

Cover Page

Order ID : Q1609

Project ID : 540 Degraw St, Brooklyn, NY - E9309

Client : ENTACT

Lab Sample Number

Q1609-01
Q1609-02
Q1609-03
Q1609-04

Client Sample Number

WC-SCRN-01-G
WC-SCRN-01-C
WC-SCRN-01-C
WC-SCRN-01-C

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

Signature : _____

Date: 3/25/2025

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

DATA REPORTING QUALIFIERS- INORGANIC

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

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

APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: Q1609

Completed

For thorough review, the report must have the following:

GENERAL:

Are all original paperwork present (chain of custody, record of communication,airbill, sample management lab chronicle, login page)

✓

Check chain-of-custody for proper relinquish/return of samples

✓

Is the chain of custody signed and complete

✓

Check internal chain-of-custody for proper relinquish/return of samples /sample extracts

✓

Collect information for each project id from server. Were all requirements followed

✓

COVER PAGE:

Do numbers of samples correspond to the number of samples in the Chain of Custody on login page

✓

Do lab numbers and client Ids on cover page agree with the Chain of Custody

✓

CHAIN OF CUSTODY:

Do requested analyses on Chain of Custody agree with form I results

✓

Do requested analyses on Chain of Custody agree with the log-in page

✓

Were the correct method log-in for analysis according to the Analytical Request and Chain of Castody

✓

Were the samples received within hold time

✓

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

✓

ANALYTICAL:

Was method requirement followed?

✓

Was client requirement followed?

✓

Does the case narrative summarize all QC failure?

✓

All runlogs and manual integration are reviewed for requirements

✓

All manual calculations and /or hand notations verified

✓

QA Review Signature: MAHESH PATEL

Date: 03/25/2025

LAB CHRONICLE

OrderID:	Q1609	OrderDate:	3/20/2025 10:20:00 AM
Client:	ENTACT	Project:	540 Degraw St, Brooklyn, NY - E9309
Contact:	Jarod Stanfield	Location:	I51

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q1609-02	WC-SCRN-01-C	SOIL			03/19/25 13:30			03/20/25
			Oil and Grease	9071B			03/25/25 09:30	
			Paint Filter	9095B			03/24/25 09:15	
			pH	9045D			03/20/25 17:00	
			TS	SM2540 B			03/20/25 11:00	
			TVS	160.4			03/20/25 16:00	
Q1609-03	WC-SCRN-01-C	SOIL			03/19/25 13:30			03/20/25
			Corrosivity	9045D			03/20/25 17:00	
			Ignitability	1030			03/24/25 17:02	
			Reactive Cyanide	9012B		03/20/25	03/20/25 16:32	
			Reactive Sulfide	9034		03/21/25	03/21/25 13:00	
Q1609-04	WC-SCRN-01-C	WATER			03/19/25 13:30			03/20/25
			ASTM Ammonia	SM4500-NH3		03/24/25	03/26/25 09:23	
			ASTM COD	SM5220 D			03/24/25 17:07	
			ASTM Oil and Grease	1664A			03/24/25 11:10	

LAB CHRONICLE

ASTM TS

SM2540 B

03/24/25
12:00



SAMPLE DATA

Report of Analysis

Client:	ENTACT	Date Collected:	03/19/25 13:30
Project:	540 Degraw St, Brooklyn, NY - E9309	Date Received:	03/20/25
Client Sample ID:	WC-SCRN-01-C	SDG No.:	Q1609
Lab Sample ID:	Q1609-02	Matrix:	SOIL
		% Solid:	91.8

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.
Oil and Grease	272		1	6.32	27.2	mg/Kg		03/25/25 09:30	SW9071B
Paint Filter	1.00	U	1	1.00	1.00	ml/100gm		03/24/25 09:15	9095B
pH	8.85	H	1	0	0	pH		03/20/25 17:00	9045D
TS	92.3		1	1.00	5.00	%		03/20/25 11:00	SM 2540 B-15
TVS	20.2		1	1.00	10.0	%		03/20/25 16:00	160.4

Comments: pH result reported at temperature 23.4 °C

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

D = Dilution

Q = indicates LCS control criteria did not meet requirements

H = Sample Analysis Out Of Hold Time

J = Estimated Value

B = Analyte Found in Associated Method Blank

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

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

OR = Over Range

N =Spiked sample recovery not within control limits

Report of Analysis

Client:	ENTACT	Date Collected:	03/19/25 13:30
Project:	540 Degraw St, Brooklyn, NY - E9309	Date Received:	03/20/25
Client Sample ID:	WC-SCRN-01-C	SDG No.:	Q1609
Lab Sample ID:	Q1609-03	Matrix:	SOIL
		% Solid:	100

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Corrosivity	8.85	H	1	0	0	pH		03/20/25 17:00	9045D
Ignitability	NO		1	0	0	oC		03/24/25 17:02	1030
Reactive Cyanide	0.0084	U	1	0.0084	0.050	mg/Kg	03/20/25 14:10	03/20/25 16:32	9012B
Reactive Sulfide	1.59	J	1	0.20	10.0	mg/Kg	03/21/25 10:10	03/21/25 13:00	9034

Comments: pH result reported at temperature 23.4 °C

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

D = Dilution

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H = Sample Analysis Out Of Hold Time

J = Estimated Value

B = Analyte Found in Associated Method Blank

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

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

OR = Over Range

N =Spiked sample recovery not within control limits

Report of Analysis

Client:	ENTACT	Date Collected:	03/19/25 13:30
Project:	540 Degraw St, Brooklyn, NY - E9309	Date Received:	03/20/25
Client Sample ID:	WC-SCRN-01-C	SDG No.:	Q1609
Lab Sample ID:	Q1609-04	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
ASTM Ammonia	0.030	U	1	0.030	0.10	mg/L	03/24/25 12:00	03/26/25 09:23	SM 4500-NH3 B plus NH3 G-11
ASTM COD	17.7		1	1.50	10.0	mg/L		03/24/25 17:07	SM 5220 D-11
ASTM Oil and Grease	0.30	J	1	0.29	5.00	mg/L		03/24/25 11:10	SW1664A
ASTM TS	20.0		1	1.00	5.00	mg/L		03/24/25 12:00	SM 2540 B-15

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

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

OR = Over Range

N = Spiked sample recovery not within control limits



QC RESULT SUMMARY



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

Initial and Continuing Calibration Verification

Client: ENTACT

SDG No.: Q1609

Project: 540 Degraw St, Brooklyn, NY - E9309

RunNo.: LB135115

Analyte		Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID: Corrosivity	ICV	pH	7.00	7	100	90-110	03/20/2025
Sample ID: Corrosivity	CCV1	pH	2.01	2.00	101	90-110	03/20/2025
Sample ID: Corrosivity	CCV2	pH	12.02	12.00	100	90-110	03/20/2025
Sample ID: Corrosivity	CCV3	pH	2.02	2.00	101	90-110	03/20/2025

Initial and Continuing Calibration Verification

Client: ENTACT

SDG No.: Q1609

Project: 540 Degraw St, Brooklyn, NY - E9309

RunNo.: LB135116

Analyte		Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID:	ICV						
pH		pH	7.00	7	100	90-110	03/20/2025
Sample ID:	CCV1						
pH		pH	2.01	2.00	101	90-110	03/20/2025
Sample ID:	CCV2						
pH		pH	12.02	12.00	100	90-110	03/21/2025

Initial and Continuing Calibration Verification

Client: ENTACT

SDG No.: Q1609

Project: 540 Degraw St, Brooklyn, NY - E9309

RunNo.: LB135117

Analyte	Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID: ICV1 Reactive Cyanide	mg/L	0.093	0.099	94	85-115	03/20/2025
Sample ID: CCV1 Reactive Cyanide	mg/L	0.24	0.25	96	90-110	03/20/2025
Sample ID: CCV2 Reactive Cyanide	mg/L	0.23	0.25	92	90-110	03/20/2025
Sample ID: CCV3 Reactive Cyanide	mg/L	0.25	0.25	100	90-110	03/20/2025

Initial and Continuing Calibration Verification

Client: ENTACT

SDG No.: Q1609

Project: 540 Degraw St, Brooklyn, NY - E9309

RunNo.: LB135160

Analyte	Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID: ICV ASTM COD	mg/L	49.329	50	99	95-105	01/22/2025
Sample ID: CCV1 ASTM COD	mg/L	49.329	50	99	95-105	03/24/2025
Sample ID: CCV2 ASTM COD	mg/L	49.329	50	99	95-105	03/24/2025

Initial and Continuing Calibration Verification

Client: ENTACT

SDG No.: Q1609

Project: 540 Degraw St, Brooklyn, NY - E9309

RunNo.: LB135188

Analyte	Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID: ICV1 ASTM Ammonia	mg/L	0.99	1	99	90-110	03/26/2025
Sample ID: CCV1 ASTM Ammonia	mg/L	0.97	1	97	90-110	03/26/2025
Sample ID: CCV2 ASTM Ammonia	mg/L	0.97	1	97	90-110	03/26/2025

Initial and Continuing Calibration Verification

Client: ENTACT

SDG No.: Q1609

Project: 540 Degraw St, Brooklyn, NY - E9309

RunNo.: LB135188

Analyte	Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
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Initial and Continuing Calibration Blank Summary

Client: ENTACT

SDG No.: Q1609

Project: 540 Degraw St, Brooklyn, NY - E9309

RunNo.: LB135117

Analyte	Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID: ICB1 Reactive Cyanide	mg/L	< 0.0025	0.0025	U	0.00096	0.005	03/20/2025
Sample ID: CCB1 Reactive Cyanide	mg/L	< 0.0025	0.0025	U	0.00096	0.005	03/20/2025
Sample ID: CCB2 Reactive Cyanide	mg/L	< 0.0025	0.0025	U	0.00096	0.005	03/20/2025
Sample ID: CCB3 Reactive Cyanide	mg/L	< 0.0025	0.0025	U	0.00096	0.005	03/20/2025

Initial and Continuing Calibration Blank Summary

Client: ENTACT

SDG No.: Q1609

Project: 540 Degraw St, Brooklyn, NY - E9309

RunNo.: LB135160

Analyte	Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID: ICB ASTM COD	mg/L	< 5.0000	5.0000	U	1.50	10	01/22/2025
Sample ID: CCB1 ASTM COD	mg/L	< 5.0000	5.0000	U	1.50	10	03/24/2025
Sample ID: CCB2 ASTM COD	mg/L	< 5.0000	5.0000	U	1.50	10	03/24/2025

Initial and Continuing Calibration Blank Summary

Client: ENTACT

SDG No.: Q1609

Project: 540 Degraw St, Brooklyn, NY - E9309

RunNo.: LB135188

Analyte	Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID: ICB1 ASTM Ammonia	mg/L	< 0.0500	0.0500	U	0.030	0.1	03/26/2025
Sample ID: CCB1 ASTM Ammonia	mg/L	< 0.0500	0.0500	U	0.030	0.1	03/26/2025
Sample ID: CCB2 ASTM Ammonia	mg/L	< 0.0500	0.0500	U	0.030	0.1	03/26/2025

Initial and Continuing Calibration Blank Summary

Client: ENTACT

SDG No.: Q1609

Project: 540 Degraw St, Brooklyn, NY - E9309

RunNo.: LB135188

Analyte	Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
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Preparation Blank Summary

Client: ENTACT

SDG No.: Q1609

Project: 540 Degraw St, Brooklyn, NY - E9309

Analyte	Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID: LB135108BL TS	%	< 2.5000	2.5000	U	1	5	03/20/2025
Sample ID: LB135109BL TVS	%	< 5.0000	5.0000	U	1	10	03/20/2025
Sample ID: LB135147BL ASTM TS	mg/L	< 2.5000	2.5000	U	1	5	03/24/2025
Sample ID: LB135150BL ASTM Oil and Grease	mg/L	< 2.5000	2.5000	U	0.29	5.0	03/24/2025
Sample ID: LB135160BL ASTM COD	mg/L	< 5.0000	5.0000	U	1.5	10.0	03/24/2025
Sample ID: LB135168BL Oil and Grease	mg/Kg	< 12.5000	12.5000	U	5.8	25	03/25/2025
Sample ID: PB167221BL Reactive Sulfide	mg/Kg	< 5.0000	5.0000	U	0.201	10	03/21/2025
Sample ID: PB167241BL Reactive Cyanide	mg/Kg	0.0092	0.0250	J	0.0084	0.05	03/20/2025
Sample ID: PB167282BL ASTM Ammonia	mg/L	< 0.0500	0.0500	U	0.03	0.1	03/26/2025
Sample ID: PB167282TB ASTM Ammonia	mg/L	< 0.0500	0.0500	U	0.03	0.1	03/26/2025

Matrix Spike Summary

Client:	ENTACT	SDG No.:	Q1609
Project:	540 Degraw St, Brooklyn, NY - E9309	Sample ID:	Q1609-04
Client ID:	WC-SCRN-01-CMS	Percent Solids for Spike Sample:	0

Analyte	Units	Acceptance Limit %R	Spiked Result	Conc. Qualifier	Sample Result	Conc. Qualifier	Spike Added	Dilution Factor	% Rec	Qual	Analysis Date
ASTM COD	mg/L	75-125	57.2		17.7		50.0	1	79		03/24/2025
ASTM Ammonia	mg/L	75-125	0.98		0.030	U	1	1	98		03/26/2025
ASTM Oil and Grease	mg/L	78-114	20.4		0.30	J	20.0	1	101		03/24/2025

