 3.0332 | 0.0008 | 0.8 |
| 9 | Q1432-01 | NON POLAR MATERIAL | WATER | 1.6 | 1000 | 100 | 3.1603 | 3.1603 | 3.02 | 3.1606 | 3.1606 | 0.0003 | 0.3 |
| 10 | Q1432-02 | NON POLAR MATERIAL | WATER | 1.6 | 1000 | 100 | 2.9903 | 2.9903 | 3.04 | 2.9907 | 2.9907 | 0.0004 | 0.4 |
| 11 | Q1432-03 | NON POLAR MATERIAL | WATER | 1.6 | 1000 | 100 | 3.0484 | 3.0484 | 3.03 | 3.0488 | 3.0488 | 0.0004 | 0.4 |
| 12 | Q1432-04 | NON POLAR MATERIAL | WATER | 1.6 | 1000 | 100 | 3.1201 | 3.1201 | 3.01 | 3.1207 | 3.1207 | 0.0006 | 0.6 |



QC Batch# LB134829

Test: Non-Polar Material

Analysis Date: 02/27/2025

Chemicals Used:

| Chemical Name | Chemical Lot # |
|----------------|----------------|
| HEXANE | W3177 |
| pH Paper 0-14 | M6069 |
| Sodium Sulfate | EP2590 |
| 1:1 HCL | WP110826 |
| Silica Gel | w3079 |
| Sand | NA |

Standards Used:

| Standard Name | Amount Used | Standard Lot # |
|---------------|-------------|----------------|
| LCSW | 5.00 ML | WP100827 |
| LCSWD | 5.00 ML | WP100828 |
| MS/MSD | NA | NA |

BALANCE CALIBRATION / OVEN Dessicator Data

Analytical Balance ID # : WC SC-6

Before Analysis

0.0020 gram Balance: 0.0018 (0.0018-0.0022) In OVEN TEMP1 : 70 °C Dessicator Time In1 : 11:01

1.0000 gram Balance: 1.0003 (0.9950-1.0050) In Time1: 10:25

Bal Check Time: 08:30 Out OVEN TEMP1: 70 °C Dessicator Time Out1: 11:35

Out Time1: 11:00

After Analysis

0.0020 gram Balance: 0.0019 (0.0018-0.0022) In OVEN TEMP2 : 71 °C Dessicator Time In2 : 13:01

1.0000 gram Balance: 1.0005 (0.9950-1.0050) In Time2: 12:10

Bal Check Time: 13:45 Out OVEN TEMP2: 71 °C Dessicator Time Out2: 13:40

Out Time2: 13:00

On:2/27/2025 4:56:2 PM Inst Id :WC SC-3 B :LB134829

WORKLIST(Hardcopy Internal Chain)

WorkList ID: 187914

non poplar p1424

WorkList Name:

prepel or

| | non popiar p 1424 | WorkList ID: | ID: 187914 | Department: Wet-C | Wet-Chemistry | Da | Date: 02-27-20 | 02-27-2025 08:13:33 |
|--------------|--|--------------|---------------------------|---|---------------|-----------------------------------|--|---------------------|
| Sample | Customer Sample | Matrix | Test | Preservative | Customer | Raw Sample Storage Location | | Method |
| Q1424-01 | NON POLAR MATERIAL | Water | Non-Polar Material | OF THE ST POSCH CASO | | | | |
| O1424-02 | I SIGNED AS I SO NON | | | College Section 12 | AMERUS | D11 | 02/25/2025 1664A | 1664A |
| | NOW FOLAR MAI ERIAL | Water | Non-Polar Material | Conc H2SO4 to pH < 2 | AMER08 | 011 | 02/25/2025 | 10040 |
| Q1424-03 | NON POLAR MATERIAL | Water | Non-Polar Material | Conc H2SO4 to pH < 2 | AMEDOO | | 020202020 | A+001 |
| Q1424-04 | INDU POLICE IN TAIL OF THE PROPERTY OF THE PRO | MARKET | | | AMENDO | | UZ/Z5/2025 1664A | 1664A |
| | | water | Non-Polar Material | Conc H2SO4 to pH < 2 | AMER08 | D11 | 02/25/2025 166/A | 16644 |
| Q1429-01 CX | OUTFALL-DSN-001 | Water | Non-Polar Material | Conc H2SO4 to pH < 2 | TDIESS | | 202020 | 4 |
| C1429-02 (54 | A OUTEAL DENIGO | | | 2 1 10 01 10 10 10 10 10 10 10 10 10 10 1 | INISUZ | LLO | 02/25/2025 | 1664A |
| | -1 | Water | Non-Polar Material | Conc H2SO4 to pH < 2 | TRIS02 | D11 | 02/25/2025 1664A | 16644 |
| Q1432-01 | NON POLAR MATERIAL | Water | Non-Polar Material | Conc H2SO4 to nH < 2 | AMEDOS | : | OFICE OF STATE OF STA | 7400 |
| Q1432-02 | NON POLAR MATERIAL | Wafer | Non-Dolar Material | | SOMETIMOS | | UZ/Z6/2025 1664A | 1664A |
| 04490 00 | | | Marchal | Conc HZSO4 to pH < 2 | AMER08 | H11 | 02/26/2025 1664A | 1664A |
| CU-7C+15 | NON POLAR MATERIAL | Water | Non-Polar Material | Conc H2SO4 to pH < 2 | AMER08 | H11 | 00/26/2002 | 4 7 0 0 0 |
| Q1432-04 | NON POLAR MATERIAL | Water | Non-Polar Material | Or III of Modern | | | 0212012020 | 1004A |
| | | | Disposition of the second | COIIC 112304 (0 pH < 2 | AMER08 | H11 | 02/26/2025 1664A | 1664A |
| | | | | | | | | |

Date/Time 021 141115

Raw Sample Received by:

Raw Sample Relinquished by:

Page 1 of 1

Date/Time O2/14/11/5 US 120

Raw Sample Received by: - 1 Co.)

Raw Sample Relinquished by:



Analytical Summary Report

Analysis Method: SM5220 D ANALYST: Niha

Parameter: COD SUPERVISOR REVIEW BY: Iwona

Run Number: LB134856

| Reagent/Standard | Lot/Log # |
|---|-----------|
| COD ICV-LCS std, 50ppm | WP111522 |
| COD calibration std. 100 ppm | WP111519 |
| COD calibration std. 10 ppm | WP111517 |
| COD calibration std. 150 ppm | WP111520 |
| COD calibration std. 50 ppm | WP111518 |
| COD calibration std. 0 ppm | WP111516 |
| COD Digestion Vials Low Level 0-150Mg/L | W3126 |
| COD ICV-LCS std, 50ppm | WP112005 |
| COD CCV std, 50ppm | WP112004 |

| Temp In(C): 148 | Date In: 02/28/2025 | Time In: 09:30 |
|-------------------------|----------------------|-----------------|
| Temp Out(C): 150 | Date Out: 02/28/2025 | Time Out: 11:30 |

Intercept: 0.1675 Slope: 1.0102 Regression: 1

| Seq | Lab ID | TrueValue (mg/l) | DF | MATRIX | Reading | Result (mg/l) | %D | Anal Date | Anal Time |
|-----|--------|------------------|----|--------|---------|---------------|------|------------|-----------|
| . 1 | CAL1 | 0 | 1 | Water | 0.000 | -0.166 | | 01/22/2025 | 13:30 |
| . 2 | CAL2 | 10 | 1 | Water | 11.000 | 10.723 | 7.2 | 01/22/2025 | 13:30 |
| . 3 | CAL3 | 50 | 1 | Water | 50.000 | 49.329 | -1.3 | 01/22/2025 | 13:31 |
| . 4 | CAL4 | 100 | 1 | Water | 101.000 | 99.814 | -0.2 | 01/22/2025 | 13:31 |
| . 5 | CAL5 | 150 | 1 | Water | 152.000 | 150.299 | 0.2 | 01/22/2025 | 13:32 |



Analytical Summary Report

Analysis Method: SM5220 D ANALYST: Niha

Parameter: COD SUPERVISOR REVIEW BY: Iwona

Run Number: LB134856

| | | True | Initial | 1 | 1 | I | | | ı | |
|-----|-------------|--------------|------------|-------------------|----|--------|---------|---------|------------|----------|
| Seq | Lab ID | Value (mg/l) | Weight (g) | Final Vol (ml) | DF | MATRIX | Reading | Result | AnalDate | AnalTime |
| 1 | ICV | 50 | NA | NA | 1 | Water | 50.000 | 49.329 | 01/22/2025 | 13:32 |
| 2 | ICB | | NA | NA | 1 | Water | 0.000 | -0.166 | 01/22/2025 | 13:33 |
| 3 | CCV1 | 50 | NA | NA | 1 | Water | 51.000 | 50.319 | 02/28/2025 | 14:00 |
| 4 | CCB1 | | NA | NA | 1 | Water | 0.000 | -0.166 | 02/28/2025 | 14:00 |
| 5 | LB134856BL | | NA | NA | 1 | Water | 0.000 | -0.166 | 02/28/2025 | 14:01 |
| 6 | LB134856BS | 50 | NA | NA | 1 | Water | 50.000 | 49.329 | 02/28/2025 | 14:01 |
| 7 | Q1424-06 | | NA | NA | 50 | Water | 120.000 | 118.623 | 02/28/2025 | 14:02 |
| 8 | Q1429-01 | | NA | NA | 1 | Water | 36.000 | 35.471 | 02/28/2025 | 14:02 |
| 9 | Q1429-02 | | NA | NA | 20 | Water | 19.000 | 18.642 | 02/28/2025 | 14:03 |
| 10 | Q1432-06 | | NA | NA | 50 | Water | 91.000 | 89.915 | 02/28/2025 | 14:03 |
| 11 | Q1435-01 | | NA | NA | 1 | Water | 3.000 | 2.804 | 02/28/2025 | 14:04 |
| 12 | Q1439-01 | | NA | NA | 1 | Water | 4.000 | 3.794 | 02/28/2025 | 14:04 |
| 13 | Q1439-01DUP | | NA | NA | 1 | Water | 4.000 | 3.794 | 02/28/2025 | 14:05 |
| 14 | Q1439-01MS | 50 | NA | NA | 1 | Water | 52.000 | 51.309 | 02/28/2025 | 14:05 |
| 15 | CCV2 | 50 | NA | NA | 1 | Water | 51.000 | 50.319 | 02/28/2025 | 14:06 |
| 16 | CCB2 | | NA | NA | 1 | Water | 0.000 | -0.166 | 02/28/2025 | 14:06 |
| 17 | Q1439-01MSD | 50 | NA | NA | 1 | Water | 53.000 | 52.299 | 02/28/2025 | 14:07 |
| 18 | CCV3 | 50 | NA | NA | 1 | Water | 51.000 | 50.319 | 02/28/2025 | 14:07 |
| 19 | CCB3 | | NA | NA | 1 | Water | 0.000 | -0.166 | 02/28/2025 | 14:08 |