Matrix Spike Summary

Client:	ENTACT	SDG No.:	Q1609
Project:	540 Degraw St, Brooklyn, NY - E9309	Sample ID:	Q1609-04
Client ID:	WC-SCRN-01-CMSD	Percent Solids for Spike Sample:	0

Analyte	Units	Acceptance Limit %R	Spiked Result	Conc. Qualifier	Sample Result	Conc. Qualifier	Spike Added	Dilution Factor	% Rec	Qual	Analysis Date
ASTM COD	mg/L	75-125	59.2		17.7		50.0	1	83		03/24/2025
ASTM Ammonia	mg/L	75-125	0.99		0.030	U	1	1	99		03/26/2025
ASTM Oil and Grease	mg/L	78-114	20.6		0.30	J	20.0	1	102		03/24/2025

Matrix Spike Summary

Client:	ENTACT	SDG No.:	Q1609
Project:	540 Degraw St, Brooklyn, NY - E9309	Sample ID:	Q1632-01
Client ID:	PIER-1-2MS	Percent Solids for Spike Sample:	95.4

Analyte	Units	Acceptance Limit %R	Spiked Result	Conc. Qualifier	Sample Result	Conc. Qualifier	Spike Added	Dilution Factor	% Rec	Qual	Analysis Date
Oil and Grease	mg/Kg	75-125	36.6		20.9	J	105	1	15	*	03/25/2025

Matrix Spike Summary

Client:	ENTACT	SDG No.:	Q1609
Project:	540 Degraw St, Brooklyn, NY - E9309	Sample ID:	Q1632-01
Client ID:	PIER-1-2MSD	Percent Solids for Spike Sample:	95.4

Analyte	Units	Acceptance Limit %R	Spiked Result	Conc. Qualifier	Sample Result	Conc. Qualifier	Spike Added	Dilution Factor	% Rec	Qual	Analysis Date
Oil and Grease	mg/Kg	75-125	52.3		20.9	J	105	1	30	*	03/25/2025

Duplicate Sample Summary

Client:	ENTACT	SDG No.:	Q1609
Project:	540 Degraw St, Brooklyn, NY - E9309	Sample ID:	Q1590-01
Client ID:	3794DUP	Percent Solids for Spike Sample:	100

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/ AD	Qual	Analysis Date
Reactive Cyanide	mg/Kg	+/-20	0.0083	U	0.0084	U	1	0		03/20/2025

Duplicate Sample Summary

Client: ENTACT Project: 540 Degraw St, Brooklyn, NY - E9309 Client ID: OILY-DEBRIS-COMPDUP	SDG No.: Q1609 Sample ID: Q1592-02 Percent Solids for Spike Sample: 100
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Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/ AD	Qual	Analysis Date
Reactive Sulfide	mg/Kg	+/-20	1.58	J	1.58	J	1	0		03/21/2025

Duplicate Sample Summary

Client: ENTACT Project: 540 Degraw St, Brooklyn, NY - E9309 Client ID: CHRT24743DUP	SDG No.: Q1609 Sample ID: Q1606-01 Percent Solids for Spike Sample: 90.4
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Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/AD	Qual	Analysis Date
Paint Filter	ml/100gm	+/-20	1.00	U	1.00	U	1	0		03/24/2025
Ignitability	oC	+/-20	NO		NO		1	0		03/24/2025

Duplicate Sample Summary

Client: ENTACT	SDG No.: Q1609
Project: 540 Degraw St, Brooklyn, NY - E9309	Sample ID: Q1609-02
Client ID: WC-SCRN-01-CDUP	Percent Solids for Spike Sample: 100

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/AD	Qual	Analysis Date
TS	%	+/-5	92.3		92.7		1	0.43		03/20/2025
TVS	%	+/-5	20.2		19.3		1	4.56		03/20/2025
pH	pH	+/-20	8.85		8.86		1	0.11		03/20/2025

Duplicate Sample Summary

Client: ENTACT Project: 540 Degraw St, Brooklyn, NY - E9309 Client ID: WC-SCRN-01-CDUP	SDG No.: Q1609 Sample ID: Q1609-03 Percent Solids for Spike Sample: 100
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Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/ AD	Qual	Analysis Date
Corrosivity	pH	+/-20	8.85		8.86		1	0.11		03/20/2025

Duplicate Sample Summary

Client: ENTACT Project: 540 Degraw St, Brooklyn, NY - E9309 Client ID: WC-SCRN-01-CDUP	SDG No.: Q1609 Sample ID: Q1609-04 Percent Solids for Spike Sample: 0
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Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/AD	Qual	Analysis Date
ASTM TS	mg/L	+/-5	20.0		20.0		1	0		03/24/2025
ASTM Oil and Grease	mg/L	+/-18	0.30	J	0.30	J	1	0		03/24/2025
ASTM COD	mg/L	+/-20	17.7		18.6		1	4.96		03/24/2025
ASTM Ammonia	mg/L	+/-20	0.030	U	0.030	U	1	0		03/26/2025

Duplicate Sample Summary

Client: ENTACT	SDG No.: Q1609
Project: 540 Degraw St, Brooklyn, NY - E9309	Sample ID: Q1609-04
Client ID: WC-SCRN-01-CMSD	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
ASTM Oil and Grease	mg/L	+/-18	20.4		20.6		1	0.98		03/24/2025
ASTM COD	mg/L	+/-20	57.2		59.2		1	3.44		03/24/2025
ASTM Ammonia	mg/L	+/-20	0.98		0.99		1	1		03/26/2025

Duplicate Sample Summary

Client: ENTACT Project: 540 Degraw St, Brooklyn, NY - E9309 Client ID: PIER-1-2DUP	SDG No.: Q1609 Sample ID: Q1632-01 Percent Solids for Spike Sample: 95.4
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Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/ AD	Qual	Analysis Date
Oil and Grease	mg/Kg	+/-20	20.9	J	20.9	J	1	0.05		03/25/2025

Duplicate Sample Summary

Client:	ENTACT	SDG No.:	Q1609
Project:	540 Degraw St, Brooklyn, NY - E9309	Sample ID:	Q1632-01
Client ID:	PIER-1-2MSD	Percent Solids for Spike Sample:	95.4

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/ AD	Qual	Analysis Date
Oil and Grease	mg/Kg	+/-20	36.6		52.3		1	35.3	*	03/25/2025

Laboratory Control Sample Summary

Client: ENTACT

SDG No.: Q1609

Project: 540 Degraw St, Brooklyn, NY - E9309

Run No.: LB135150

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID	LB135150BS							
ASTM Oil and Grease	mg/L	20.0	16.7		84	1	78-114	03/24/2025

Laboratory Control Sample Summary

Client: ENTACT

SDG No.: Q1609

Project: 540 Degraw St, Brooklyn, NY - E9309

Run No.: LB135160

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID	LB135160BS							
ASTM COD	mg/L	50	50.3		101	1	90-110	03/24/2025

Laboratory Control Sample Summary

Client: ENTACT

SDG No.: Q1609

Project: 540 Degraw St, Brooklyn, NY - E9309

Run No.: LB135168

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID	LB135168BS							
Oil and Grease	mg/Kg	100	94.9		95	1	80-120	03/25/2025

Laboratory Control Sample Summary

Client: ENTACT

SDG No.: Q1609

Project: 540 Degraw St, Brooklyn, NY - E9309

Run No.: LB135188

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID	PB167282BS							
ASTM Ammonia	mg/L	1	1.00		100	1	90-110	03/26/2025



RAW DATA

TOTAL SOLIDS - SM2540B

SUPERVISOR: Iwona

ANALYST: jignesh

Date: 03/20/2025

Run Number: LB135108

BalanceID: WC SC-6

OvenID: WC OVEN-1

ThermometerID: WET OVEN#1

TEMP1 IN: 103 °C 03/20/2025 11:00 TEMP1 OUT: 103 °C 03/20/2025 12:00
 TEMP2 IN: 104 °C 03/20/2025 12:30 TEMP2 OUT: 103 °C 03/20/2025 13:30
 TEMP3 IN: 104 °C 03/20/2025 16:00 TEMP3 OUT: 103 °C 03/21/2025 08:00
 TEMP4 IN: 104 °C 03/21/2025 08:30 TEMP4 OUT: 103 °C 03/21/2025 10:00

Dish #	Lab ID	Client ID	Empty Dish Weight (g)	Final Empty Dish Weight (g)	Dish + Sample Weight (g)	Original weight 1st Dish+Sample weight after Drying @103-@105°C (g)	Constant weight 2nd Dish+Sample weight after Drying @103-@105°C (g)	Final Constant weight Final Dish+Sample weight after Drying @103-@105°C (g)	Weight (g)	Result %
1	LB135108BL	LB135108BL	65.3035	65.3035	65.3035	65.3035	65.3035	65.3035	0.0000	0
2	Q1609-02	WC-SCRN-01-C	59.3953	59.3953	80.9226	79.2571	79.2571	79.2571	19.8618	92.3
3	Q1609-02DUP	WC-SCRN-01-CDUP	55.8888	55.8888	77.8051	76.2129	76.2129	76.2129	20.3241	92.7

A = Final Empty Dish Weight (g)

B = Dish + Sample Weight (g)

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

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

WORKLIST(Hardcopy Internal Chain)

WorkList Name : ts q1609

WorkList ID : 188413

Department : Wet-Chemistry

Date : 03-20-2025 14:14:29

W3 135108

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1609-02	WC-SCRN-01-C	Solid	TS	Cool 4 deg C	ENTA05	I51	03/19/2025	SM2540 B

Date/Time 03/20/25 14:30

Raw Sample Received by: [Signature]

Raw Sample Relinquished by: [Signature]

Date/Time 03/20/25

Raw Sample Received by: [Signature]

Raw Sample Relinquished by: [Signature]

TOTAL VOLATILE SOLIDS 160.4

TEMP1 IN: 104 °C 03/20/2025 16:00 **TEMP1 OUT:** 103 °C 03/21/2025 08:00
TEMP2 IN: 104 °C 03/21/2025 08:30 **TEMP2 OUT:** 103 °C 03/21/2025 10:00
TEMP3 IN: 550 °C 03/21/2025 10:30 **TEMP3 OUT:** 540 °C 03/21/2025 12:00
TEMP4 IN: 550 °C 03/21/2025 12:30 **TEMP4 OUT:** 550 °C 03/21/2025 14:00

Run Number: LB135109

SUPERVISOR: Iwona

ANALYST: jignesh

BalanceID: WC SC-6

OvenID: WC OVEN-1

Dish #	Lab ID	Empty Dish Weight (g)	Final Empty Dish Weight (g)	Empty Dish + Sample Weight (g)	1st Dish + SampleWt Drying @103-@105°C (g)	Final Dish + SampleWt Drying @103-@105°C (g)	Dish + Samplewt Drying @550 (±50) °C (g)	Final Dish + Samplewt Drying @550 (±50) °C (g)	Weight Diff (g)	Result (%)
1	LB135109BL	65.3035	65.3035	65.3035	65.3035	65.3035	65.3035	65.3035	0.0000	0
2	Q1609-02	59.3953	59.3953	80.9226	79.2571	79.2571	75.2448	75.2448	4.0123	20.2
3	Q1609-02DUP	55.8888	55.8888	77.8051	76.2129	76.2129	72.2904	72.2904	3.9225	19.3

A = Sample Weight (g)
B = Final Dish + Samplewt Drying @550 (±50) °C (g)
C = Final Dish + SampleWt Drying @103-@105 °C (g)
D = Weight (g)
E = Final Empty Dish Weight (g)
F = Final Dish + SampleWt Drying @103-@105 °C (g)

Weight D = C - B

Result % = $\frac{D}{F - E} \star 100$

WORKLIST(Hardcopy Internal Chain)

LB135109

WorkList Name : tvs s q1609

WorkList ID : 188414

Department : Wet-Chemistry

Date : 03-20-2025 14:15:25

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1609-02	WC-SCRN-01-C	Solid	TVS	Cool 4 deg C	ENTA05	I51	03/19/2025	160.4

Date/Time 03/20/25 14:30

Raw Sample Received by: [Signature]

Raw Sample Relinquished by: [Signature]

Date/Time 03/20/25

Raw Sample Received by: [Signature]

Raw Sample Relinquished by: [Signature]

78 16:3

18:30

[Signature]

[Signature]

Analytical Summary Report

Analysis Method: 9045D

Analyst By : jignesh

Parameter: Corrosivity

Supervisor Review By : Iwona

Run Number: LB135115

Slope : 99.2

BalanceID: WC SC-7

pH Meter ID : WC PH METER-1

Calibration Standards	Chemtech Log#
PH 4 BUFFER SOLUTION	W3107
BUFFER PH 7.00 GREEN 1PINT PK6	W3093
PH 10.01 BUFFER, COLOR CD 475ML	W3094
buffer solution pH 7 yellow	W3071
Buffer Solution, PH2 (500ml)	W3161
Buffer Solution, PH12 (500ml)	W3072

True Value of ICV = 7.00 Control Limits[+/- 0.1].

True Value of CCV1 = 2.00 Control Limits[+/- 0.1].

True Value of CCV2 = 12.00 Control Limits[+/- 0.1].

True Value of CCV3 = 2.00 Control Limits[+/- 0.1].

Seq	LabID	DF	Matrix	Weight (gm)	Volume (ml)	Temperature (°C)	Result (pH)	Anal Date	Anal Time
1	CAL1	1	Water	NA	NA	20.3	4.01	03/20/2025	16:14
2	CAL2	1	Water	NA	NA	20.2	7.01	03/20/2025	16:15
3	CAL3	1	Water	NA	NA	20.2	10.02	03/20/2025	16:20
4	ICV	1	Water	NA	NA	20.2	7.00	03/20/2025	16:22
5	CCV1	1	Water	NA	NA	20.1	2.01	03/20/2025	16:25
6	Q1605-02	1	Solid	20.02	20	23.4	6.86	03/20/2025	16:30
7	Q1606-02	1	Solid	20.03	20	23.2	7.58	03/20/2025	16:35
8	Q1606-04	1	Solid	20.04	20	24.5	7.03	03/20/2025	16:37
9	Q1606-06	1	Solid	20.03	20	23.7	8.73	03/20/2025	16:40
10	Q1606-08	1	Solid	20.02	20	22.7	8.08	03/20/2025	16:47
11	Q1606-10	1	Solid	20.03	20	24.2	8.21	03/20/2025	16:50
12	Q1609-03	1	Solid	20.02	20	23.4	8.85	03/20/2025	17:00
13	Q1609-03DUP	1	Solid	20.03	20	23.5	8.86	03/20/2025	17:01
14	Q1610-03	1	Solid	20.04	20	23.6	6.67	03/20/2025	17:05
15	Q1619-06	1	Solid	20.02	20	22.2	9.45	03/20/2025	17:10
16	CCV2	1	Water	NA	NA	20.3	12.02	03/20/2025	17:11
17	Q1619-08	1	Solid	20.03	20	23.6	7.84	03/20/2025	17:15
18	Q1619-10	1	Solid	20.05	20	23.1	9.68	03/20/2025	17:20
19	Q1619-12	1	Solid	20.02	20	22.5	8.53	03/20/2025	17:24
20	Q1619-14	1	Solid	20.04	20	24.8	8.58	03/20/2025	17:25

Seq	LabID	DF	Matrix	Weight (gm)	Volume (ml)	Temperature (°C)	Result (pH)	Anal Date	An
21	CCV3	1	Water	NA	NA	20.2	2.02	03/20/2025	17:30

WORKLIST(Hardcopy Internal Chain)

W135115

WorkList Name : corrosion p1609

WorkList ID : 188409

Department : Wet-Chemistry

Date : 03-20-2025 13:09:27

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1605-02	DRUM-SOIL-CUTTING	Solid	Corrosivity	Cool 4 deg C	PSEG03	I31	03/19/2025	9045D
Q1606-02	CHRT24743	Solid	Corrosivity	Cool 4 deg C	PSEG03	I41	03/19/2025	9045D
Q1606-04	RBR251346	Solid	Corrosivity	Cool 4 deg C	PSEG03	I41	03/19/2025	9045D
Q1606-06	RT4534	Solid	Corrosivity	Cool 4 deg C	PSEG03	I41	03/19/2025	9045D
Q1606-08	RT3025	Solid	Corrosivity	Cool 4 deg C	PSEG03	I41	03/19/2025	9045D
Q1606-10	CHRT28607	Solid	Corrosivity	Cool 4 deg C	PSEG03	I41	03/19/2025	9045D
Q1609-03	WC-SCRN-01-C	Solid	Corrosivity	Cool 4 deg C	PSEG03	I41	03/19/2025	9045D
Q1610-03	SOIL-PILE	Solid	Corrosivity	Cool 4 deg C	ENTA05	I51	03/19/2025	9045D
Q1619-06	TP-1	Solid	Corrosivity	Cool 4 deg C	PSEG03	I41	03/20/2025	9045D
Q1619-08	TP-2	Solid	Corrosivity	Cool 4 deg C	PSEG03	I41	03/20/2025	9045D
Q1619-10	TP-3	Solid	Corrosivity	Cool 4 deg C	PSEG03	I41	03/20/2025	9045D
Q1619-12	TP-4	Solid	Corrosivity	Cool 4 deg C	PSEG03	I41	03/20/2025	9045D
Q1619-14	TP-5	Solid	Corrosivity	Cool 4 deg C	PSEG03	I41	03/20/2025	9045D

Date/Time 03/20/25 16:10

Raw Sample Received by: SO CO/C

Raw Sample Relinquished by: SO CO/C

Date/Time 03/20/25

Raw Sample Received by: SO CO/C

Raw Sample Relinquished by: SO CO/C

Analytical Summary Report

Analysis Method: 9045D

Analyst By : jignesh

Parameter: pH

Supervisor Review By : Iwona

Run Number: LB135116

Slope : 99.2

BalanceID: WC SC-7

pH Meter ID : WC PH METER-1

Calibration Standards	Chemtech Log#
PH 4 BUFFER SOLUTION	W3107
BUFFER PH 7.00 GREEN 1PINT PK6	W3093
PH 10.01 BUFFER, COLOR CD 475ML	W3094
buffer solution pH 7 yellow	W3071
Buffer Solution, PH2 (500ml)	W3161
Buffer Solution, PH12 (500ml)	W3072

True Value of ICV = 7.00 Control Limits[+/- 0.1].

True Value of CCV1 = 2.00 Control Limits[+/- 0.1].

True Value of CCV2 = 12.00 Control Limits[+/- 0.1].

Seq	LabID	DF	Matrix	Weight (gm)	Volume (ml)	Temperature (°C)	Result (pH)	Anal Date	Anal Time
1	CAL1	1	Water	NA	NA	20.3	4.01	03/20/2025	16:14
2	CAL2	1	Water	NA	NA	20.2	7.01	03/20/2025	16:15
3	CAL3	1	Water	NA	NA	20.3	10.02	03/20/2025	16:20
4	ICV	1	Water	NA	NA	20.2	7.00	03/20/2025	16:22
5	CCV1	1	Water	NA	NA	20.1	2.01	03/20/2025	16:25
6	Q1609-02	1	Solid	20.02	20	23.4	8.85	03/20/2025	17:00
7	Q1609-02DUP	1	Solid	20.03	20	23.5	8.86	03/20/2025	17:01
8	CCV2	1	Water	NA	NA	20.3	12.02	03/21/2025	17:11

WORKLIST(Hardcopy Internal Chain)

VB 135116

WorkList Name : ph s q1609

WorkList ID : 188410

Department : Wet-Chemistry

Date : 03-20-2025 13:09:55

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1609-02	WC-SCRN-01-C	Solid	pH	Cool 4 deg C	ENTA05	I51	03/19/2025	9045D

Date/Time 03/20/25 16:00

Raw Sample Received by: [Signature]

Raw Sample Relinquished by: [Signature]

Date/Time 03/20/25 18:00

Raw Sample Received by: [Signature]

Raw Sample Relinquished by: [Signature]

Test results

Aquakem 7.2AQ1

Page: 1

CHEMTECH CONSULTING GROUP INC
284 Sheffield Street, Mountainside, NJ 07092

3/20/2025 16:38

Reviewed by : NF Instrument ID : Konelab

Test: Total CN

Sample Id	Result	Dil. 1 +	Response	Errors
ICV1	92.654	0.0	0.081	
ICB1	0.267	0.0	0.001	
CCV1	236.257	0.0	0.206	
CCB1	0.775	0.0	0.001	
PB167241BL	0.917	0.0	0.001	
Q1590-01	-1.755	0.0	-0.001	
Q1590-01DUP	-0.227	0.0	0.000	
Q1592-02	-0.133	0.0	0.000	
Q1597-02	-0.047	0.0	0.000	
Q1597-04	-0.067	0.0	0.000	
Q1597-06	-0.175	0.0	0.000	
Q1605-02	-0.016	0.0	0.000	
Q1606-02	0.039	0.0	0.000	
Q1606-04	0.246	0.0	0.001	
CCV2	227.084	0.0	0.198	
CCB2	-0.215	0.0	0.000	
Q1606-06	-0.015	0.0	0.000	
Q1606-08	0.147	0.0	0.000	
Q1606-10	-0.059	0.0	0.000	
Q1609-03	0.286	0.0	0.001	
Q1610-03	0.053	0.0	0.000	
PB167242BL	0.246	0.0	0.001	
Q1590-04	0.117	0.0	0.000	
Q1590-04DUP	0.191	0.0	0.001	
Q1604-02	0.009	0.0	0.000	
Q1606-11	-0.093	0.0	0.000	
CCV3	251.591	0.0	0.219	
CCB3	0.862	0.0	0.001	
N	28			
Mean	28.891			
SD	75.9879			
CV%	263.02			

Aquakem v. 7.2AQ1

Results from time period:

Thu Mar 20 14:56:03 2025

Thu Mar 20 16:36:34 2025

Sample Id	Sam/Ctr/c/	Test short r	Test type	Result	Result unit	Result date and time	Stat
0.0PPBCN	A	Total CN	P	-0.045	µg/l	3/20/2025 15:47:09	
5.0PPBCN	A	Total CN	P	4.8007	µg/l	3/20/2025 15:47:10	
10PPBCN	A	Total CN	P	9.2636	µg/l	3/20/2025 15:47:11	
50PPBCN	A	Total CN	P	47.2769	µg/l	3/20/2025 15:47:12	
100PPBCN	A	Total CN	P	98.8277	µg/l	3/20/2025 15:47:13	
250PPBCN	A	Total CN	P	258.7053	µg/l	3/20/2025 15:47:14	
500PPBCN	A	Total CN	P	496.1708	µg/l	3/20/2025 15:47:15	
ICV1	S	Total CN	P	92.6536	µg/l	3/20/2025 16:17:06	
ICB1	S	Total CN	P	0.2675	µg/l	3/20/2025 16:17:07	
CCV1	S	Total CN	P	236.2574	µg/l	3/20/2025 16:17:10	
CCB1	S	Total CN	P	0.7748	µg/l	3/20/2025 16:17:12	
PB167241BL	S	Total CN	P	0.9168	µg/l	3/20/2025 16:17:13	
Q1590-01	S	Total CN	P	-1.7551	µg/l	3/20/2025 16:17:15	
Q1590-01DUP	S	Total CN	P	-0.227	µg/l	3/20/2025 16:24:39	
Q1592-02	S	Total CN	P	-0.1326	µg/l	3/20/2025 16:24:40	
Q1597-02	S	Total CN	P	-0.0472	µg/l	3/20/2025 16:24:41	
Q1597-04	S	Total CN	P	-0.067	µg/l	3/20/2025 16:24:42	
Q1597-06	S	Total CN	P	-0.1746	µg/l	3/20/2025 16:24:43	
Q1605-02	S	Total CN	P	-0.0165	µg/l	3/20/2025 16:24:44	
Q1606-02	S	Total CN	P	0.0395	µg/l	3/20/2025 16:24:45	
Q1606-04	S	Total CN	P	0.2461	µg/l	3/20/2025 16:24:46	
CCV2	S	Total CN	P	227.0839	µg/l	3/20/2025 16:24:49	
CCB2	S	Total CN	P	-0.2147	µg/l	3/20/2025 16:32:12	
Q1606-06	S	Total CN	P	-0.0147	µg/l	3/20/2025 16:32:13	
Q1606-08	S	Total CN	P	0.1469	µg/l	3/20/2025 16:32:14	
Q1606-10	S	Total CN	P	-0.0595	µg/l	3/20/2025 16:32:15	
Q1609-03	S	Total CN	P	0.2857	µg/l	3/20/2025 16:32:16	
Q1610-03	S	Total CN	P	0.0528	µg/l	3/20/2025 16:32:17	
PB167242BL	S	Total CN	P	0.2457	µg/l	3/20/2025 16:32:18	
Q1590-04	S	Total CN	P	0.1167	µg/l	3/20/2025 16:32:19	
Q1590-04DUP	S	Total CN	P	0.1906	µg/l	3/20/2025 16:32:20	
Q1604-02	S	Total CN	P	0.0086	µg/l	3/20/2025 16:32:21	
Q1606-11	S	Total CN	P	-0.0927	µg/l	3/20/2025 16:32:22	
CCV3	S	Total CN	P	251.5909	µg/l	3/20/2025 16:36:33	
CCB3	S	Total CN	P	0.862	µg/l	3/20/2025 16:36:34	

Calibration results

Aquakem 7.2AQ1

Page:

CHEMTECH CONSULTING GROUP INC

284 Sheffield Street, Mountainside, NJ 07092

Reviewed by : NF

Instrument ID : Konelab

3/20/2025 15:48

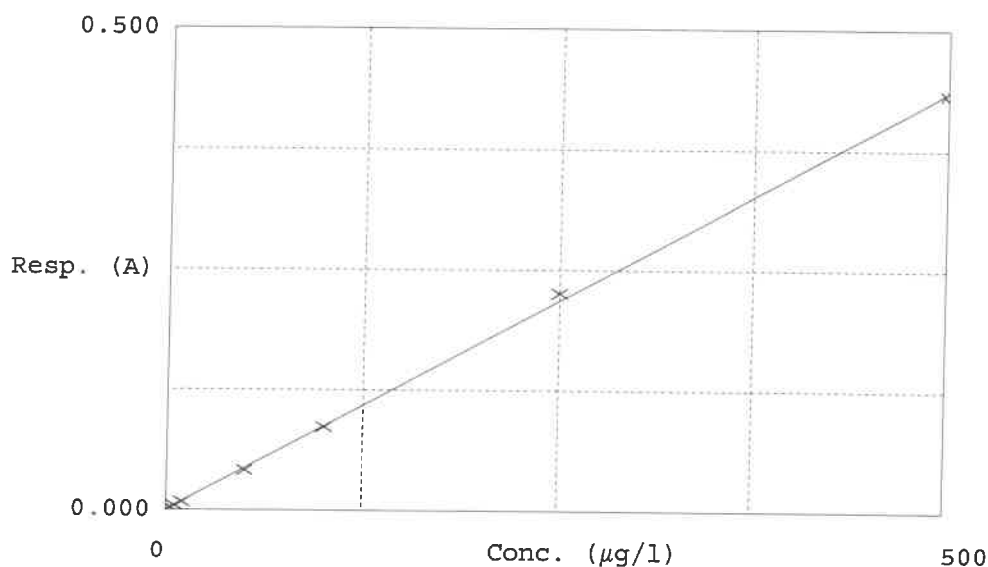
Test Total CN

Accepted 3/20/2025 15:48

Factor 1148
Bias 0

Coeff. of det. 0.999515

Errors



	Calibrator	Response	Calc. con.	Conc.	Errors
1	0.0PPBCN	0.000	-0.0450	0.0000	
2	5.0PPBCN	0.005	4.8007	5.0000	-4.0
3	10PPBCN	0.008	9.2636	10.0000	-1.4
4	50PPBCN	0.042	47.2769	50.0000	-5.4
5	100PPBCN	0.086	98.8277	100.0000	-1.2
6	250PPBCN	0.226	258.7053	250.0000	3.5
7	500PPBCN	0.433	496.1708	500.0000	-0.8