WORKLIST(Hardcopy Internal Chain)

WorkList Name : COD-02282025

WorkList ID: 187971

Department: Wet-Chemistry

Date: 02-28-2025 08:43:07

| Conc H2SO4 to pH < 2 PSEG04 |
|--|
| PSEG03 |
| |
| Conc H2SO4 to pH < 2 AMER08 |
| IRIS02 |
| 1 |
| Conc HZSO4 to pH < 2 TRIS02 |
| |
| Conc H2SO4 to pH < 2 AMEROS |
| The state of the s |
| |
| Customer |
| |

Date/Time 0.2 · 28 · 20
Raw Sample Received by:
Raw Sample Relinquished by: 2025, 025, 09:00 NF(wc)

Page 1 of 1

Raw Sample Received by: 100 (2000)

Raw Sample Relinquished by: NF(1) 12:00

NF(WC)



Instrument ID: DO METER

| Review By | rub | ina | Review On | 3/6/2025 11:41:53 AM |
|---------------|-----|--------------------|---------------------------------|----------------------|
| Supervise By | lwo | ona | Supervise On | 3/6/2025 11:42:59 AM |
| SubDirectory | LB | 134820 | Test | BOD_7 |
| 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 | | WP112062,W3149,WP1 | 110386,W3103,W3109,W3105,WP1120 | 64,WP112063,WP111323 |

| Sr# | SampleId | ClientID | QcType | Date | Comment | Operator | Status |
|-----|--------------|--------------|--------|----------------|---------|----------|--------|
| 1 | LB134820BL | LB134820BL | МВ | 02/26/25 17:20 | | rubina | ок |
| 2 | LB134820BS | LB134820BS | LCS | 02/26/25 17:20 | | rubina | ОК |
| 3 | LB134820BSD1 | LB134820BSD1 | LCS | 02/26/25 17:20 | | rubina | ОК |
| 4 | LB134820BSD2 | LB134820BSD2 | LCS | 02/26/25 17:20 | | rubina | ОК |
| 5 | Q1424-05 | BOD | SAM | 02/26/25 17:20 | | rubina | ок |
| 6 | Q1424-05DUP | BODDUP | DUP | 02/26/25 17:20 | | rubina | ОК |
| 7 | Q1432-05 | BOD | SAM | 02/26/25 17:20 | | rubina | ок |



Instrument ID: WC SC-3

| Review By | jign | iesh | Review On | 2/27/2025 3:04:45 PM |
|---------------|------|---------------------|-------------------------------|----------------------|
| Supervise By | lwo | ona | Supervise On | 2/27/2025 4:56:21 PM |
| SubDirectory | LB | 134829 | Test | Non-Polar Material |
| 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 | | W3177,M6069,EP2590, | WP110826,W3079,NA,WP100827,WP | 100828,NA |

| Sr# | SampleId | ClientID | QcType | Date | Comment | Operator | Status |
|-----|------------|-----------------|--------|----------------|---------|----------|--------|
| 1 | LB134829BL | LB134829BL | MB | 02/27/25 10:25 | | jignesh | ОК |
| 2 | LB134829BS | LB134829BS | LCS | 02/27/25 10:25 | | jignesh | ОК |
| 3 | Q1424-01 | NON POLAR MATER | SAM | 02/27/25 10:25 | | jignesh | ОК |
| 4 | Q1424-02 | NON POLAR MATER | SAM | 02/27/25 10:25 | | jignesh | ОК |
| 5 | Q1424-03 | NON POLAR MATER | SAM | 02/27/25 10:25 | | jignesh | ОК |
| 6 | Q1424-04 | NON POLAR MATER | SAM | 02/27/25 10:25 | | jignesh | ОК |
| 7 | Q1429-01 | OUTFALL-DSN-001 | SAM | 02/27/25 10:25 | | jignesh | ОК |
| 8 | Q1429-02 | OUTFALL-DSN-002 | SAM | 02/27/25 10:25 | | jignesh | ОК |
| 9 | Q1432-01 | NON POLAR MATER | SAM | 02/27/25 10:25 | | jignesh | ОК |
| 10 | Q1432-02 | NON POLAR MATER | SAM | 02/27/25 10:25 | | jignesh | ОК |
| 11 | Q1432-03 | NON POLAR MATER | SAM | 02/27/25 10:25 | | jignesh | ОК |
| 12 | Q1432-04 | NON POLAR MATER | SAM | 02/27/25 10:25 | | jignesh | ОК |



Instrument ID: SPECTROPHOTOMETER-2

| Review By | Nih | ia | Review On | 2/28/2025 2:27:42 PM |
|-------------------|-------------------|---------------------|---------------------------------|------------------------------|
| Supervise By | lwc | ona | Supervise On | 2/28/2025 2:31:32 PM |
| SubDirectory | LB | 134856 | Test | COD |
| STD. NAME | | STD REF.# | | |
| ICAL Standard | ICAL Standard N/A | | | |
| ICV Standard | tandard N/A | | | |
| CCV Standard | V Standard N/A | | | |
| ICSA Standard N/A | | | | |
| CRI Standard | | N/A | | |
| LCS Standard | | N/A | | |
| Chk Standard | | WP111522,WP111519,V | WP111517,WP111520,WP111518,WP11 | 1516,W3126,WP112005,WP112004 |

| Sr# | Sampleld | ClientID | QcType | Date | Comment | Operator | Status |
|-----|-------------|-----------------|--------|----------------|---------|----------|--------|
| 1 | CAL1 | CAL1 | CAL | 01/22/25 13:30 | | Niha | ОК |
| 2 | CAL2 | CAL2 | CAL | 01/22/25 13:30 | | Niha | ОК |
| 3 | CAL3 | CAL3 | CAL | 01/22/25 13:31 | | Niha | ок |
| 4 | CAL4 | CAL4 | CAL | 01/22/25 13:31 | | Niha | ок |
| 5 | CAL5 | CAL5 | CAL | 01/22/25 13:32 | | Niha | ок |
| 6 | ICV | ICV | ICV | 01/22/25 13:32 | | Niha | ок |
| 7 | ICB | ICB | ICB | 01/22/25 13:33 | | Niha | ок |
| 8 | CCV1 | CCV1 | CCV | 02/28/25 14:00 | | Niha | ок |
| 9 | CCB1 | CCB1 | ССВ | 02/28/25 14:00 | | Niha | ок |
| 10 | LB134856BL | LB134856BL | МВ | 02/28/25 14:01 | | Niha | ок |
| 11 | LB134856BS | LB134856BS | LCS | 02/28/25 14:01 | | Niha | ок |
| 12 | Q1424-06 | COD | SAM | 02/28/25 14:02 | | Niha | ок |
| 13 | Q1429-01 | OUTFALL-DSN-001 | SAM | 02/28/25 14:02 | | Niha | ок |
| 14 | Q1429-02 | OUTFALL-DSN-002 | SAM | 02/28/25 14:03 | | Niha | ок |
| 15 | Q1432-06 | COD | SAM | 02/28/25 14:03 | | Niha | ок |
| 16 | Q1435-01 | 286107 | SAM | 02/28/25 14:04 | | Niha | ок |
| 17 | Q1439-01 | LRSA-MOD | SAM | 02/28/25 14:04 | | Niha | ок |
| 18 | Q1439-01DUP | LRSA-MODDUP | DUP | 02/28/25 14:05 | | Niha | ОК |



Instrument ID: SPECTROPHOTOMETER-2

| Review By | Niha | | Review On | 2/28/2025 2:27:42 PM | | | | |
|---------------------|----------|---|--------------|----------------------|--|--|--|--|
| Supervise By | lwona | | Supervise On | 2/28/2025 2:31:32 PM | | | | |
| SubDirectory | LB134856 | | Test | COD | | | | |
| STD. NAME STD REF.# | | | | | | | | |
| ICAL Standard | ard N/A | | | | | | | |
| ICV Standard | | N/A | | | | | | |
| CCV Standard | | N/A | | | | | | |
| ICSA Standard | | N/A | | | | | | |
| CRI Standard | | N/A | | | | | | |
| LCS Standard | N/A | | | | | | | |
| Chk Standard | | WP111522,WP111519,WP111517,WP111520,WP111518,WP111516,W3126,WP112005,WP112004 | | | | | | |

| 19 | Q1439-01MS | LRSA-MODMS | MS | 02/28/25 14:05 | 0.5ml WP112002 + 9.5ml Sample | Niha | OK |
|----|-------------|-------------|-----|----------------|----------------------------------|------|----|
| 20 | CCV2 | CCV2 | ccv | 02/28/25 14:06 | | Niha | ок |
| 21 | CCB2 | CCB2 | ССВ | 02/28/25 14:06 | | Niha | ОК |
| 22 | Q1439-01MSD | LRSA-MODMSD | MSD | 02/28/25 14:07 | 0.5ml WP112002 + 9.5ml Sample | Niha | OK |
| 23 | CCV3 | CCV3 | CCV | 02/28/25 14:07 | | Niha | ок |
| 24 | CCB3 | CCB3 | ССВ | 02/28/25 14:08 | | Niha | ОК |



8900, Fax: 908 789 8922

Prep Standard - Chemical Standard Summary

| Order | ID: | Q1424 |
|-------|-----|-------|
| | | |

Test: BOD_7,COD,Non-Polar Material

Prepbatch ID:

Sequence ID/Qc Batch ID: LB134820,LB134829,LB134856,

| Sta | | ١. | | _ | |
|-----|----|----|----|-------|---|
| SIA | ma | ы | ГΟ | u | - |

EP2590,WP100827,WP100828,WP110386,WP110826,WP111323,WP111514,WP111515,WP111516,WP111517,WP111518,WP111519,WP111520,WP111522,WP112002,WP112003,WP112004,WP112005,WP112062,WP112063,WP112064,WP99896.