NF
03.20.2025

Analysis Method: 9034

ANALYST: rubina

Parameter: Reactive Sulfide

SUPERVISOR REVIEW BY: Iwona

Run Number: LB135128

Constant: 16000

Normality1: 0.025

Normality2: 0.025

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

Seq	Lab ID	True Value (mg/l)	DF	Initial Weight (g)	Final Volume (ml)	T1 (ml)	T2 Initial	T2 Final	T2 Diff. (ml)	T1 - T2 Diff (mL)	Value Corrected With Blank	Result (ppm)	Anal Date	Anal Time
1	PB167221BL		1	5.00	50	2.00	0.00	1.94	1.94	0.06	0.00	0.00	03/21/2025	12:30
2	Q1592-02		1	5.05	50	2.00	0.00	1.92	1.92	0.08	0.02	1.58	03/21/2025	12:33
3	Q1592-02DUP		1	5.05	50	2.00	0.00	1.92	1.92	0.08	0.02	1.58	03/21/2025	12:36
4	Q1597-02		1	5.07	50	2.00	0.00	1.86	1.86	0.14	0.08	6.31	03/21/2025	12:38
5	Q1597-04		1	5.03	50	2.00	0.00	1.90	1.90	0.10	0.04	3.18	03/21/2025	12:40
6	Q1597-06		1	5.04	50	2.00	0.00	1.86	1.86	0.14	0.08	6.35	03/21/2025	12:42
7	Q1605-02		1	5.01	50	2.00	0.00	1.92	1.92	0.08	0.02	1.60	03/21/2025	12:45
8	Q1606-02		1	5.07	50	2.00	0.00	1.86	1.86	0.14	0.08	6.31	03/21/2025	12:48
9	Q1606-04		1	5.05	50	2.00	0.00	1.88	1.88	0.12	0.06	4.75	03/21/2025	12:50
10	Q1606-06		1	5.07	50	2.00	0.00	1.90	1.90	0.10	0.04	3.16	03/21/2025	12:52
11	Q1606-08		1	5.06	50	2.00	0.00	1.92	1.92	0.08	0.02	1.58	03/21/2025	12:55
12	Q1606-10		1	5.08	50	2.00	0.00	1.86	1.86	0.14	0.08	6.30	03/21/2025	12:58

T1 = Titrant1

T2 = Titrant2

T2 Diff = T2 Final - T2 Initial

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

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

Analysis Method: 9034

Parameter: Reactive Sulfide

Run Number: LB135128

ANALYST: rubina

SUPERVISOR REVIEW BY: Iwona

Constant: 16000

Normality1: 0.025

Normality2: 0.025

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

Seq	Lab ID	True Value (mg/l)	DF	Initial Weight (g)	Final Volume (ml)	T1 (ml)	T2 Initial	T2 Final	T2 Diff. (ml)	T1 - T2 Diff (mL)	Value Corrected With Blank	Result (ppm)	Anal Date	Anal Time
13	Q1609-03		1	5.04	50	2.00	0.00	1.92	1.92	0.08	0.02	1.59	03/21/2025	13:00
14	Q1610-03		1	5.06	50	2.00	0.00	1.86	1.86	0.14	0.08	6.32	03/21/2025	13:03
15	Q1619-06		1	5.04	50	2.00	0.00	1.90	1.90	0.10	0.04	3.17	03/21/2025	13:06
16	Q1619-08		1	5.03	50	2.00	0.00	1.88	1.88	0.12	0.06	4.77	03/21/2025	13:09
17	Q1619-10		1	5.04	50	2.00	0.00	1.90	1.90	0.10	0.04	3.17	03/21/2025	13:12
18	Q1619-12		1	5.04	50	2.00	0.00	1.88	1.88	0.12	0.06	4.76	03/21/2025	13:15
19	Q1619-14		1	5.01	50	2.00	0.00	1.88	1.88	0.12	0.06	4.79	03/21/2025	13:18

T1 = Titrant1

T2 = Titrant2

T2 Diff = T2 Final - T2 Initial

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

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

Analytical Summary Report

Analysis Method: 9095B
Parameter: Paint Filter
Run Number: LB135139

Reviewed By: rubina
Supervisor Review By: Iwona
BalanceID: WC SC-7

Seq	LabID	ClientID	Dilution	Weight(g)	Inst. Conc (ml/100g)	Anal Date	Anal Time
1	Q1606-01	CHRT24743	1	100.07	0.00	03/24/2025	08:25
2	Q1606-01DUP	CHRT24743DUP	1	100.07	0.00	03/24/2025	08:33
3	Q1606-03	RBR251346	1	100.02	0.00	03/24/2025	08:40
4	Q1606-05	RT4534	1	100.02	0.00	03/24/2025	08:48
5	Q1606-07	RT3025	1	100.06	0.00	03/24/2025	08:52
6	Q1606-09	CHRT28607	1	100.05	0.00	03/24/2025	09:00
7	Q1607-01	OR-03-031925	1	100.04	0.00	03/24/2025	09:08
8	Q1609-02	WC-SCRN-01-C	1	100.03	0.00	03/24/2025	09:15
9	Q1610-02	SOIL-PILE	1	100.02	0.00	03/24/2025	09:23
10	Q1611-01	RBR200030	1	100.07	0.00	03/24/2025	09:30
11	Q1614-01	TR-04-032025	1	100.07	0.00	03/24/2025	09:37
12	Q1619-05	TP-1	1	100.04	0.00	03/24/2025	09:45
13	Q1619-07	TP-2	1	100.05	0.00	03/24/2025	09:52
14	Q1619-09	TP-3	1	100.02	0.00	03/24/2025	10:00
15	Q1619-11	TP-4	1	100.06	0.00	03/24/2025	10:07
16	Q1619-13	TP-5	1	100.02	0.00	03/24/2025	10:15

Analytical Summary Report

Analysis Method: 1030
Parameter: Ignitability
Run Number: LB135140

Reviewed By: rubina

Supervisor Review By: Iwona

Seq	LabID	ClientID	DF	matrix	Result Status	Burning Rate	Anal Date	Anal Time
1	Q1606-01	CHRT24743	1	Solid	NO	0.00	03/24/2025	15:40
2	Q1606-01DUP	CHRT24743DUP	1	Solid	NO	0.00	03/24/2025	15:47
3	Q1606-02	CHRT24743	1	Solid	NO	0.00	03/24/2025	15:55
4	Q1606-03	RBR251346	1	Solid	NO	0.00	03/24/2025	16:02
5	Q1606-04	RBR251346	1	Solid	NO	0.00	03/24/2025	16:10
6	Q1606-05	RT4534	1	Solid	NO	0.00	03/24/2025	16:17
7	Q1606-06	RT4534	1	Solid	NO	0.00	03/24/2025	16:25
8	Q1606-07	RT3025	1	Solid	NO	0.00	03/24/2025	16:32
9	Q1606-08	RT3025	1	Solid	NO	0.00	03/24/2025	16:40
10	Q1606-09	CHRT28607	1	Solid	NO	0.00	03/24/2025	16:47
11	Q1606-10	CHRT28607	1	Solid	NO	0.00	03/24/2025	16:55
12	Q1609-03	WC-SCRN-01-C	1	Solid	NO	0.00	03/24/2025	17:02
13	Q1633-01	SLG	1	Solid	NO	0.00	03/24/2025	17:10

$$\text{Burning Rate} = \frac{\text{Length (mm)}}{\text{Total Time (sec)}}$$

WORKLIST(Hardcopy Internal Chain)

LB135140

WorkList Name : IGN-03-20 WorkList ID : 188427 Department : Wet-Chemistry Date : 03-20-2025 16:23:07

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1606-01 C	CHRT24743	Solid	Ignitability	Cool 4 deg C	PSEG03	I41	03/19/2025	1030
Q1606-02 B	CHRT24743	Solid	Ignitability	Cool 4 deg C	PSEG03	I41	03/19/2025	1030
Q1606-03 D	RBR251346	Solid	Ignitability	Cool 4 deg C	PSEG03	I41	03/19/2025	1030
Q1606-04 B	RBR251346	Solid	Ignitability	Cool 4 deg C	PSEG03	I41	03/19/2025	1030
Q1606-05 C	RT4534	Solid	Ignitability	Cool 4 deg C	PSEG03	I41	03/19/2025	1030
Q1606-06 E	RT4534	Solid	Ignitability	Cool 4 deg C	PSEG03	I41	03/19/2025	1030
Q1606-07 E	RT3025	Solid	Ignitability	Cool 4 deg C	PSEG03	I41	03/19/2025	1030
Q1606-08 B	RT3025	Solid	Ignitability	Cool 4 deg C	PSEG03	I41	03/19/2025	1030
Q1606-09 E	CHRT28607	Solid	Ignitability	Cool 4 deg C	PSEG03	I41	03/19/2025	1030
Q1606-10 A	CHRT28607	Solid	Ignitability	Cool 4 deg C	PSEG03	I41	03/19/2025	1030
Q1633-01 D	SLG	Solid	Ignitability	Cool 4 deg C	PSEG03	I41	03/19/2025	1030
Q1609-03 B	WC-SCRN-01-C	Solid	Ignitability	Cool 4 deg C	ENTA05	I51	03/19/2025	1030

Date/Time 03/24/2025 14:50
 Raw Sample Received by: RM cwe
 Raw Sample Relinquished by: RM cwe

Date/Time 03/24/2025 17:2
 Raw Sample Received by: RM cwe
 Raw Sample Relinquished by: RM cwe

TOTAL SOLIDS - SM2540B

SUPERVISOR: Iwona

ANALYST: jignesh

Date: 03/24/2025

Run Number: LB135147

BalanceID: WC SC-6

OvenID: WC OVEN-1

ThermometerID: WET OVEN#1

TEMP1 IN: 103 °C 03/24/2025 12:00 **TEMP1 OUT:** 103 °C 03/24/2025 13:00
TEMP2 IN: 104 °C 03/24/2025 13:30 **TEMP2 OUT:** 103 °C 03/24/2025 14:30
TEMP3 IN: 104 °C 03/24/2025 14:40 **TEMP3 OUT:** 103 °C 03/25/2025 08:00
TEMP4 IN: 104 °C 03/25/2025 08:30 **TEMP4 OUT:** 103 °C 03/25/2025 10:00

Dish #	Lab ID	Client ID	Empty Dish Weight (g)	Final Empty Dish Weight (g)	Sample Vol (ml)	Original weight 1st Dish+Sample weight after Drying @103-@105°C (g)	Constant weight 2nd Dish+Sample weight after Drying @103-@105°C (g)	Final Constant weight Final Dish+Sample weight after Drying @103-@105°C (g)	Weight (g)	Result (mg/L)
1	LB135147BL	LB135147BL	89.6367	89.6367	100	89.6367	89.6367	89.6367	0.0000	0
2	Q1609-04	WC-SCRN-01-C	147.5030	147.5030	100	147.5050	147.5050	147.5050	0.0020	20
3	Q1609-04DUP	WC-SCRN-01-CDUP	152.7660	152.7660	100	152.7680	152.7680	152.7680	0.0020	20

A = Sample Volume (ml)

B = Final Empty Dish Weight (g)

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

$$\text{Result mg/L} = ((C - B) / A) * 1000 * 1000$$

WORKLIST(Hardcopy Internal Chain)

12135147

WorkList Name : asfm ts q1623

WorkList ID : 188476

Department : Wet-Chemistry

Date : 03-24-2025 09:45:28

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1609-04	WC-SCRN-01-C	Solid	ASTM TS	Cool 4 deg C	ENTA05	I51	03/19/2025	SM2540 B

Date/Time 03/24/25 09:55

Raw Sample Received by: [Signature]

Raw Sample Relinquished by: [Signature]

Date/Time 03/24/25

Raw Sample Received by: [Signature]

Raw Sample Relinquished by: [Signature]

Extraction and Analytical Summary Report

Analysis Method: 1664A
Test: ASTM Oil and Grease
Run Number: LB135150
Analysis Date: 03/24/2025
BalanceID: WC SC-6
OvenID: EXT OVEN-3

ANALYST: jignesh
REVIEWED BY: Iwona
Extraction Date: 03/24/2025
Extraction IN Time: 10:10
Extraction OUT Time: 10:30
Thermometer ID: EXT OVEN#3

Dish #	Lab ID	Client ID	Matrix	pH	Sample Weight (g)	Final Volume (ml)	Empty Dish Weight (g)	Final Empty Dish Weight (g)	Silica Gel Weight (g)	Weight After Drying (g)	Final Weight After Drying (g)	Change Weight (g)	Result in ppm
1	LB135150BL	LB135150BL	WATER	1.3	1000	100	2.7413	2.7413	0	2.7414	2.7414	0.0001	0.1
2	LB135150BS	LB135150BS	WATER	1.3	1000	100	2.9363	2.9363	0	2.9530	2.9530	0.0167	16.7
3	Q1609-04	WC-SCRN-01-C	WATER	1.3	1000	100	3.0148	3.0148	0	3.0151	3.0151	0.0003	0.3
4	Q1609-04DUP	WC-SCRN-01-CDUP	WATER	1.3	1000	100	2.8563	2.8563	0	2.8566	2.8566	0.0003	0.3
5	Q1609-04MS	WC-SCRN-01-C	WATER	1.3	1000	100	3.1477	3.1477	0	3.1681	3.1681	0.0204	20.4
6	Q1609-04MSD	WC-SCRN-01-C	WATER	1.3	1000	100	2.9903	2.9903	0	3.0109	3.0109	0.0206	20.6

QC Batch# LB135150

Test: ASTM Oil and Grease

Analysis Date: 03/24/2025

Chemicals Used:

Chemical Name	Chemical Lot #
HEXANE	W3177
pH Paper 0-14	M6069
Sodium Sulfate	EP2595
1:1 HCL	WP110826
Silica Gel	NA
Sand	NA

Standards Used:

Standard Name	Amount Used	Standard Lot #
LCSW	2.5 ML	WP110827
LCSWD	NA	NA
MS/MSD	2.5 ML	WP110828

BALANCE CALIBRATION / OVEN Dessicator Data

Analytical Balance ID # : WC SC-6

Before Analysis

0.0020 gram Balance: 0.0018 (0.0018-0.0022) In OVEN TEMP1 : 70 °C Dessicator Time In1 : 12:01

1.0000 gram Balance: 1.0004 (0.9950-1.0050) In Time1: 11:10

Bal Check Time: 10:20 Out OVEN TEMP1: 70 °C Dessicator Time Out1: 12:35

Out Time1: 12:00

After Analysis

0.0020 gram Balance: 0.0019 (0.0018-0.0022) In OVEN TEMP2 : 71 °C Dessicator Time In2 : 13:36

1.0000 gram Balance: 1.0005 (0.9950-1.0050) In Time2: 13:00

Bal Check Time: 14:15 Out OVEN TEMP2: 71 °C Dessicator Time Out2: 14:10

Out Time2: 13:35

WORKLIST(Hardcopy Internal Chain)

135150

WorkList Name : astm oil & grease q1609

WorkList ID : 188477

Department : Wet-Chemistry

Date : 03-24-2025 09:46:20

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1609-04	WC-SCRN-01-C	Solid	ASTM Oil and Grease	Cool 4 deg C	ENTA05	I51	03/19/2025	1664A

Date/Time 03/24/25 10:00

Raw Sample Received by: [Signature]

Raw Sample Relinquished by: [Signature]

Date/Time 03/24/25 14:00

Raw Sample Received by: [Signature]

Raw Sample Relinquished by: [Signature]

Analytical Summary Report

Analysis Method: SM5220 D
Parameter: ASTM COD
Run Number: LB135160

ANALYST: Niha

SUPERVISOR REVIEW BY: Iwona

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 ICV-LCS std, 50ppm	WP112412
COD CCV std, 50ppm	WP112411
COD Digestion Vials Low Level 0-150Mg/L	W3127

Temp In (C): <u>148</u>	Date In: <u>03/24/2025</u>	Time In: <u>14:00</u>
Temp Out (C): <u>150</u>	Date Out: <u>03/24/2025</u>	Time Out: <u>16:00</u>

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: ASTM COD

SUPERVISOR REVIEW BY: Iwona

Run Number: LB135160

Seq	Lab ID	True Value (mg/l)	Initial Weight (g)	Final Vol (ml)	DF	MATRIX	Reading	Result	AnalDate	AnalTime
1	ICV	50	NA	NA	1	Water	50.000	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	50.000	49.329	03/24/2025	17:05
4	CCB1		NA	NA	1	Water	0.000	-0.166	03/24/2025	17:05
5	LB135160BL		NA	NA	1	Water	0.000	-0.166	03/24/2025	17:06
6	LB135160BS	50	NA	NA	1	Water	51.000	50.319	03/24/2025	17:06
7	Q1609-04		NA	NA	1	Water	18.000	17.652	03/24/2025	17:07
8	Q1609-04DUP		NA	NA	1	Water	19.000	18.642	03/24/2025	17:07
9	Q1609-04MS	50	NA	NA	1	Water	58.000	57.249	03/24/2025	17:08
10	Q1609-04MSD	50	NA	NA	1	Water	60.000	59.228	03/24/2025	17:08
11	CCV2	50	NA	NA	1	Water	50.000	49.329	03/24/2025	17:09
12	CCB2		NA	NA	1	Water	0.000	-0.166	03/24/2025	17:09

LB135160

WORKLIST(Hardcopy Internal Chain)

WorkList Name : ASTM COD-03242025

WorkList ID : 188493

Department : Wet-Chemistry

Date : 03-24-2025 10:57:21

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1609-04	WC-SCRN-01-C	Solid	ASTM COD	Cool 4 deg C	ENTA05	I51	03/19/2025	SM5220 D

Date/Time 03.24.2025, 13:00
Raw Sample Received by: NF(wc)
Raw Sample Relinquished by: Jhu09

Date/Time 03.24.2025, 16:00
Raw Sample Received by: Jhu09
Raw Sample Relinquished by: NF(wc)

Extraction and Analytical Summary Report

Analysis Method: 9071B
Test: Oil and Grease
Run Number: LB135168
Analysis Date: 03/25/2025
BalanceID: WC SC-6
OvenID: EXT OVEN-3

ANALYST: jignesh
REVIEWED BY: Iwona
Extraction Date: 03/25/2025
Extraction IN Time: 08:15
Extraction OUT Time: 08:37
Thermometer ID: EXT OVEN#3

Dish #	Lab ID	Client ID	Matrix	pH	Sample Weight (g)	Final Volume (ml)	Empty Dish Weight (g)	Final Empty Dish Weight (g)	Silica Gel Weight (g)	Weight After Drying (g)	Final Weight After Drying (g)	Change Weight (g)	Result in ppm
1	LB135168BL	LB135168BL	SOLID		20.02	100	2.8563	2.8563	0	2.8563	2.8563	0.0000	0
2	LB135168BS	LB135168BS	SOLID		20.03	100	3.1744	3.1744	0	3.1763	3.1763	0.0019	94.86
3	Q1609-02	WC-SCRN-01-C	SOLID		20.04	100	3.0725	3.0725	0	3.0775	3.0775	0.0050	249.5
4	Q1626-01	CO-32-1	SOLID		20.02	100	3.0403	3.0403	0	3.0769	3.0769	0.0366	1828.17
5	Q1632-01	PIER-1-2	SOLID		20.03	100	3.0269	3.0269	0	3.0273	3.0273	0.0004	19.97
6	Q1632-01DUP	PIER-1-2DUP	SOLID		20.02	100	3.0576	3.0576	0	3.0580	3.0580	0.0004	19.98
7	Q1632-01MS	PIER-1-2	SOLID		20.03	100	3.0466	3.0466	0	3.0473	3.0473	0.0007	34.95
8	Q1632-01MSD	PIER-1-2	SOLID		20.03	100	3.0283	3.0283	0	3.0293	3.0293	0.0010	49.93

Out Time2: 12:00

WORKLIST(Hardcopy Internal Chain)

135168

WorkList Name : oil & grease Q1609

WorkList ID : 188501

Department : Wet-Chemistry

Date : 03-25-2025 07:52:06

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1609-02	E WC-SCRN-01-C	Solid	Oil and Grease	Cool 4 deg C	ENTA05	I51	03/19/2025	9071B
Q1626-01	F CO-32-1	Solid	Oil and Grease	Cool 4 deg C	WALS01	F11	03/21/2025	9071B
Q1632-01	B PIER-1-2	Solid	Oil and Grease	Cool 4 deg C	PSEG03	I41	03/24/2025	9071B

Date/Time 03/25/25 08:10

Raw Sample Received by: [Signature]

Raw Sample Relinquished by: [Signature]

Date/Time 03/25/25 13:13

Raw Sample Received by: [Signature]

Raw Sample Relinquished by: [Signature]

LB1351

Test results

Aquakem 7.2AQ1

Page:

CHEMTECH CONSULTING GROUP INC
284 Sheffield Street, Mountainside, NJ 07092

3/26/2025 9:33

Reviewed by : RM Instrument ID : Konelab

Test: Ammonia-N

Sample Id	Result	Dil. 1 +	Response	Errors
ICV1	0.992	0.0	0.194	
ICB1	0.001	0.0	0.021	
CCV1	0.969	0.0	0.190	
CCB1	-0.003	0.0	0.020	
RL CHECK	0.091	0.0	0.037	
PB167282BL	-0.004	0.0	0.020	
PB167282BS	1.029	0.0	0.200	
PB167282TB	-0.001	0.0	0.021	
Q1609-04	0.002	0.0	0.021	
Q1609-04DUP	0.009	0.0	0.022	
Q1609-04MS	0.982	0.0	0.192	
Q1609-04MSD	0.993	0.0	0.194	
CCV2	0.965	0.0	0.189	
CCB2	-0.002	0.0	0.020	

911 (50-150)

03/26/2025
RM

N 14
Mean 0.430
SD 0.5023
CV% 116.73

Aquakem v. 7.2AQ1

Results from time period:

Wed Mar 26 08:31:41 2025

Wed Mar 26 09:30:28 2025

Sample Id	Sam/Ctr/c	Test short r	Test type	Result	Result unit	Result date and time	Stat
0.0PPM	A	Ammonia-† P		0.0051	mg/l	3/26/2025 8:31:41	
0.1PPM	A	Ammonia-† P		0.0996	mg/l	3/26/2025 8:31:42	
0.2PPM	A	Ammonia-† P		0.2054	mg/l	3/26/2025 8:31:43	
0.4PPM	A	Ammonia-† P		0.3944	mg/l	3/26/2025 8:31:44	
1.0PPM	A	Ammonia-† P		0.9909	mg/l	3/26/2025 8:31:45	
1.3PPM	A	Ammonia-† P		1.3319	mg/l	3/26/2025 8:31:46	
2.0PPM	A	Ammonia-† P		2.0061	mg/l	3/26/2025 8:31:47	
ICV1	S	Ammonia-† P		0.9919	mg/l	3/26/2025 9:12:28	
ICB1	S	Ammonia-† P		0.0015	mg/l	3/26/2025 9:12:30	
CCV1	S	Ammonia-† P		0.9695	mg/l	3/26/2025 9:12:32	
CCB1	S	Ammonia-† P		-0.0026	mg/l	3/26/2025 9:12:34	
RL CHECK	S	Ammonia-† P		0.0913	mg/l	3/26/2025 9:12:36	
PB167282BL	S	Ammonia-† P		-0.0035	mg/l	3/26/2025 9:12:38	
PB167282BS	S	Ammonia-† P		1.0289	mg/l	3/26/2025 9:23:10	
PB167282TB	S	Ammonia-† P		-0.0009	mg/l	3/26/2025 9:23:11	
Q1609-04	S	Ammonia-† P		0.0018	mg/l	3/26/2025 9:23:14	
Q1609-04DUP	S	Ammonia-† P		0.0089	mg/l	3/26/2025 9:23:15	
Q1609-04MS	S	Ammonia-† P		0.9822	mg/l	3/26/2025 9:23:17	
Q1609-04MSD	S	Ammonia-† P		0.9929	mg/l	3/26/2025 9:23:18	
CCV2	S	Ammonia-† P		0.9652	mg/l	3/26/2025 9:30:26	
CCB2	S	Ammonia-† P		-0.0024	mg/l	3/26/2025 9:30:28	