Chemical ID:

E3551, M5673, M6069, M6121, W2606, W2653, W2654, W2783, W2784, W2845, W2898, W2979, W3059, W3079, W3103, W3105, W3109, W3112, W3113, W3126, W3144, W3149, W3169, W3177,



Extractions STANDARD PREPARATION LOG

| Recipe ID | NAME. | NO. | Prep Date | Expiration Date | Prepared By | <u>ScaleID</u> | <u>PipetteID</u> | Supervised By Riteshkumar Patel | |
|--------------|----------------------|--------|------------|--------------------|----------------|----------------|------------------|---------------------------------|--|
| 3923 | Baked Sodium Sulfate | EP2590 | 02/26/2025 | 07/01/2025 | RUPESHKUMA | Extraction_SC | None | | |
| | | | | | R SHAH | ALE_2 | | 02/26/2025 | |
| | (EX-5U-2) | | | | | | | | |

| FROM 4000.0000gram of | E3551 = Final Quantity: 4000.000 | gram |
|------------------------------|----------------------------------|------|
|------------------------------|----------------------------------|------|

| Recipe ID | NAME | <u>NO.</u> | Prep Date | Expiration Date | Prepared By | <u>ScaleID</u> | <u>PipetteID</u> | Supervised By Iwona Zarych |
|--------------|-----------------------------------|------------|------------|--------------------|----------------|-------------------------|------------------|----------------------------|
| 114 | hexavalent chromium color reagent | WP100827 | 02/02/2023 | 02/09/2023 | Rubina Mughal | WETCHEM_S CALE_5 (WC | None | 02/02/2023 |

FROM 0.25000gram of W2979 + 50.00000ml of W2783 = Final Quantity: 50.000 ml



Alliance TECHNICAL GROUP

Fax: 908 789 8922

Wet Chemistry STANDARD PREPARATION LOG

| Recipe ID | NAME | <u>NO.</u> | Prep Date | Expiration Date | Prepared By | <u>ScaleID</u> | <u>PipetteID</u> | Supervised By Sohil Jodhani |
|--------------|---|------------|--------------|--------------------|----------------|----------------|-----------------------|-----------------------------|
| 3456 | Cyanide Intermediate Working Std, 5PPM | WP100828 | 02/02/2023 | 02/03/2023 | lwona Zarych | None | WETCHEM_F IPETTE_3 | |
| FROM | 0.25000ml of W2898 + 49.75000ml of | of WP99896 | = Final Quar | ntity: 50 000 m | 1 | | (VVC) | |

| Recipe | | | | Expiration | <u>Prepared</u> | | | Supervised By |
|-----------|-------------------|------------|------------|-------------|-----------------|----------------|------------------|---------------|
| <u>ID</u> | NAME | <u>NO.</u> | Prep Date | <u>Date</u> | <u>By</u> | <u>ScaleID</u> | <u>PipetteID</u> | Iwona Zarych |
| 1841 | Sulfuric Acid, 1N | WP110386 | 10/24/2024 | 04/24/2025 | Rubina Mughal | None | WETCHEM_F | |
| | | | | | | | IPETTE_3 | 10/24/2024 |

FROM 2.80000ml of M5673 + 97.20000ml of W3112 = Final Quantity: 100.000 ml



Fax: 908 789 8922

Wet Chemistry STANDARD PREPARATION LOG

| Recipe ID | <u>NAME</u> | <u>NO.</u> | Prep Date | Expiration Date | Prepared By | <u>ScaleID</u> | <u>PipettelD</u> | Supervised By Iwona Zarych |
|--------------|-------------|------------|------------|--------------------|----------------|----------------|------------------|----------------------------|
| 229 | 1:1 HCL | WP110826 | 11/22/2024 | 05/13/2025 | Jignesh Parikh | None | None | • |
| | | | | | | | | 11/22/2024 |

| FROM | 500.00000ml of M6121 + 500.00000ml of W3112 = Final Quantity: 1.000 L |
|-------------|---|
|-------------|---|

| Recipe | | | | Expiration | Prepared | | | Supervised By |
|-----------|----------------------|------------|------------|-------------|---------------|----------------|------------------|---------------|
| <u>ID</u> | <u>NAME</u> | <u>NO.</u> | Prep Date | <u>Date</u> | <u>By</u> | <u>ScaleID</u> | <u>PipetteID</u> | Iwona Zarych |
| 1571 | Sodium hydroxide, 1N | WP111323 | 01/09/2025 | 07/09/2025 | Rubina Mughal | WETCHEM_S | None | • |
| | | | | | | CALE_8 (WC | | 01/09/2025 |

FROM 4.00000gram of W3113 + 96.00000ml of W3112 = Final Quantity: 100.000 ml



Alliance

Fax: 908 789 8922

Wet Chemistry STANDARD PREPARATION LOG

| Recipe ID | NAME. | NO. | Prep Date | Expiration Date | Prepared By | <u>ScaleID</u> | <u>PipetteID</u> | Supervised By Iwona Zarych |
|--------------|------------------------|-----------------|------------|--------------------|-----------------------|-------------------------|------------------|----------------------------|
| 2456 | COD Stock std, 1000ppm | <u>WP111514</u> | 01/22/2025 | 01/29/2025 | Niha Farheen Shaik | WETCHEM_S CALE_5 (WC | | 01/22/2025 |
| | 0.00500 | <u> </u> | . =: | | | SC-5) | | |

FROM 0.08500gram of W3169 + 100.00000ml of W3112 = Final Quantity: 100.000 ml

| Recipe | | | | Expiration | <u>Prepared</u> | | | Supervised By |
|-----------|---------------------------|----------|------------|-------------------|-----------------|----------------|------------------|---------------|
| <u>ID</u> | <u>NAME</u> | NO. | Prep Date | <u>Date</u> | <u>By</u> | <u>ScaleID</u> | <u>PipetteID</u> | Iwona Zarych |
| 2457 | COD Stock std-SS, 1000ppm | WP111515 | 01/22/2025 | 01/29/2025 | Niha Farheen | WETCHEM_S | None | |
| | | | | | Shaik | CALE_5 (WC | | 01/22/2025 |

FROM 0.08500gram of W2784 + 100.00000ml of W3112 = Final Quantity: 100.000 ml



Alliance

Fax: 908 789 8922

Wet Chemistry STANDARD PREPARATION LOG

| 139 COD calibration std. 0 ppm WP111516 01/22/2025 01/29/2025 Niha Farheen Shaik None None 01/22/2025 | Recip ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | <u>ScaleID</u> | <u>PipetteID</u> | Supervised By Iwona Zarych |
|---|-------------|----------------------------|----------|------------|--------------------|----------------|----------------|------------------|----------------------------|
| | 139 | COD calibration std. 0 ppm | WP111516 | 01/22/2025 | 01/29/2025 | | None | None | , |

FROM 10.00000ml of W3112 = Final Quantity: 10.000 ml

| Recipe | | | | Expiration | Prepared | | | Supervised By |
|-----------|-----------------------------|------------|------------|-------------|--------------|----------------|------------------|---------------|
| <u>ID</u> | <u>NAME</u> | <u>NO.</u> | Prep Date | <u>Date</u> | <u>By</u> | <u>ScaleID</u> | <u>PipetteID</u> | lwona Zarych |
| 138 | COD calibration std. 10 ppm | WP111517 | 01/22/2025 | 01/29/2025 | Niha Farheen | None | WETCHEM_F | |
| | | | | | Shaik | | IPETTE_3 | 01/22/2025 |

FROM 9.90000ml of W3112 + 0.10000ml of WP111514 = Final Quantity: 10.000 ml



Aliance

Fax: 908 789 8922

Wet Chemistry STANDARD PREPARATION LOG

| Recipe ID | NAME. | NO. | Prep Date | Expiration Date | Prepared By | <u>ScaleID</u> | <u>PipetteID</u> | Supervised By Iwona Zarych |
|--------------|-----------------------------------|-----------------|--------------|--------------------|-----------------------|----------------|-----------------------|----------------------------|
| 137 | COD calibration std. 50 ppm | <u>WP111518</u> | 01/22/2025 | 01/29/2025 | Niha Farheen Shaik | None | WETCHEM_F IPETTE_3 | 01/22/2025 |
| | 0.50000ml of W2442 + 0.50000ml of | MD444544 | - Final Over | titu 10 000 | | | (WC) | |

| FROM | 9.50000mi of W3112 + 0.50000mi of WP111514 = Final Quantity: 10.000 mi |
|------|--|
| | |

| Recipe | | | | Expiration | <u>Prepared</u> | | | Supervised By |
|-----------|------------------------------|------------|------------|-------------|-----------------|----------------|------------------|---------------|
| <u>ID</u> | <u>NAME</u> | <u>NO.</u> | Prep Date | <u>Date</u> | <u>By</u> | <u>ScaleID</u> | <u>PipetteID</u> | Iwona Zarych |
| 136 | COD calibration std. 100 ppm | WP111519 | 01/22/2025 | 01/29/2025 | Niha Farheen | None | WETCHEM_F | |
| | | | | | Shaik | | IPETTE_3 | 01/22/2025 |