Calibration results

Aquakem 7.2AQ1

Page: 1

CHEMTECH CONSULTING GROUP INC
284 Sheffield Street, Mountainside, NJ 07092

3/26/2025 8:41

Reviewed by : RM

Instrument ID : Konelab

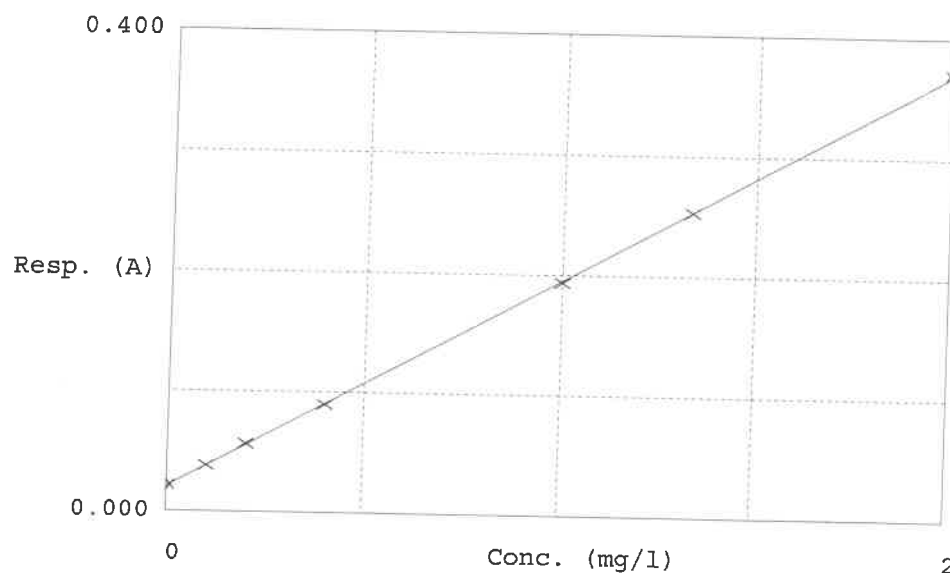
Test Ammonia-N

Accepted 3/26/2025 8:41

Factor 5.734
Bias 0.021

Coeff. of det. 0.999938

Errors



	Calibrator	Response	Calc. con.	Conc.	Errors
1	0.00PPM	0.022	0.0051	0.0000	✓
2	NH3-2PPM	0.038	0.0996	0.1000	-0.4
3	NH3-2PPM	0.057	0.2054	0.2000	2.7
4	NH3-2PPM	0.090	0.3944	0.4000	-1.4
5	NH3-2PPM	0.194	0.9909	1.0000	-0.4
6	NH3-2PPM	0.253	1.3319	1.3333	2.5
7	NH3-2PPM	0.371	2.0061	2.0000	0.3

03/26/2025
RM

SOP ID : M9030B-Sulfide-12

SDG No : N/A

Start Digest Date: 03/21/2025 Time : 10:10 Temp : N/A

Matrix : SOIL

End Digest Date: 03/21/2025 Time : 11:40 Temp : N/A

Pipette ID : WC

Balance ID : WC SC-7

Hood ID : HOOD#1

Digestion tube ID : M5595

Block Thermometer ID : N/A

Block ID : MC-1,MC-2

Filter paper ID : N/A

Prep Technician Signature: RM

Weigh By : RM

pH Meter ID : N/A

Supervisor Signature: 12

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

Chemical Used	ML/SAMPLE USED	Lot Number
0.5M ZINC ACETATE	5.0ML	WP111004
FORMALDEHYDE	2.0ML	W2725
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

03/21/2025 RM

N/A

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

Lab Sample ID	Client Sample ID	Initial Weight (g)	Final Vol (ml)	pH	Sulfide	Oxidizing	Nitrate/ Nitrite	Comment	Prep Pos
PB167221BL	PBS221	5.00	50	N/A	N/A	N/A	N/A	N/A	N/A
Q1592-02DUP	OILY-DEBRIS-COMPDUP	5.05	50	N/A	N/A	N/A	N/A	N/A	N/A
Q1592-02	OILY-DEBRIS-COMP	5.05	50	N/A	N/A	N/A	N/A	N/A	N/A
Q1597-02	1-CONCRETE-SLAB	5.07	50	N/A	N/A	N/A	N/A	N/A	N/A
Q1597-04	2-CONCRETE-SLAB	5.03	50	N/A	N/A	N/A	N/A	N/A	N/A
Q1597-06	3-CONCRETE-SLAB	5.04	50	N/A	N/A	N/A	N/A	N/A	N/A
Q1605-02	DRUM-SOIL-CUTTING	5.01	50	N/A	N/A	N/A	N/A	N/A	N/A
Q1606-02	CHRT24743	5.07	50	N/A	N/A	N/A	N/A	N/A	N/A
Q1606-04	RBR251346	5.05	50	N/A	N/A	N/A	N/A	N/A	N/A
Q1606-06	RT4534	5.07	50	N/A	N/A	N/A	N/A	N/A	N/A
Q1606-08	RT3025	5.06	50	N/A	N/A	N/A	N/A	N/A	N/A
Q1606-10	CHRT28607	5.08	50	N/A	N/A	N/A	N/A	N/A	N/A
Q1609-03	WC-SCRN-01-C	5.04	50	N/A	N/A	N/A	N/A	N/A	N/A
Q1610-03	SOIL-PILE	5.06	50	N/A	N/A	N/A	N/A	N/A	N/A
Q1619-06	TP-1	5.04	50	N/A	N/A	N/A	N/A	N/A	N/A
Q1619-08	TP-2	5.03	50	N/A	N/A	N/A	N/A	N/A	N/A
Q1619-10	TP-3	5.04	50	N/A	N/A	N/A	N/A	N/A	N/A
Q1619-12	TP-4	5.04	50	N/A	N/A	N/A	N/A	N/A	N/A
Q1619-14	TP-5	5.01	50	N/A	N/A	N/A	N/A	N/A	N/A

SOP ID : M9012B-Total, Amenable and Reactive Cyanide-20

SDG No : N/A

Matrix : SOIL

Pipette ID : N/A

Balance ID : WC SC-7

Hood ID : HOOD#1

Block ID : MC-1, MC-2

Weigh By : NF

Start Digest Date: 03/20/2025 **Time :** 14:10 **Temp :** N/A

End Digest Date: 03/20/2025 **Time :** 15:40 **Temp :** N/A

Digestion tube ID : M5595

Block Thermometer ID : N/A

Filter paper ID : N/A

Prep Technician Signature: NF

pH Meter ID : N/A

Supervisor Signature: 12

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

Chemical Used	ML/SAMPLE USED	Lot Number
0.25N NaOH	50.0ML	WP111294
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

LAB SAMPLE ID	CLIENT SAMPLE ID	Comment

Extraction Conformance/Non-Conformance Comments:

N/A

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
03.20.2025, 15:55	NF/WC	NF/WC
	Preparation Group	Analysis Group

Lab Sample ID	Client Sample ID	Initial Weight (g)	Final Vol (ml)	pH	Sulfide	Oxidizing	Nitrate/ Nitrite	Comment	Prep Pos
PB167241BL	PBS241	5.00	50	N/A	N/A	N/A	N/A	N/A	N/A
Q1590-01DUP	3794DUP	5.01	50	N/A	N/A	N/A	N/A	N/A	N/A
Q1590-01	3794	5.05	50	N/A	N/A	N/A	N/A	N/A	N/A
Q1592-02	OILY-DEBRIS-COMP	5.04	50	N/A	N/A	N/A	N/A	N/A	N/A
Q1597-02	1-CONCRETE-SLAB	5.01	50	N/A	N/A	N/A	N/A	N/A	N/A
Q1597-04	2-CONCRETE-SLAB	5.03	50	N/A	N/A	N/A	N/A	N/A	N/A
Q1597-06	3-CONCRETE-SLAB	5.02	50	N/A	N/A	N/A	N/A	N/A	N/A
Q1605-02	DRUM-SOIL-CUTTING	5.04	50	N/A	N/A	N/A	N/A	N/A	N/A
Q1606-02	CHRT24743	5.02	50	N/A	N/A	N/A	N/A	N/A	N/A
Q1606-04	RBR251346	5.01	50	N/A	N/A	N/A	N/A	N/A	N/A
Q1606-06	RT4534	5.01	50	N/A	N/A	N/A	N/A	N/A	N/A
Q1606-08	RT3025	5.05	50	N/A	N/A	N/A	N/A	N/A	N/A
Q1606-10	CHRT28607	5.02	50	N/A	N/A	N/A	N/A	N/A	N/A
Q1609-03	WC-SCRN-01-C	5.02	50	N/A	N/A	N/A	N/A	N/A	N/A
Q1610-03	SOIL-PILE	5.05	50	N/A	N/A	N/A	N/A	N/A	N/A

SOP ID : MSM4500-NH3 B,G-Ammonia-17

SDG No : N/A

Start Digest Date: 03/24/2025 Time : 12:00 Temp : 150 °C

Matrix : WATER

End Digest Date: 03/24/2025 Time : 13:00 Temp : 160 °C

Pipette ID : WC

Balance ID : N/A

Hood ID : HOOD#2

Digestion tube ID : M5595

Block Thermometer ID : WC CYANIDE

Block ID : WC-DIST-BLOCK-1

Filter paper ID : N/A

Prep Technician Signature: RM

Weigh By : RM

pH Meter ID : N/A

Supervisor Signature: 12

Standardized Name	MLS USED	STD REF. # FROM LOG
LCSW	1.0ML	WP112335
MS/MSD SPIKE SOL.	1.0ML	WP112334
PBW	50.0ML	W3112
RL CHECK	0.1ML	WP112334
N/A	N/A	N/A

Chemical Used	ML/SAMPLE USED	Lot Number
BORATE BUFFER	2.5ML	WP111325
NAOH 6N	0.5-2.0ML	WP111318
H2SO4 0.04N	5.0ML	WP110335
pH Paper 0-14	N/A	W3140
KI-starch paper	N/A	W3155
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

ALL GLASSWEAR ARE STEAMED OUT AND THERE WERE NO TRACE OF AMMONIA USING NESLER REAGENT
WP111604

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
03/24/2025 13:10	RM (WC)	RM (WC)
	Preparation Group	Analysis Group

Lab Sample ID	Client Sample ID	Initial Vol (ml)	Final Vol (ml)	pH	Sulfide	Oxidizing	Nitrate/ Nitrite	Comment	Prep Pos
PB167282BL	PBW282	50	50	<2	N/A	Negative	N/A	AFTER ADDING 6N NAOH PH IS 9.5	N/A
PB167282BS	LCS282	50	50	<2	N/A	Negative	N/A	AFTER ADDING 6N NAOH PH IS 9.5	N/A
PB167282TB	LEB282	50	50	<2	N/A	Negative	N/A	AFTER ADDING 6N NAOH PH IS 9.5	N/A
Q1609-04DUP	WC-SCRN-01-CDUP	50	50	<2	N/A	Negative	N/A	AFTER ADDING 6N NAOH PH IS 9.5	N/A
Q1609-04MS	WC-SCRN-01-CMS	50	50	<2	N/A	Negative	N/A	AFTER ADDING 6N NAOH PH IS 9.5	N/A
Q1609-04MSD	WC-SCRN-01-CMSD	50	50	<2	N/A	Negative	N/A	AFTER ADDING 6N NAOH PH IS 9.5	N/A
Q1609-04	WC-SCRN-01-C	50	50	<2	N/A	Negative	N/A	AFTER ADDING 6N NAOH PH IS 9.5	N/A

Instrument ID: WC SC-3

Daily Analysis Runlog For Sequence/QC Batch ID # LB135108

Review By	jignesh	Review On	3/21/2025 10:45:42 AM
Supervise By	Iwona	Supervise On	3/21/2025 12:40:53 PM
SubDirectory	LB135108	Test	TS
STD. NAME	STD REF.#		
ICAL Standard	N/A		
ICV Standard	N/A		
CCV Standard	N/A		
ICSA Standard	N/A		
CRI Standard	N/A		
LCS Standard	N/A		
Chk Standard	N/A		

Sr#	SampleID	ClientID	QcType	Date	Comment	Operator	Status
1	LB135108BL	LB135108BL	MB	03/20/25 11:00		jignesh	OK
2	Q1609-02	WC-SCRN-01-C	SAM	03/20/25 11:00		jignesh	OK
3	Q1609-02DUP	WC-SCRN-01-CDUP	DUP	03/20/25 11:00		jignesh	OK

Instrument ID: WC SC-3

Daily Analysis Runlog For Sequence/QC Batch ID # LB135109

Review By	jignesh	Review On	3/21/2025 11:09:34 AM
Supervise By	Iwona	Supervise On	3/21/2025 12:41:18 PM
SubDirectory	LB135109	Test	TVS
STD. NAME	STD REF.#		
ICAL Standard	N/A		
ICV Standard	N/A		
CCV Standard	N/A		
ICSA Standard	N/A		
CRI Standard	N/A		
LCS Standard	N/A		
Chk Standard	N/A		

Sr#	SampleID	ClientID	QcType	Date	Comment	Operator	Status
1	LB135109BL	LB135109BL	MB	03/20/25 16:00		jignesh	OK
2	Q1609-02	WC-SCRN-01-C	SAM	03/20/25 16:00		jignesh	OK
3	Q1609-02DUP	WC-SCRN-01-CDUP	DUP	03/20/25 16:00		jignesh	OK

Instrument ID: WC PH METER-1

Daily Analysis Runlog For Sequence/QC Batch ID # LB135115

Review By	jignesh	Review On	3/21/2025 9:11:28 AM
Supervise By	Iwona	Supervise On	3/21/2025 12:39:41 PM
SubDirectory	LB135115	Test	Corrosivity
STD. NAME	STD REF.#		
ICAL Standard	N/A		
ICV Standard	N/A		
CCV Standard	N/A		
ICSA Standard	N/A		
CRI Standard	N/A		
LCS Standard	N/A		
Chk Standard	W3107,W3093,W3094,W3071,W3161,W3072		

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	CAL1	CAL1	CAL	03/20/25 16:14		Jignesh	OK
2	CAL2	CAL2	CAL	03/20/25 16:15		Jignesh	OK
3	CAL3	CAL3	CAL	03/20/25 16:20		Jignesh	OK
4	ICV	ICV	ICV	03/20/25 16:22		Jignesh	OK
5	CCV1	CCV1	CCV	03/20/25 16:25		Jignesh	OK
6	Q1605-02	DRUM-SOIL-CUTTIN	SAM	03/20/25 16:30		Jignesh	OK
7	Q1606-02	CHRT24743	SAM	03/20/25 16:35		Jignesh	OK
8	Q1606-04	RBR251346	SAM	03/20/25 16:37		Jignesh	OK
9	Q1606-06	RT4534	SAM	03/20/25 16:40		Jignesh	OK
10	Q1606-08	RT3025	SAM	03/20/25 16:47		Jignesh	OK
11	Q1606-10	CHRT28607	SAM	03/20/25 16:50		Jignesh	OK
12	Q1609-03	WC-SCRN-01-C	SAM	03/20/25 17:00		Jignesh	OK
13	Q1609-03DUP	WC-SCRN-01-CDUP	DUP	03/20/25 17:01		Jignesh	OK
14	Q1610-03	SOIL-PILE	SAM	03/20/25 17:05		Jignesh	OK
15	Q1619-06	TP-1	SAM	03/20/25 17:10		Jignesh	OK
16	CCV2	CCV2	CCV	03/20/25 17:11		Jignesh	OK
17	Q1619-08	TP-2	SAM	03/20/25 17:15		Jignesh	OK
18	Q1619-10	TP-3	SAM	03/20/25 17:20		Jignesh	OK

Instrument ID: WC PH METER-1

Daily Analysis Runlog For Sequence/QC Batch ID # LB135115

Review By	jignesh	Review On	3/21/2025 9:11:28 AM
Supervise By	Iwona	Supervise On	3/21/2025 12:39:41 PM
SubDirectory	LB135115	Test	Corrosivity
STD. NAME	STD REF.#		
ICAL Standard	N/A		
ICV Standard	N/A		
CCV Standard	N/A		
ICSA Standard	N/A		
CRI Standard	N/A		
LCS Standard	N/A		
Chk Standard	W3107,W3093,W3094,W3071,W3161,W3072		

19	Q1619-12	TP-4	SAM	03/20/25 17:24		Jignesh	OK
20	Q1619-14	TP-5	SAM	03/20/25 17:25		Jignesh	OK
21	CCV3	CCV3	CCV	03/20/25 17:30		Jignesh	OK

Instrument ID: WC PH METER-1

Daily Analysis Runlog For Sequence/QC Batch ID # LB135116

Review By	jignesh	Review On	3/21/2025 9:15:41 AM
Supervise By	Iwona	Supervise On	3/21/2025 12:40:18 PM
SubDirectory	LB135116	Test	pH
STD. NAME	STD REF.#		
ICAL Standard	N/A		
ICV Standard	N/A		
CCV Standard	N/A		
ICSA Standard	N/A		
CRI Standard	N/A		
LCS Standard	N/A		
Chk Standard	W3107,W3093,W3094,W3071,W3161,W3072		

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	CAL1	CAL1	CAL	03/20/25 16:14		Jignesh	OK
2	CAL2	CAL2	CAL	03/20/25 16:15		Jignesh	OK
3	CAL3	CAL3	CAL	03/20/25 16:20		Jignesh	OK
4	ICV	ICV	ICV	03/20/25 16:22		Jignesh	OK
5	CCV1	CCV1	CCV	03/20/25 16:25		Jignesh	OK
6	Q1609-02	WC-SCRN-01-C	SAM	03/20/25 17:00		Jignesh	OK
7	Q1609-02DUP	WC-SCRN-01-CDUP	DUP	03/20/25 17:01		Jignesh	OK
8	CCV2	CCV2	CCV	03/21/25 17:11		Jignesh	OK

Instrument ID: KONELAB

Daily Analysis Runlog For Sequence/QC Batch ID # LB135117

Review By	Niha	Review On	3/21/2025 8:30:22 AM
Supervise By	Iwona	Supervise On	3/21/2025 10:59:52 AM
SubDirectory	LB135117	Test	Reactive Cyanide
STD. NAME	STD REF.#		
ICAL Standard	WP112394,WP112395,WP112396,WP112397,WP112398,WP112399,WP112400		
ICV Standard	WP112402		
CCV Standard	WP112395		
ICSA Standard	N/A		
CRI Standard	N/A		
LCS Standard	N/A		
Chk Standard	WP111035,WP110103,WP112401		

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	0.0PPBCN	0.0PPBCN	CAL1	03/20/25 15:47		Niha	OK
2	5.0PPBCN	5.0PPBCN	CAL2	03/20/25 15:47		Niha	OK
3	10PPBCN	10PPBCN	CAL3	03/20/25 15:47		Niha	OK
4	50PPBCN	50PPBCN	CAL4	03/20/25 15:47		Niha	OK
5	100PPBCN	100PPBCN	CAL5	03/20/25 15:47		Niha	OK
6	250PPBCN	250PPBCN	CAL6	03/20/25 15:47		Niha	OK
7	500PPBCN	500PPBCN	CAL7	03/20/25 15:47		Niha	OK
8	ICV1	ICV1	ICV	03/20/25 16:17		Niha	OK
9	ICB1	ICB1	ICB	03/20/25 16:17		Niha	OK
10	CCV1	CCV1	CCV	03/20/25 16:17		Niha	OK
11	CCB1	CCB1	CCB	03/20/25 16:17		Niha	OK
12	PB167241BL	PB167241BL	MB	03/20/25 16:17		Niha	OK
13	Q1590-01	3794	SAM	03/20/25 16:17		Niha	OK
14	Q1590-01DUP	3794DUP	DUP	03/20/25 16:24		Niha	OK
15	Q1592-02	OILY-DEBRIS-COMP	SAM	03/20/25 16:24		Niha	OK
16	Q1597-02	1-CONCRETE-SLAB	SAM	03/20/25 16:24		Niha	OK
17	Q1597-04	2-CONCRETE-SLAB	SAM	03/20/25 16:24		Niha	OK
18	Q1597-06	3-CONCRETE-SLAB	SAM	03/20/25 16:24		Niha	OK

Instrument ID: KONELAB

Daily Analysis Runlog For Sequence/QC Batch ID # LB135117

Review By	Niha	Review On	3/21/2025 8:30:22 AM
Supervise By	Iwona	Supervise On	3/21/2025 10:59:52 AM
SubDirectory	LB135117	Test	Reactive Cyanide
STD. NAME	STD REF.#		
ICAL Standard	WP112394,WP112395,WP112396,WP112397,WP112398,WP112399,WP112400		
ICV Standard	WP112402		
CCV Standard	WP112395		
ICSA Standard	N/A		
CRI Standard	N/A		
LCS Standard	N/A		
Chk Standard	WP111035,WP110103,WP112401		

19	Q1605-02	DRUM-SOIL-CUTTIN	SAM	03/20/25 16:24		Niha	OK
20	Q1606-02	CHRT24743	SAM	03/20/25 16:24		Niha	OK
21	Q1606-04	RBR251346	SAM	03/20/25 16:24		Niha	OK
22	CCV2	CCV2	CCV	03/20/25 16:24		Niha	OK
23	CCB2	CCB2	CCB	03/20/25 16:32		Niha	OK
24	Q1606-06	RT4534	SAM	03/20/25 16:32		Niha	OK
25	Q1606-08	RT3025	SAM	03/20/25 16:32		Niha	OK
26	Q1606-10	CHRT28607	SAM	03/20/25 16:32		Niha	OK
27	Q1609-03	WC-SCRN-01-C	SAM	03/20/25 16:32		Niha	OK
28	Q1610-03	SOIL-PILE	SAM	03/20/25 16:32		Niha	OK
29	PB167242BL	PB167242BL	MB	03/20/25 16:32		Niha	OK
30	Q1590-04	3799	SAM	03/20/25 16:32		Niha	OK
31	Q1590-04DUP	3799DUP	DUP	03/20/25 16:32		Niha	OK
32	Q1604-02	FRAC-TANK-N45878	SAM	03/20/25 16:32		Niha	OK
33	Q1606-11	N48965	SAM	03/20/25 16:32		Niha	OK
34	CCV3	CCV3	CCV	03/20/25 16:36		Niha	OK
35	CCB3	CCB3	CCB	03/20/25 16:36		Niha	OK

Instrument ID: TITRAMETRIC

Daily Analysis Runlog For Sequence/QC Batch ID # LB135128

Review By	rubina	Review On	3/21/2025 1:48:54 PM
Supervise By	Iwona	Supervise On	3/21/2025 2:57:40 PM
SubDirectory	LB135128	Test	Reactive Sulfide
STD. NAME	STD REF.#		
ICAL Standard	N/A		
ICV Standard	N/A		
CCV Standard	N/A		
ICSA Standard	N/A		
CRI Standard	N/A		
LCS Standard	N/A		
Chk Standard	W3105,W3114,W3149		

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	PB167221BL	PB167221BL	MB	03/21/25 12:30		rubina	OK
2	Q1592-02	OILY-DEBRIS-COMP	SAM	03/21/25 12:33		rubina	OK
3	Q1592-02DUP	OILY-DEBRIS-COMP	DUP	03/21/25 12:36		rubina	OK
4	Q1597-02	1-CONCRETE-SLAB	SAM	03/21/25 12:38		rubina	OK
5	Q1597-04	2-CONCRETE-SLAB	SAM	03/21/25 12:40		rubina	OK
6	Q1597-06	3-CONCRETE-SLAB	SAM	03/21/25 12:42		rubina	OK
7	Q1605-02	DRUM-SOIL-CUTTIN	SAM	03/21/25 12:45		rubina	OK
8	Q1606-02	CHRT24743	SAM	03/21/25 12:48		rubina	OK
9	Q1606-04	RBR251346	SAM	03/21/25 12:50		rubina	OK
10	Q1606-06	RT4534	SAM	03/21/25 12:52		rubina	OK
11	Q1606-08	RT3025	SAM	03/21/25 12:55		rubina	OK
12	Q1606-10	CHRT28607	SAM	03/21/25 12:58		rubina	OK
13	Q1609-03	WC-SCRN-01-C	SAM	03/21/25 13:00		rubina	OK
14	Q1610-03	SOIL-PILE	SAM	03/21/25 13:03		rubina	OK
15	Q1619-06	TP-1	SAM	03/21/25 13:06		rubina	OK
16	Q1619-08	TP-2	SAM	03/21/25 13:09		rubina	OK
17	Q1619-10	TP-3	SAM	03/21/25 13:12		rubina	OK
18	Q1619-12	TP-4	SAM	03/21/25 13:15		rubina	OK

Instrument ID: TITRAMETRIC

Daily Analysis Runlog For Sequence/QC Batch ID # LB135128

Review By	rubina	Review On	3/21/2025 1:48:54 PM
Supervise By	Iwona	Supervise On	3/21/2025 2:57:40 PM
SubDirectory	LB135128	Test	Reactive Sulfide
STD. NAME	STD REF.#		
ICAL Standard	N/A		
ICV Standard	N/A		
CCV Standard	N/A		
ICSA Standard	N/A		
CRI Standard	N/A		
LCS Standard	N/A		
Chk Standard	W3105,W3114,W3149		

19	Q1619-14	TP-5	SAM	03/21/25 13:18		rubina	OK
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Instrument ID: FILTER/GRAVIMETRIC

Daily Analysis Runlog For Sequence/QC Batch ID # LB135139

Review By	rubina	Review On	3/24/2025 10:54:20 AM
Supervise By	Iwona	Supervise On	3/24/2025 11:09:32 AM
SubDirectory	LB135139	Test	Paint Filter
STD. NAME	STD REF.#		
ICAL Standard	N/A		
ICV Standard	N/A		
CCV Standard	N/A		
ICSA Standard	N/A		
CRI Standard	N/A		
LCS Standard	N/A		
Chk Standard	N/A		

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	Q1606-01	CHRT24743	SAM	03/24/25 08:25		rubina	OK
2	Q1606-01DUP	CHRT24743DUP	DUP	03/24/25 08:33		rubina	OK
3	Q1606-03	RBR251346	SAM	03/24/25 08:40		rubina	OK
4	Q1606-05	RT4534	SAM	03/24/25 08:48		rubina	OK
5	Q1606-07	RT3025	SAM	03/24/25 08:52		rubina	OK
6	Q1606-09	CHRT28607	SAM	03/24/25 09:00		rubina	OK
7	Q1607-01	OR-03-031925	SAM	03/24/25 09:08		rubina	OK
8	Q1609-02	WC-SCRN-01-C	SAM	03/24/25 09:15		rubina	OK
9	Q1610-02	SOIL-PILE	SAM	03/24/25 09:23		rubina	OK
10	Q1611-01	RBR200030	SAM	03/24/25 09:30		rubina	OK
11	Q1614-01	TR-04-032025	SAM	03/24/25 09:37		rubina	OK
12	Q1619-05	TP-1	SAM	03/24/25 09:45		rubina	OK
13	Q1619-07	TP-2	SAM	03/24/25 09:52		rubina	OK
14	Q1619-09	TP-3	SAM	03/24/25 10:00		rubina	OK
15	Q1619-11	TP-4	SAM	03/24/25 10:07		rubina	OK
16	Q1619-13	TP-5	SAM	03/24/25 10:15		rubina	OK

Instrument ID: FLAME

Daily Analysis Runlog For Sequence/QC Batch ID # LB135140

Review By	rubina	Review On	3/25/2025 9:12:15 AM
Supervise By	Iwona	Supervise On	3/25/2025 9:27:14 AM
SubDirectory	LB135140	Test	Ignitability
STD. NAME	STD REF.#		
ICAL Standard	N/A		
ICV Standard	N/A		
CCV Standard	N/A		
ICSA Standard	N/A		
CRI Standard	N/A		
LCS Standard	N/A		
Chk Standard	N/A		