FROM 9.00000ml of W3112 + 1.00000ml of WP111514 = Final Quantity: 10.000 ml



Alliance

Fax: 908 789 8922

Wet Chemistry STANDARD PREPARATION LOG

| Recipe | | | | Expiration | <u>Prepared</u> | | | Supervised By |
|-----------|------------------------------|------------|------------|-------------|-----------------|----------------|------------------|---------------|
| <u>ID</u> | NAME | <u>NO.</u> | Prep Date | <u>Date</u> | <u>By</u> | <u>ScaleID</u> | <u>PipetteID</u> | Iwona Zarych |
| 135 | COD calibration std. 150 ppm | WP111520 | 01/22/2025 | 01/29/2025 | Niha Farheen | None | WETCHEM_F | • |
| | | | | | Shaik | | IPETTE_3 | 01/22/2025 |
| | | | | | | | (WC) | |

| FROM 8 | .50000ml of W3112 + | 1.50000ml of WP111514 | = Final Quantity: 10.000 ml |
|--------|---------------------|-----------------------|-----------------------------|
|--------|---------------------|-----------------------|-----------------------------|

| Recipe | | | | Expiration | Prepared | | | Supervised By |
|-----------|------------------------|------------|------------|-------------|--------------|----------------|------------------|---------------|
| <u>ID</u> | <u>NAME</u> | <u>NO.</u> | Prep Date | <u>Date</u> | <u>By</u> | <u>ScaleID</u> | <u>PipetteID</u> | Iwona Zarych |
| 2459 | COD ICV-LCS std, 50ppm | WP111522 | 01/22/2025 | 01/29/2025 | Niha Farheen | None | WETCHEM_F | • |
| | | | | | Shaik | | IPETTE_3 | 01/22/2025 |

FROM 9.50000ml of W3112 + 0.50000ml of WP111515 = Final Quantity: 10.000 ml



Alliance

Fax: 908 789 8922

Wet Chemistry STANDARD PREPARATION LOG

| Recipe ID | NAME. | NO. | Prep Date | Expiration Date | Prepared By | <u>ScaleID</u> | <u>PipetteID</u> | Supervised By Iwona Zarych |
|--------------|------------------------|----------|---------------|--------------------|----------------|----------------|------------------|----------------------------|
| 2456 | COD Stock std, 1000ppm | WP112002 | 02/21/2025 | 02/28/2025 | Niha Farheen | WETCHEM_S | | |
| | | | | | Shaik | CALE_5 (WC | | 02/21/2025 |
| | 0.00500 100.00000 | | O - Final Out | | I | SC-5) | | |

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|--------------|------|-----|------------|--------------------|----------------|------------|-----------|---------------|
| 2457 | | | 02/21/2025 | · | | WETCHEM_S | | Iwona Zarych |
| | | | | | Shaik | CALE_5 (WC | | 02/21/2025 |

FROM 0.08500gram of W2784 + 100.00000ml of W3112 = Final Quantity: 100.000 ml



Alliance TECHNICAL GROUP

Fax: 908 789 8922

Wet Chemistry STANDARD PREPARATION LOG

| Recipe ID | <u>NAME</u> | NO. | Prep Date | Expiration Date | Prepared By | <u>ScaleID</u> | <u>PipettelD</u> | Supervised By Iwona Zarych |
|--------------|-----------------------------------|----------|--------------|--------------------|-----------------------|----------------|-----------------------|----------------------------|
| 2458 | COD CCV std, 50ppm | WP112004 | 02/21/2025 | 02/28/2025 | Niha Farheen Shaik | None | WETCHEM_F IPETTE_3 | 02/21/2025 |
| 50014 | 0 50000ml of W2412 + 0 50000ml of | MD112002 | - Final Ouan | otitu: 10 000 ml | | | (WC) | |

| <u>FROM</u> | 9.50000ml of W3112 + 0.50000ml of WP112002 = Final Quantity: 10.000 ml |
|-------------|--|
| | |

| Recipe | | | | Expiration | Prepared | | | Supervised By |
|-----------|------------------------|------------|------------|-------------|--------------|----------------|------------------|---------------|
| <u>ID</u> | NAME | <u>NO.</u> | Prep Date | <u>Date</u> | <u>By</u> | <u>ScaleID</u> | <u>PipetteID</u> | Iwona Zarych |
| 2459 | COD ICV-LCS std, 50ppm | WP112005 | 02/21/2025 | 02/28/2025 | Niha Farheen | None | WETCHEM_F | |
| | | | | | Shaik | | IPETTE_3 | 02/21/2025 |
| | | | | | | | (WC) | |

FROM 9.50000ml of W3112 + 0.50000ml of WP112003 = Final Quantity: 10.000 ml



Alliance

Fax: 908 789 8922

Wet Chemistry STANDARD PREPARATION LOG

| Recipe ID | NAME | <u>NO.</u> | Prep Date | Expiration Date | Prepared By | <u>ScaleID</u> | <u>PipetteID</u> | Supervised By Iwona Zarych |
|--------------|--------------------|------------|------------|--------------------|----------------|----------------|------------------|----------------------------|
| 127 | BOD Dilution fluid | WP112062 | 02/26/2025 | 02/27/2025 | Rubina Mughal | None | None | |
| | | | | | | | | 02/27/2025 |
| | | | | | | | | |

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

| Recipe ID | NAME | <u>NO.</u> | Prep Date | Expiration Date | Prepared By | <u>ScaleID</u> | <u>PipettelD</u> | Supervised By Iwona Zarvch |
|--------------|-----------------------------------|------------|------------|--------------------|----------------|------------------------|------------------|----------------------------|
| 129 | Glutamic acid-glucose mix for BOD | WP112063 | 02/26/2025 | 02/27/2025 | Rubina Mughal | WETCHEM_S CALE_6 (M | None | 02/27/2025 |

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



Alliance

Fax: 908 789 8922

Wet Chemistry STANDARD PREPARATION LOG

| Recipe ID | <u>NAME</u> | NO. | Prep Date | Expiration Date | Prepared By | <u>ScaleID</u> | <u>PipetteID</u> | Supervised By Iwona Zarych |
|--------------|-----------------------|----------|------------|--------------------|----------------|----------------|------------------|----------------------------|
| 128 | polyseed seed control | WP112064 | 02/26/2025 | 02/27/2025 | Rubina Mughal | None | None | , |
| | | | | | | | | 02/27/2025 |
| | | | | | | | | |

| Recipe ID | NAME_ | NO. | Prep Date | Expiration Date | <u>Prepared</u> <u>By</u> | <u>ScaleID</u> | <u>PipetteID</u> | Supervised By Iwona Zarych |
|--------------|--|---------|------------|--------------------|------------------------------|-------------------------|------------------|----------------------------|
| 11 | Sodium hydroxide absorbing solution 0.25 N | WP99896 | 11/15/2022 | 05/15/2023 | Jignesh Parikh | WETCHEM_S CALE 4 (WC | None | 11/15/2022 |
| | Solution 0.25 N | | | | | SC-4) | | 11/15 |

FROM 21.00000L of W2606 + 210.00000gram of W2845 = Final Quantity: 21.000 L



| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|--------------------------------|---|---------------------|--------------------|----------------------------|--------------------------------|-------------------|
| PCI Scientific Supply, Inc. | PC19631-100 / SODIUM SULFATE, ANHYDROUS, PEST GRADE, 1 | 313201 | 07/01/2025 | 01/03/2024 / Rajesh | 07/20/2023 / Rajesh | E3551 |
| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
| Seidler Chemical | BA-9673-33 / Sulfuric Acid, Instra-Analyzed (cs/6c2.5L) | 23D2462010 | 03/20/2028 | 09/21/2023 / mohan | 09/05/2023 / mohan | M5673 |
| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
| PCI Scientific Supply, Inc. | 140440 / TEST PAPERS,PH,0-2.5,.2SENSI, 100PK | 80A0441 | 02/29/2028 | 09/03/2024 / jignesh | 08/19/2024 / Jaswal | M6069 |
| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
| Seidler Chemical | BA-9530-33 / Hydrochloric Acid, Instra-Analyzed (cs/6x2.5L) | 0000275677 | 05/13/2025 | 11/13/2024 / Eman | 10/13/2024 / Eman | M6121 |
| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
| Seidler Chemical | DIW / DI Water | Daily Lab-Certified | 10/24/2024 | 10/24/2019 / apatel | 10/24/2019 / apatel | W2606 |
| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
| | AC156212500 / | A0405990 | 01/24/2030 | 01/24/2020 / | 01/24/2020 / | W2653 |



| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|--------------------------------|---|---------------------|--------------------|----------------------------|-------------------------------------|---------------------|
| PCI Scientific Supply, Inc. | D16-500 / DEXTROSE ANHYDROUS ACS REAGENT, 500G(New) | 186122A | 01/24/2030 | 01/24/2020 / apatel | 01/24/2020 / apatel | W2654 |
| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
| Seidler Chemical | BA-9254-03 / Acetone, Ultra Resi (cs/4x4L) | 0000263246 | 06/17/2023 | 12/23/2020 / ketankumar | 12/23/2020 / ketankumar | W2783 |
| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
| PCI Scientific Supply, Inc. | P243-500 / Potassium Hydrogen Phthalate, 500 gms | 201089 | 06/30/2025 | 12/23/2020 / apatel | 12/16/2020 / apatel | W2784 |
| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
| PCI Scientific | PC19510-7 / Sodium | 21C2456604 | 01/31/2024 | 03/30/2022 / | 06/24/2021 / | W2845 |
| Supply, Inc. | Hydroxide Pellets 12 Kg | | | JIGNESH | apatel | VV20 4 3 |
| Supply, Inc. Supplier | Hydroxide Pellets 12 Kg ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | apatel Received Date / Received By | Chemtech Lot # |
| | | Lot # HC03107133 | 1 - | Date Opened / | Received Date / | Chemtech |
| Supplier | ItemCode / ItemName 90157 / Cyanide Standard, | | Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |



| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---------------------------------------|---|------------------|--------------------|----------------------------|---------------------------------|-------------------|
| PCI Scientific Supply, Inc. | 136742-80 / POLYSEED | 152305 | 05/30/2025 | 02/15/2024 / Rubina | 10/18/2023 / Iwona | W3059 |
| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
| PCI Scientific Supply, Inc. | 04667-2.5 / Silica Gel (60-200 mesh), 2.5 KG | 072154301 | 01/30/2029 | 05/07/2024 / jignesh | 01/30/2024 / jignesh | W3079 |
| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
| PCI Scientific Supply, Inc. | 4620-32 / MANGANOUS SULFATE SOLUTION-364 | 2403J02 | 03/31/2026 | 04/22/2024 / Iwona | 04/22/2024 / Iwona | W3103 |
| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
| PCI Scientific Supply, Inc. | AL69870-8 / SODIUM THIOSULFATE,0.025N,4LIT RE | 4403S13 | 09/30/2025 | 04/22/2024 / Iwona | 04/22/2024 / Iwona | W3105 |
| | <u> </u> | | | 1 | L | |
| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
| Supplier PCI Scientific Supply, Inc. | ItemCode / ItemName AL04100-4 / Alkaline lodide Azide, 1 L | Lot # 1405D67 | - | - | | |
| PCI Scientific | AL04100-4 / Alkaline | | Date | Opened By 05/23/2024 / | Received By 05/23/2024 / | Lot # |



| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|--------------------------------|---|------------|--------------------|----------------------------|--------------------------------|-------------------|
| PCI Scientific Supply, Inc. | PC19510-7 / Sodium Hydroxide Pellets 12 Kg | 23B1556310 | 12/31/2025 | 07/08/2024 / lwona | 07/08/2024 / Iwona | W3113 |
| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
| Environmental Express LTD | B1010 / COD Digestion Vials Low Level 0-150Mg/L | 13798 | 09/30/2027 | 02/17/2025 / Niha | 07/25/2024 / Iwona | W3126 |
| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
| HACH | 1486266 / BOD Nutrient Buffer Pillows, 6 mL concentrate to make 6 L, 50/pk | A4169 | 06/30/2029 | 11/20/2024 / rubina | 10/01/2024 / Iwona | W3144 |
| 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 / | Chemtech Lot # |
| PCI Scientific Supply, Inc. | P243-500 / Potassium Hydrogen Phthalate, 500 gms | 24H0956262 | 04/28/2026 | 01/03/2025 / Iwona | 01/03/2025 / Iwona | W3169 |
| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
| Seidler Chemical | BA-9262-03 / Hexane, Ultra-Resi (cs/4x4L) | 24G1962003 | 08/22/2025 | 02/03/2025 / jignesh | 01/31/2025 / jignesh | W3177 |



Certificate of Analysis

1.19533.0500 Cyanide standard solution traceable to SRM from NIST K₂[Zn(CN)₄] in H₂O

1000 mg/I CN Certipur®

HC03107133 **Batch**

| | | | | | |
|---------------|----------------------|--------------|------|------|--|
| | | Batch Values | | | |
| Concentration | β (CN ⁻) | 1002 | mg/l | | |

Determination method: Argentometric titration.

The content of this solution was determined with silver nitrate standard solution (article number 1.09081) standardized against volumetric standard sodium chloride (article number 1.02406). The expanded measurement uncertainty is \pm 0.7 % (k=2 coverage factor for 95% of the expanded measurement uncertainty is \pm 0.7 % (k=2 coverage factor for 95% of the expanded measurement uncertainty is \pm 0.7 % (k=2 coverage factor for 95% of the expanded measurement uncertainty is \pm 0.7 % (k=2 coverage factor for 95% of the expanded measurement uncertainty is \pm 0.7 % (k=2 coverage factor for 95% of the expanded measurement uncertainty is \pm 0.7 % (k=2 coverage factor for 95% of the expanded measurement uncertainty is \pm 0.7 % (k=2 coverage factor for 95% of the expanded measurement uncertainty is \pm 0.7 % (k=2 coverage factor for 95% of the expanded measurement uncertainty is \pm 0.7 % (k=2 coverage factor for 95% of the expanded measurement uncertainty is \pm 0.7 % (k=2 coverage factor for 95% of the expanded measurement uncertainty is \pm 0.7 % (k=2 coverage factor for 95% of the expanded measurement uncertainty is \pm 0.7 % (k=2 coverage factor for 95% of the expanded measurement uncertainty is \pm 0.7 % (k=2 coverage factor for 95% of the expanded measurement uncertainty is \pm 0.7 % (k=2 coverage factor fac coverage probability). The certified value is traceable to primary standard NIST SRM 999c (NIST: National Institute of Standards and Technology, USA) by means of volumetric standard sodium chloride, measured in the accredited calibration laboratory of Merck KGaA, Darmstadt, Germany in accordance to DIN EN ISO/IEC 17025.

Date of release (DD.MM.YYYY) 02.07.2020 Minimum shelf life (DD.MM.YYYY) 30.06.2023

Ayfer Yildirim

Responsible laboratory manager quality control

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

Acetone
ULTRA RESI-ANALYZED
For Organic Residue Analysis



Material No.: 9254-03 Batch No.: 0000263246

Manufactured Date: 2020/06/17 Expiration Date: 2023/06/17

Revision No: 1

Certificate of Analysis

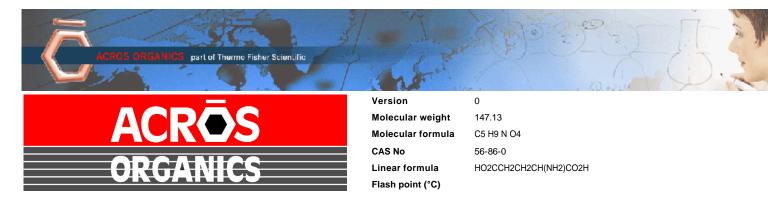
| Test | Specification | Result |
|---|---------------|--------|
| Assay ((CH ₃) ₂ CO) (by GC, corrected for water) | >= 99.4 % | 99.7 |
| Color (APHA) | <= 10 | 5 |
| Residue after Evaporation | <= 1.0000 ppm | 0.1000 |
| Substances Reducing Permanganate | Passes Test | PT |
| Titrable Acid (µeq/g) | <= 0.3 | 0.1 |
| Titrable Base (µeq/g) | <= 0.6 | < 0.1 |
| Water (H₂O) | <= 0.5 % | 0.3 |
| FID–Sensitive Impurities (as 2–Octanol) Single Impurity Peak (ng/mL) | <= 5 | < 1 |
| ECD Sensitive Impurities (as Heptachlor Epoxide) Single Peak (pg/mL) | <= 10 | 5 |

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

Country of Origin: US

Packaging Site: Phillipsburg Mfg Ctr & DC





Certificate of Analysis

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

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

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

| Result Name | Specifications | Test Value |
|---------------------------|--|--|
| Appearance (Color) | White | White |
| Appearance (Form) | Powder | Powder |
| Infrared spectrum | Conforms | Conforms |
| Titration with NaOH | 98.5 to 100.5 % (On dried substance) | 99.32 % (On dried substance) |
| Loss on drying | =<0.5 % (105°C, 3 hrs) | 0.002 % (105°C, 3 hrs) |
| Heavy metals (as Pb) | =<10 ppm | =<10 ppm |
| Sulfated ash | =<0.1 % | 0.08 % |
| Other amino acids | not detectable | not detectable |
| Specific optical rotation | +30.5° to +32.5° (20°C, 589 nm) (on dried substance) | +32° (20°C, 589 nm) (on dried substance) |
| Specific optical rotation | (c=10, 2N HCI) | (c=10, 2N HCI) |
| Chloride (CI) | =<200 ppm | =<200 ppm |
| Iron (Fe) | =<30 ppm | =<10 ppm |
| Sulfate (SO4) | =<300 ppm | =<200 ppm |
| Ammonium (NH4) | =<200 ppm | =<200 ppm |
| Arsenic oxide (As2O3) | =<1 ppm | =<1 ppm |





L. Van den Broek, QA Manager

Acros Organics ENA23, zone 1, nr 1350, Janssen Pharmaceuticalaan 3a, B-2440 Geel, Belgium Tel +32 14/57.52.11 - Fax +32 14/59.34.34 Internet: http://www.acros.com 1 Reagent Lane, Fair Lawn, NJ 07410,USA Fax 201-796-1329

Issued: 24 January 2020





CERTIFICATE OF ANALYSIS

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

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

PolySeed® • Part No. P-110 • Lot 152305 • Mfg. Date: 05/2023 • Exp. Date: 05/2025

FORMULATION:

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

VIABLE COUNT, FINAL TEST RESULT:

The product has been fully tested in accordance with Finished Product Specifications and contains a minimum viable count of 4.00 x10⁹ cfu/a.

GLUCOSE/GLUTAMIC-ACID RESULTS:

Tested results within acceptable range 198 +/- 30.5 mg/L (167.5 - 228.5 mg/L). GGA Lot# L257-09 – Average Test Result: 203.4

See www.polyseed.com for details.

SEED CONTROL FACTOR:

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

SALMONELLA TEST RESULT:

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

The purpose of this document is to assure that the Finished Product conforms to the above specification.

Signature:

Date: 05/15/2023

Quality Control Department

POLYSEED.Ref.1.19

Revised Jan 23





Certificate of Analysis Page 1 of 1



Certificate of Analysis

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

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

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

| Catalog Number | D16 | Quality Test / Release Date | 03/19/2019 |
|-------------------|---|-----------------------------|------------|
| Lot Number | 186122A | | |
| Description | DEXTROSE, ANHYDROUS, A.C.S. | | |
| Country of Origin | United States | Suggested Retest Date | Mar/2022 |
| Chemical Origin | Organic - Plant | | |
| BSE/TSE Comment | No animal products are used as starting processing aids, or any other material that | • | |
| Chemical Comment | | | |

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

Derisa Bailey- Wyche

Quality Assurance Specialist - Certificate of Analysis Fair Lawn



Certificate of Analysis

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

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

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

| Catalog Number | P243 | Quality Test / Release Date | 06/19/2020 |
|-------------------|---|-----------------------------|------------|
| Lot Number | 201089 | • | |
| Description | POTASSIUM HYDROGEN PHTHALATE | ACIDIMETRIC STANDARD, A.C.S | S. |
| Country of Origin | Spain | Suggested Retest Date | Jun/2025 |
| Chemical Origin | Organic - non animal | | |
| BSE/TSE Comment | No animal products are used as starting raw material ingredients, or used in processing, including lubricants, processing aids, or any other material that might migrate to the finished product. | | |

| N/A | | | |
|------------------------------------|------------------------|----------------------------------|----------------|
| Result Name | Units | Specifications | Test Value |
| APPEARANCE | | REPORT | WHITE CRYSTALS |
| ASSAY POTASSIUM HYDROGEN PHTHALATE | % | Inclusive Between 99.95 - 100.05 | 100.03 |
| CHLORINE COMPOUNDS | % | <= 0.003 | <0.003 |
| HEAVY METALS (as Pb) | ppm | <= 5 | <5 |
| IDENTIFICATION | PASS/FAIL | = PASS TEST | PASS TEST |
| INSOLUBLE MATTER | % | <= 0.005 | <0.005 |
| IRON (Fe) | ppm | <= 5 | <5 |
| PH OF 0.05M SOLUTION | | Inclusive Between 4.00 - 4.02 | 4.00 |
| SODIUM (Na) | % | <= 0.005 | <0.005 |
| SULFUR COMPOUNDS | % | <= 0.002 | <0.002% |
| TRACEABLE TO NIST | SOD CARBONATE | = LOT 351a | 351a |
| TRACEABLE TO NIST KHP STD | POT. ACID PHTHALATE | = LOT 84L | 84L |

Julian Burton

Julian Burton - Quality Control Manager - Fair Lawn

^{*}Based on suggested storage condition.



MIRADOR 201, COL. MIRADOR MONTERREY, N.L. MEXICO CP 64070 TEL +62 81 13 52 57 57 www.pqm.com,mx

CERTIFICATE OF ANALYSIS

PRODUCT:

SODIUM SULFATE CRYSTALS ANHYDROUS

QUALITY:

ACS (CODE RMB3375)

FORMULA:

Na₂SO₄

SPECIFICATION NUMBER: 6399

RELEASE DATE:

ABR/21/2023

LOT NUMBER:

313201

| TEST | SPECIFICATIONS | LOT VALUES |
|--|----------------|-------------|
| Assay (Na ₂ SO ₄) | Min. 99.0% | 99.7 % |
| pH of a 5% solution at 25°C | 5.2 - 9.2 | 6.1 |
| Insoluble matter | Max. 0.01% | 0.005 % |
| Loss on ignition | Max. 0.5% | 0.1 % |
| Chloride (Cl) | Max. 0.001% | <0.001 % |
| Nitrogen compounds (as N) | Wax. 5 ppm | <5 ppm |
| Phosphate (PO ₄) | Max. 0.001% | <0.001 % |
| Heavy metals (as Pb) | Max. 5 ppm | <5 ppm |
| Iron (Fe) | Max. 0.001% | <0.001 % |
| Calcium (Ca) | Max. 0.01% | 0.002 % |
| Magnesium (Mg) | Max. 0.005% | 0.001 % |
| Potassium (K) | Max. 0.008% | 0.003 % |
| Extraction-concentration suitability | Passes test | Passes test |
| Appearance | Passes test | Passes test |
| Identification | Passes test | Passes test |
| Solubility and foreing matter | Passes test | Passes test |
| Retained on US Standard No. 10 sieve | Max. 1% | 0.1 % |
| Retained on US Standard No. 60 sieve | Min. 94% | 97.3 % |
| Through US Standard No. 60 sieve | Max. 5% | 25% |
| Through US Standard No. 100 sieve | Max. 10% | 0.1 % |

COMMENTS

QC: PhC Irma Belmares

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

Recd. by Ri on 7/4/3 E 3551

RE-02-01, Del

Sulfuric Acid BAKER INSTRA-ANALYZED® Reagent

For Trace Metal Analysis

Low Selenium









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

Manufactured Date: 2023-03-22

Retest Date: 2028-03-20 Revision No.: 0

Certificate of Analysis

| Test | Specification | Result | _ |
|---|---------------|-------------|---|
| ACS – Assay (H ₂ SO ₄) | 95.0 - 98.0 % | 96.1 % | _ |
| Appearance | Passes Test | Passes Test | |
| ACS – Color (APHA) | ≤ 10 | 5 | |
| ACS – Residue after Ignition | ≤ 3 ppm | < 1 ppm | |
| ACS - Substances Reducing Permanganate (as SO2) | ≤ 2 ppm | < 2 ppm | |
| Ammonium (NH ₄) | ≤ 1 ppm | 1 ppm | |
| Chloride (Cl) | ≤ 0.1 ppm | < 0.1 ppm | |
| Nitrate (NO ₃) | ≤ 0.2 ppm | < 0.1 ppm | |
| Phosphate (PO ₄) | ≤ 0.5 ppm | < 0.1 ppm | |
| Trace Impurities - Aluminum (AI) | ≤ 30.0 ppb | < 5.0 ppb | |
| Arsenic and Antimony (as As) | ≤ 4.0 ppb | < 2.0 ppb | |
| Trace Impurities - Boron (B) | ≤ 10.0 ppb | 8.5 ppb | |
| Trace Impurities – Cadmium (Cd) | ≤ 2.0 ppb | < 0.3 ppb | |
| Trace Impurities – Chromium (Cr) | ≤ 6.0 ppb | < 0.4 ppb | |
| Trace Impurities - Cobalt (Co) | ≤ 0.5 ppb | < 0.3 ppb | |
| Trace Impurities – Copper (Cu) | ≤ 1.0 ppb | < 0.1 ppb | |
| Trace Impurities – Gold (Au) | ≤ 10.0 ppb | 0.5 ppb | |
| Heavy Metals (as Pb) | ≤ 500.0 ppb | < 100.0 ppb | |
| Trace Impurities - Iron (Fe) | ≤ 50.0 ppb | 1.3 ppb | |
| Trace Impurities - Lead (Pb) | ≤ 0.5 ppb | < 0.5 ppb | |
| Trace Impurities – Magnesium (Mg) | ≤ 7.0 ppb | 0.8 ppb | |
| Trace Impurities – Manganese (Mn) | ≤ 1.0 ppb | < 0.4 ppb | |
| Trace Impurities - Mercury (Hg) | ≤ 0.5 ppb | < 0.1 ppb | |
| Trace Impurities - Nickel (Ni) | ≤ 2.0 ppb | 0.3 ppb | |
| Trace Impurities – Potassium (K) | ≤ 500.0 ppb | < 2.0 ppb | |
| Trace Impurities - Selenium (Se) | ≤ 50.0 ppb | < 0.1 ppb | |
| Trace Impurities - Silicon (Si) | ≤ 100.0 ppb | 31.5 ppb | |
| Trace Impurities – Silver (Ag) | ≤ 1.0 ppb | < 0.3 ppb | |
| | | | |

>>> Continued on page 2 >>>

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





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

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

For Laboratory, Research, or Manufacturing Use

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





Certificate of Analysis

Product information

Product

pH-Fix 0.3-2.3

REF

92180

LOT

80A0441

Expiration date:

29.02.2028

Date of examination:

23.01.2024

Gradation:

pH 0.3-0.7-1.0-1.3-1.6-1.9-2.3

Confirmation

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

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

US Tel.: +1 888 321 62 24 sales-us@mn-net.com

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





R->16/13/24 Met dig

M 6/21

Material No.: 9530-33 Batch No.: 0000275677 Manufactured Date: 2020/12/16 Retest Date: 2025/12/15

Revision No: 1

Certificate of Analysis

| Test | Specification | Result |
|---|---------------|---------|
| ACS - Assay (as HCl) (by acid-base titrn) | 36.5 - 38.0 % | 37.6 |
| ACS - Color (APHA) | <= 10 | 5 |
| ACS - Residue after Ignition | <= 3 ppm | 1 |
| ACS - Specific Gravity at 60°/60°F | 1.185 – 1.192 | 1.190 |
| ACS – Bromide (Br) | <= 0.005 % | < 0.005 |
| ACS - Extractable Organic Substances | <= 5 ppm | 1 |
| ACS - Free Chlorine (as Cl2) | <= 0.5 ppm | < 0.5 |
| Phosphate (PO ₄) | <= 0.05 ppm | < 0.03 |
| Sulfate (SO ₄) | <= 0.5 ppm | < 0.3 |
| Sulfite (SO ₃) | <= 0.8 ppm | 0.3 |
| Ammonium (NH ₄) | <= 3 ppm | < 1 |
| Trace Impurities – Arsenic (As) | <= 0.010 ppm | < 0.003 |
| Trace Impurities - Aluminum (Al) | <= 10.0 ppb | < 0.2 |
| Arsenic and Antimony (as As) | <= 5 ppb | < 3 |
| Trace Impurities – Barium (Ba) | <= 1.0 ppb | < 0.2 |
| Trace Impurities – Beryllium (Be) | <= 1.0 ppb | < 0.2 |
| Trace Impurities – Bismuth (Bi) | <= 10.0 ppb | < 1.0 |
| Trace Impurities – Boron (B) | <= 20.0 ppb | < 5.0 |
| Frace Impurities – Cadmium (Cd) | <= 1.0 ppb | < 0.3 |
| Frace Impurities – Calcium (Ca) | <= 50.0 ppb | 29.7 |
| race Impurities – Chromium (Cr) | <= 1.0 ppb | < 0.4 |
| race Impurities – Cobalt (Co) | <= 1.0 ppb | < 0.4 |
| race Impurities – Copper (Cu) | <= 1.0 ppb | < 0.1 |
| race Impurities – Gallium (Ga) | <= 1.0 ppb | < 0.2 |

Material No.: 9530-33 Batch No.: 0000275677

| Test | Specification | Result |
|--|---------------|--------------|
| Trace Impurities - Germanium (Ge) | <= 3.0 ppb | < 2.0 |
| Trace Impurities - Gold (Au) | <= 4.0 ppb | < 0.2 |
| Heavy Metals (as Pb) | <= 100 ppb | < 50 |
| Trace Impurities – Iron (Fe) | <= 15.0 ppb | <1 |
| Trace Impurities – Lead (Pb) | <= 1.0 ppb | < 0.5 |
| Trace Impurities – Lithium (Li) | <= 1.0 ppb | 0.2 |
| Trace Impurities – Magnesium (Mg) | <= 10.0 ppb | 0.4 |
| Trace Impurities – Manganese (Mn) | <= 1.0 ppb | < 0.4 |
| Trace Impurities – Mercury (Hg) | <= 0.5 ppb | 0.1 |
| Trace Impurities – Molybdenum (Mo) | <= 10.0 ppb | < 5.0 |
| Trace Impurities – Nickel (Ni) | <= 4.0 ppb | < 0.3 |
| Trace Impurities – Niobium (Nb) | <= 1.0 ppb | < 0.2 |
| Frace Impurities – Potassium (K) | <= 9.0 ppb | < 2.0 |
| Frace Impurities - Selenium (Se), For Information Only | ppb | 1.0 |
| Trace Impurities - Silicon (Si) | <= 100.0 ppb | < 10.0 |
| race Impurities – Silver (Ag) | <= 1.0 ppb | < 0.3 |
| race Impurities – Sodium (Na) | <= 100.0 ppb | < 5.0 |
| race Impurities – Strontium (Sr) | <= 1.0 ppb | < 0.2 |
| race Impurities – Tantalum (Ta) | <= 1.0 ppb | < 0.9 |
| race Impurities – Thallium (TI) | <= 5.0 ppb | < 2.0 |
| race Impurities – Tin (Sn) | <= 5.0 ppb | < 0.8 |
| race Impurities - Titanium (Ti) | <= 1.0 ppb | 0.8 |
| race Impurities – Vanadium (V) | <= 1.0 ppb | < 0.2 |
| race Impurities – Zinc (Zn) | <= 5.0 ppb | |
| race Impurities – Zirconium (Zr) | <= 1.0 ppb | 0.3 < 0.1 |

For Laboratory, Research or Manufacturing Use Product Information (not specifications): Appearance (clear, fuming liquid) Meets ACS Specifications

Country of Origin:

US

Packaging Site:

Phillipsburg Mfg Ctr & DC



W 2979

3050 Spruce Street, Saint Louis, MO 63103, USA

Website: www.sigmaaldrich.com

Email USA: techserv@sial.com
Outside USA: eurtechserv@sial.com

lec: 12/08/22

exp. 12/08/27

Certificate of Analysis

1,5-Diphenylcarbazide - ACS reagent

Product Number:

259225

Batch Number:

MKCR6636

Brand:

SIAL

CAS Number:

140-22-7

MDL Number:

MFCD00003013

Formula:

C13H14N4O

Formula Weight:

242.28 g/mol

Quality Release Date:

02 JUN 2022

| Test | Specification | Result | |
|--|---------------------------|----------|--|
| Appearance (Color) | Conforms to Requirements | Pink | |
| Off-White to Pink, Light Purple or Tan | - | | |
| Appearance (Form) | Powder or Chunks | Powder | |
| Melting Point | 173.0 - 176.0 ℃ | 173.0 °C | |
| Infrared Spectrum | Conforms to Structure | Conforms | |
| Residue on ignition (Ash) | < 0.05 % | 0.01 % | |
| 15 minutes, 800 Degrees Celsius | _ | | |
| Solubility | Pass | Pass | |
| Sensitivity Test | Pass | Pass | |
| Meets ACS Requirements | Current ACS Specification | Conforms | |

Larry Coers, Director Quality Control Milwaukee, WI US

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

Certificate of Analysis

Product information

Product:

Silica 60, 0.063 - 0.200 mm

REF:

815330.25

LOT:

072154301

Technical data

Material:

Synthethic amorphus silica (irregular shaped)

Description:

White powder

| Parameter | Specifications | Result |
|--|-------------------|--------|
| Specific surface (m³/g, N2 adsorption): | 450 - 550 | 537 |
| Particle size distribution (screen analysis) : | < 63 µm max. 5 % | 0.3 |
| | > 200 µm max. 5 % | 0.1 |
| pH value: | 6.0 - 7.5 | 7 |
| Water content (%): | <7 | 3.6 |
| Pore volume (mL/g, N2 adsorption) : | 0.65 - 0.85 | 0.82 |
| Mean pore size (Å, N2 adsorption): | 50 - 70 | 62 |

Expiry

This product has no stated expiration date or shelf life.

We recommend to use the product within a time period of 5 years after date of QC release.

This time period is valid only if the product is stored under dry and frost-free conditions.

After 5 years we recommend retesting the adsorbent to make sure that the expected performance is still given.

Confirmation

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

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

Date of measurement: 16.02.2023 22:00

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

customerservice@riccachemical.com

Certificate of Analysis

Manganous Sulfate Solution, 364 g/L

Lot Number: 2403J02 Product Number: 4620

Manufacture Date: MAR 15, 2024

Expiration Date: MAR 2026

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

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

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

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

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

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

Version: 1.3 Lot Number: 2403J02 Product Number: 4620 Page 1 of 2



Jose Pena (03/15/2024)

Operations Manager

This document is designed to comply with ISO Guide 31 "Reference Materials -- Contents of Certificates and Labels."

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Version: 1.3 Lot Number: 2403J02 Product Number: 4620 Page 2 of 2

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

customerservice@riccachemical.com

Certificate of Analysis

Sodium Thiosulfate, 0.0250 Normal (N/40)

Lot Number: 4403S13 Product Number: 7900

Manufacture Date: MAR 29, 2024

Expiration Date: SEP 2025

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

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

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

| Specification | Reference | |
|--|---------------------|--|
| Standard Sodium Thiosulfate Solution, 0.0250 N | APHA (4500-S2- F) | |
| Standard Sodium Thiosulfate Titrant | APHA (4500-O D) | |
| Standard Sodium Thiosulfate Titrant | APHA (4500-O E) | |
| Standard Sodium Thiosulfate Titrant | APHA (4500-O F) | |
| Standard Sodium Thiosulfate Titrant, 0.025 N | APHA (4500-Cl B) | |
| Standard Sodium Thiosulfate Titrant | APHA (4500-O C) | |
| 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 |
| | | |

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

Version: 1.3 Lot Number: 4403S13 Product Number: 7900 Page 1 of 2



Production Manager

This document is designed to comply with ISO Guide 31 "Reference Materials $^{\rm --}$ Contents of Certificates and Labels."

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Version: 1.3 Lot Number: 4403S13 Product Number: 7900 Page 2 of 2

448 West Fork Dr Arlington, TX 76012 http://www.riccachemical.com 1-888-GO-RICCA

customerservice@riccachemical.com

Certificate of Analysis

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

Lot Number: 1405D67 Product Number: 535

Manufacture Date: APR 05, 2024

Expiration Date: APR 2026

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

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

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

| Specification | Reference |
|---------------|-----------|
| | |

Alkaline Iodide-Sodium Azide Solution II

ASTM (D 888 A)

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

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

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

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

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Version: 1.3 Lot Number: 1405D67 Product Number: 535 Page 1 of 1



Certificate of Analysis

12/14/2022

12/31/2025

Sodium Hydroxide (Pellets)

Material: 0583

Grade: ACS GRADE Batch Number: 23B1556310

Chemical Formula: NaOH
Molecular Weight: 40

CAS #: 1310-73-2

Appearance: Storage: Room Temperature

Pellets

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

Manufacture Date:

Expiration Date:

Internal ID #: 710

Signature Additional Information

We certify that this batch conforms to the specifications listed.

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

Leona Edwardson, Quality Control Sr. Manager - Solon VWR Chemicals, LLC.

28600 Fountain Parkway, Solon OH 44139 USA

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

Product meets analytical specifications of the grades listed.



Certificate of Analysis

12/14/2022

12/31/2025

Room Temperature

Manufacture Date:

Expiration Date:

Storage:

Sodium Hydroxide (Pellets)

Material: 0583

Grade: ACS GRADE Batch Number: 23B1556310

Chemical Formula: NaOH Molecular Weight: 40

CAS #: 1310-73-2

Appearance:

Pellets

Spec Set: 0583ACS

Internal ID #: 710

Signature Additional Information

We certify that this batch conforms to the specifications listed.

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

Leona Edwardson, Quality Control Sr. Manager - Solon VWR Chemicals, LLC. 28600 Fountain Parkway, Solon OH 44139 USA Analysis may have been rounded to significant digits in specification limits.

Product meets analytical specifications of the grades listed.

· fee. 7/25/24 N 3123 EXP. 9/30/27 W 3125 W3126

ENVIRONMENTAL EXPRESS Charleston, SC USA www.envexp.com (800) 343-5319

October 20, 2022

CERTIFICATE OF ANALYSIS

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

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

| Cat. No. | Lot No. | Product Description |
|----------|---------|--------------------------------|
| B1010 | 13798 | COD Reagent Vials, 0 - 150 ppm |



An ISO 9001 Certified Company

Certificate of Analysis

This is a Component of 1486266 / LOT A4169

PRODUCT: BOD Nutrient Buffer Pillows

PRODUCT NUMBER: 1486227 LOT NUMBER: A4169

MANUFACTURE DATE: 06/24/2024 **DATE OF ANALYSIS:** 07/03/2024

| TEST | SPECIFICATIONS | RESULTS |
|---|------------------|-----------|
| Calcium Concentration of a diluted pillow | 0.93 to 1.29 ppm | 0.960 ppm |
| Magnesium Concentration of a diluted pillow | 0.35 to 0.48 ppm | 0.390 ppm |
| pH in a 6 L of DI water | 7.1 to 7.6 | 7.37 |
| Ammonia Concentration of a diluted pillow | 0.57 to 0.79 ppm | 0.593 ppm |
| Iron Concentration of a diluted pillow | 0.27 to 0.36 ppm | 0.311 ppm |
| Sterility | To Pass | Passed |
| Phosphorus Concentration of a diluted pillow | 7.6 to 10.3 ppm | 8.32 ppm |
| Five Day Change in Dissolved Oxygen Concentration | -0.2 to 0.2 ppm | 0.03 ppm |

The expiration date is Jun 2029

Certified by: Scottals

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

customerservice@riccachemical.com

Certificate of Analysis

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

Lot Number: 4408P62 Product Number: 8000 Manufacture Date: AUG 28, 2024

Expiration Date: AUG 2026

This product is Mercury-free.

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

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

| Specification | Reference |
|---------------------------|---------------------|
| Starch Solution | APHA (4500-S2- F) |
| Starch Indicator Solution | APHA (4500-C1 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-C1 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)

Version: 1.3 Lot Number: 4408P62 Product Number: 8000 Page 1 of 2



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

Version: 1.3 Lot Number: 4408P62 Product Number: 8000 Page 2 of 2



Certificate of Analysis

BDH9260-500G

BDH POTASS HYDRGN PHTHLTE 500G

ACS GRADE

 Batch
 24H0956262

 Reassay Date
 04/28/2026

 CAS Number
 877-24-7

Molecular Formula HOOCC6H4COOK

Molecular Mass 204.22

Date of Manufacture 04/29/2023

Storage Room Temperature

| Characteristics | Specifications | Measured Values | |
|------------------------|------------------|-----------------|--|
| Appearance | White crystals. | White crystals. | |
| Assay (dried basis) | 99.95 - 100.05 % | 99.98 % | |
| Chlorine Compounds | <= 0.003 % | <0.003 % | |
| Heavy Metals (as Pb) | <= 5 ppm | <5 ppm | |
| Insoluble Matter | <= 0.005 % | 0.003 % | |
| Iron | <= 5 ppm | <5 ppm | |
| pH (0.05M, Water) @25C | 4.00 - 4.02 | 4.00 | |
| Sodium | <= 0.005 % | <0.005 % | |
| Sulfur Compounds | <= 0.002 % | <0.002 % | |
| | | | |

Internal ID #: 322

Material

Grade

Material Description

Signature

Additional Information

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

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

Leona Edwardson, Quality Control Sr. Manager - Solon VWR Chemicals, LLC.

28600 Fountain Parkway, Solon OH 44139 USA

Analysis may have been rounded to significant digits in specification limits

Product meets analytical specifications of the grades listed.

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

Date Printed: 08/09/2024

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





Johns Certificate of Analysis

Material No.: 9262-03 Batch No.: 24G1962003

Manufactured Date: 2024-05-23 Expiration Date: 2025-08-22

Revision No.: 0

| Test | Specification | Result |
|---|---------------|-------------|
| FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL) | ≤ 5 | 3 |
| ECD Sensitive Impurities (as Heptachlor Epoxide) Single Peak (pg/mL) | ≤ 10 | 1 |
| ECD-Sensitive Impurities (as Ethylene Dibromide) - Single Impurity Peak (ng/mL) | ≤ 5 | 1 |
| Assay (Total Saturated Colsomers) (by GC, corrected for water) | ≥ 99.5 % | 99.7 % |
| Assay (as n-Hexane) (by GC, corrected for water) | ≥ 95 % | 98 % |
| Color (APHA) | ≤ 10 | 5 |
| Residue after Evaporation | ≤ 1.0 ppm | 0.1 ppm |
| Substances Darkened by H2SO4 | Passes Test | Passes Test |
| Water (by KF, coulometric) | ≤ 0.05 % | < 0.01 % |

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

Country of Origin: USA

Packaging Site: Phillipsburg Mfg Ctr & DC

Jamie Croak Director Quality Operations, Bioscience Production



SHIPPING DOCUMENTS



284 Sheffield Street, Mountainside, NJ 07092 (908) 789-8900 · Fax (908) 789-8922 www.chemtech.net

QUOTE NO.

coc Number 2046181

| | CLIENT INFORMATION | LVIII. | CLIENT PROJECT INFORMATION | | | | | | | | CLIENT BILLING INFORMATION | | | | | | | |
|---|--|--|----------------------------|-------------------------|-------------------|---|------------|---------|----------|---------|----------------------------|---------|-------|--------|-------|--------|-----------------|-------------------------|
| | REPORT TO BE SENT TO: | PROJECT NAME: WATERTING | | | | | | | BILL T | O: | SA | M | e, | | PO#: | | | |
| ADDRESS: ~ | 39-30 Review AV, | PROJEC | PROJECT NO.: LOCATION: A | | | | | | ADDRESS: | | | | | | | | | |
| CITY LOOG. | Island City STATE N/ ZIP: (1101 | PROJEC | CT M | ANAC | BER: | | | | | | CITY | | | | | STA | ΓE: | :ZIP: |
| ATTENTION: | Row/steve, | e-mail: | | | | | | | | | ATTEN | NTION: | | | | PHC | NE: | |
| PHONE: 83 | 92-8080 FAX: | PHONE | | | | FAX | X: | | | | | | | | AN | ALYSIS | | |
| | DATA TURNAROUND INFORMATION | | | DATA | DELIVE | RABLE IN | | ATION | 4.5 | 910 | | | | | ļi. | Ļ | ببلاب | |
| *TO BE APPRO | DAYS* ATA PACKAGE): DAYS* DAYS* VED BY CHEMTECH RDCOPY TURNAROUND TIME IS 10 BUSINESS | Level | 2 (Re 3 (Re w Dat | esults esults ta) | + QC) 🗆 + QC 🚨 | Level 4 (QC NJ Reduced NYS ASP A Other | □ U | S EPA C | LP _ | | / 4 | <u></u> | 6 | / | /8 | | | |
| ALLIANCE | PROJECT | SAMPLE | SAN | IPLE PE | | MPLE ECTION | TLES | 0 | W. | | PRES | SERVA | IIVES | | - | | < Speci | MMENTS fy Preservatives |
| SAMPLE ID | SAMPLE IDENTIFICATION | MATRIX | COMP | GRAB | DATE | TIME | OF BOTTLES | | - | - | | | | | | | A-HCI B-HN03 | D-NaOH E-ICE |
| 1. | Now Polar Materia C | | 0 | - | 276 25 | In An | 1 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | C-H2SO4 | F-OTHER |
| 2. | Non Polar Material | | | | | 10:30 | 1 | X | | | | | | | | | | |
| 3. | Nov Polar Material | | | × | T | 11 AM | i | X | | | | | | | | | | |
| 4. | New Polar Material | | | X | 22525 | | 7 | X | | | | | | | | | | |
| 5. | BOD | | X | _ | | 11130 | Ť | | × | | | | | | | | | |
| 6. | COD | | X | | 2-25-25 | 1120 | 1 | | | X | | | | | | | | |
| 7. | | | , - | | -73 | | 1 | | | | | | | | | | | |
| 8. | | | | | | | | | | | | | | | | | | |
| 9. | | | | | | | | | | | | | | | | | | |
| 10. | | | | | | | | | | | | | | | | | | |
| | SAMPLE CUSTODY MUST BE DOC | UMENTED | BEL | .OW | EACH TI | ME SAMPL | ES C | HANGE | POSS | ESSIO | N INCL | UDING | COUR | IER DE | LIVER | Y | | - 12 20 |
| RELINQUISHED BY RELINQUISHED BY RELINGUISHED BY RELINGUISHED BY | SAMPLER: DATE/TIME: 2. | BY: Conditions of bottles or coolers at receipt: COMPLIANT NON COMPLIANT COOLER TEMP Comments: | | | | | | _°C | | | | | | | | | | |
| 11/2 | 2.25-25 3. | | | | Page | of | | CLIENT | | Hand De | envered | Q 0 | n ier | | | | | t Complete NO |



Laboratory Certification

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

QA Control Code: A2070148