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	Q1606-01	CHRT24743	SAM	03/24/25 15:40		rubina	OK
2	Q1606-01DUP	CHRT24743DUP	DUP	03/24/25 15:47		rubina	OK
3	Q1606-02	CHRT24743	SAM	03/24/25 15:55		rubina	OK
4	Q1606-03	RBR251346	SAM	03/24/25 16:02		rubina	OK
5	Q1606-04	RBR251346	SAM	03/24/25 16:10		rubina	OK
6	Q1606-05	RT4534	SAM	03/24/25 16:17		rubina	OK
7	Q1606-06	RT4534	SAM	03/24/25 16:25		rubina	OK
8	Q1606-07	RT3025	SAM	03/24/25 16:32		rubina	OK
9	Q1606-08	RT3025	SAM	03/24/25 16:40		rubina	OK
10	Q1606-09	CHRT28607	SAM	03/24/25 16:47		rubina	OK
11	Q1606-10	CHRT28607	SAM	03/24/25 16:55		rubina	OK
12	Q1609-03	WC-SCRN-01-C	SAM	03/24/25 17:02		rubina	OK
13	Q1633-01	SLG	SAM	03/24/25 17:10		rubina	OK

Instrument ID: WC SC-3

Daily Analysis Runlog For Sequence/QC Batch ID # LB135147

Review By	jignesh	Review On	3/25/2025 9:40:02 AM
Supervise By	Iwona	Supervise On	3/25/2025 12:00:13 PM
SubDirectory	LB135147	Test	ASTM TS
STD. NAME	STD REF.#		
ICAL Standard	N/A		
ICV Standard	N/A		
CCV Standard	N/A		
ICSA Standard	N/A		
CRI Standard	N/A		
LCS Standard	N/A		
Chk Standard	N/A		

Sr#	SampleID	ClientID	QcType	Date	Comment	Operator	Status
1	LB135147BL	LB135147BL	MB	03/24/25 12:00		jignesh	OK
2	Q1609-04	WC-SCRN-01-C	SAM	03/24/25 12:00		jignesh	OK
3	Q1609-04DUP	WC-SCRN-01-CDUP	DUP	03/24/25 12:00		jignesh	OK

Instrument ID: WC SC-3

Daily Analysis Runlog For Sequence/QC Batch ID # LB135150

Review By	jignesh	Review On	3/24/2025 10:12:53 AM
Supervise By	Iwona	Supervise On	3/24/2025 2:40:57 PM
SubDirectory	LB135150	Test	ASTM Oil and Grease
STD. NAME	STD REF.#		
ICAL Standard	N/A		
ICV Standard	N/A		
CCV Standard	N/A		
ICSA Standard	N/A		
CRI Standard	N/A		
LCS Standard	N/A		
Chk Standard	W3177,M6069,EP2595,WP110826,NA,NA,WP110827,NA,WP110828		

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	LB135150BL	LB135150BL	MB	03/24/25 11:10		jignesh	OK
2	LB135150BS	LB135150BS	LCS	03/24/25 11:10		jignesh	OK
3	Q1609-04	WC-SCRN-01-C	SAM	03/24/25 11:10		jignesh	OK
4	Q1609-04DUP	WC-SCRN-01-CDUP	DUP	03/24/25 11:10		jignesh	OK
5	Q1609-04MS	WC-SCRN-01-CMS	MS	03/24/25 11:10		jignesh	OK
6	Q1609-04MSD	WC-SCRN-01-CMSD	MSD	03/24/25 11:10		jignesh	OK

Instrument ID: SPECTROPHOTOMETER-2

Daily Analysis Runlog For Sequence/QC Batch ID # LB135160

Review By	Niha	Review On	3/25/2025 8:34:40 AM
Supervise By	Iwona	Supervise On	3/25/2025 12:01:28 PM
SubDirectory	LB135160	Test	ASTM COD
STD. NAME	STD REF.#		
ICAL Standard	N/A		
ICV Standard	N/A		
CCV Standard	N/A		
ICSA Standard	N/A		
CRI Standard	N/A		
LCS Standard	N/A		
Chk Standard	WP111522,WP111519,WP111517,WP111520,WP111518,WP111516,WP112412,WP112411,W3127		

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	CAL1	CAL1	CAL	01/22/25 13:30		Niha	OK
2	CAL2	CAL2	CAL	01/22/25 13:30		Niha	OK
3	CAL3	CAL3	CAL	01/22/25 13:31		Niha	OK
4	CAL4	CAL4	CAL	01/22/25 13:31		Niha	OK
5	CAL5	CAL5	CAL	01/22/25 13:32		Niha	OK
6	ICV	ICV	ICV	01/22/25 13:32		Niha	OK
7	ICB	ICB	ICB	01/22/25 13:33		Niha	OK
8	CCV1	CCV1	CCV	03/24/25 17:05		Niha	OK
9	CCB1	CCB1	CCB	03/24/25 17:05		Niha	OK
10	LB135160BL	LB135160BL	MB	03/24/25 17:06		Niha	OK
11	LB135160BS	LB135160BS	LCS	03/24/25 17:06		Niha	OK
12	Q1609-04	WC-SCRN-01-C	SAM	03/24/25 17:07		Niha	OK
13	Q1609-04DUP	WC-SCRN-01-CDUP	DUP	03/24/25 17:07		Niha	OK
14	Q1609-04MS	WC-SCRN-01-CMS	MS	03/24/25 17:08		Niha	OK
15	Q1609-04MSD	WC-SCRN-01-CMSD	MSD	03/24/25 17:08		Niha	OK
16	CCV2	CCV2	CCV	03/24/25 17:09		Niha	OK
17	CCB2	CCB2	CCB	03/24/25 17:09		Niha	OK

Instrument ID: WC SC-3

Daily Analysis Runlog For Sequence/QC Batch ID # LB135168

Review By	jignesh	Review On	3/26/2025 8:59:24 AM
Supervise By	Iwona	Supervise On	3/26/2025 10:37:40 AM
SubDirectory	LB135168	Test	Oil and Grease
STD. NAME	STD REF.#		
ICAL Standard	N/A		
ICV Standard	N/A		
CCV Standard	N/A		
ICSA Standard	N/A		
CRI Standard	N/A		
LCS Standard	N/A		
Chk Standard	W3177,NA,EP2595,NA,NA,E2865,WP110829,NA,WP110830		

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	LB135168BL	LB135168BL	MB	03/25/25 09:30		jignesh	OK
2	LB135168BS	LB135168BS	LCS	03/25/25 09:30		jignesh	OK
3	Q1609-02	WC-SCRN-01-C	SAM	03/25/25 09:30		jignesh	OK
4	Q1626-01	CO-32-1	SAM	03/25/25 09:30		jignesh	OK
5	Q1632-01	PIER-1-2	SAM	03/25/25 09:30		jignesh	OK
6	Q1632-01DUP	PIER-1-2DUP	DUP	03/25/25 09:30		jignesh	OK
7	Q1632-01MS	PIER-1-2MS	MS	03/25/25 09:30		jignesh	OK
8	Q1632-01MSD	PIER-1-2MSD	MSD	03/25/25 09:30		jignesh	OK

Instrument ID: KONELAB

Daily Analysis Runlog For Sequence/QC Batch ID # LB135188

Review By	Review On
Supervise By	Supervise On
SubDirectory	LB135188
Test	ASTM Ammonia
STD. NAME	STD REF.#
ICAL Standard	WP112470
ICV Standard	WP112472
CCV Standard	WP112471
ICSA Standard	N/A
CRI Standard	N/A
LCS Standard	WP112335
Chk Standard	WP112163,WP111745,WP111385,WP111660

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	0.0PPM	0.0PPM	CAL1	03/26/25 08:31		rubina	OK
2	0.1PPM	0.1PPM	CAL2	03/26/25 08:31		rubina	OK
3	0.2PPM	0.2PPM	CAL3	03/26/25 08:31		rubina	OK
4	0.4PPM	0.4PPM	CAL4	03/26/25 08:31		rubina	OK
5	1.0PPM	1.0PPM	CAL5	03/26/25 08:31		rubina	OK
6	1.3PPM	1.3PPM	CAL6	03/26/25 08:31		rubina	OK
7	2.0PPM	2.0PPM	CAL7	03/26/25 08:31		rubina	OK
8	ICV1	ICV1	ICV	03/26/25 09:12		rubina	OK
9	ICB1	ICB1	ICB	03/26/25 09:12		rubina	OK
10	CCV1	CCV1	CCV	03/26/25 09:12		rubina	OK
11	CCB1	CCB1	CCB	03/26/25 09:12		rubina	OK
12	RL	RL	SAM	03/26/25 09:12		rubina	OK
13	PB167282BL	PB167282BL	MB	03/26/25 09:12		rubina	OK
14	PB167282BS	PB167282BS	LCS	03/26/25 09:23		rubina	OK
15	PB167282TB	PB167282TB	MB	03/26/25 09:23		rubina	OK
16	Q1609-04	WC-SCRN-01-C	SAM	03/26/25 09:23		rubina	OK
17	Q1609-04DUP	WC-SCRN-01-CDUP	DUP	03/26/25 09:23		rubina	OK
18	Q1609-04MS	WC-SCRN-01-CMS	MS	03/26/25 09:23		rubina	OK

Instrument ID: KONELAB

Daily Analysis Runlog For Sequence/QC Batch ID # LB135188

Review By		Review On	
Supervise By		Supervise On	
SubDirectory	LB135188	Test	ASTM Ammonia
STD. NAME	STD REF.#		
ICAL Standard	WP112470		
ICV Standard	WP112472		
CCV Standard	WP112471		
ICSA Standard	N/A		
CRI Standard	N/A		
LCS Standard	WP112335		
Chk Standard	WP112163,WP111745,WP111385,WP111660		

19	Q1609-04MSD	WC-SCRN-01-CMSD	MSD	03/26/25 09:23		rubina	OK
20	CCV2	CCV2	CCV	03/26/25 09:30		rubina	OK
21	CCB2	CCB2	CCB	03/26/25 09:30		rubina	OK

Prep Standard - Chemical Standard Summary

Order ID : Q1609

Test : ASTM Ammonia,ASTM COD,ASTM Oil and Grease,ASTM TS,Corrosivity,Ignitability,Oil and Grease,Paint Filter,Percent Solids,pH,Reactive Cyanide,Reactive Sulfide,TS,TVS

Prepbatch ID : PB167221,PB167241,PB167282,

Sequence ID/Qc Batch ID: LB135108,LB135109,LB135115,LB135116,LB135117,LB135128,LB135139,LB135140,LB135147,LB13

Standard ID :

EP2595,WP110103,WP110149,WP110150,WP110335,WP110826,WP110827,WP110828,WP110829,WP110830,WP11004,WP111035,WP111294,WP111296,WP111317,WP111318,WP111325,WP111385,WP111514,WP111515,WP111516,WP111517,WP111518,WP111519,WP111520,WP111522,WP111660,WP111745,WP112163,WP112334,WP112335,WP112393,WP112394,WP112395,WP112396,WP112397,WP112398,WP112399,WP112400,WP112401,WP112402,WP112409,WP112410,WP112411,WP112412,WP112470,WP112471,WP112472,

Chemical ID :

E2865,E3551,E3788,M5673,M6069,M6121,W1992,W1993,W2666,W2668,W2700,W2725,W2784,W2817,W2858,W2871,W2882,W2926,W3009,W3019,W3071,W3072,W3082,W3093,W3094,W3105,W3107,W3112,W3113,W3114,W3127,W3132,W3138,W3139,W3140,W3149,W3154,W3155,W3161,W3169,W3174,W3177,

Extractions STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3923	Baked Sodium Sulfate	EP2595	03/17/2025	07/01/2025	RUPESHKUMAR SHAH	Extraction_SCALE_2 (EX-SC-2)	None	Riteshkumar Patel 03/17/2025

FROM 4000.00000gram of E3551 = Final Quantity: 4000.000 gram

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
539	CN BUFFER	WP110103	10/08/2024	04/08/2025	Rubina Mughal	WETCHEM_SCALE_5 (WC SC-5)	None	Iwona Zarych 10/08/2024

FROM 138.00000gram of W2668 + 862.00000ml of W3112 = Final Quantity: 1000.000 ml



<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
153	Ammonia Stock Std. (1000 ppm)	WP110149	10/11/2024	04/08/2025	Rubina Mughal	WETCHEM_SCALE_5 (WC SC-5)	None	Iwona Zarych 10/14/2024
<u>FROM</u>	3.81900gram of W1993 + 996.18100ml of W3112 = Final Quantity: 1000.000 ml							

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
1895	Ammonia Stock Std, 1000PPM-SS	WP110150	10/11/2024	04/08/2025	Rubina Mughal	WETCHEM_S CALE_5 (WC SC-5)	None	Iwona Zarych 10/14/2024
<u>FROM</u>	3.81900gram of W1992 + 996.18100ml of W3112 = Final Quantity: 1000.000 ml							

Wet Chemistry STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
1597	0.04 N H2SO4	WP110335	10/22/2024	04/22/2025	Rubina Mughal	None	WETCHEM_FIPETTE_3 (WC)	Iwona Zarych 10/22/2024

FROM 1.00000ml of M5673 + 999.00000ml of W3112 = Final Quantity: 1000.000 ml

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

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



<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
2470	1664A SPIKING SOLN	WP110827	11/22/2024	04/23/2025	Jignesh Parikh	WETCHEM_S CALE_8 (WC SC-7)	None	Iwona Zarych 11/22/2024
<u>FROM</u>	1000.00000ml of E3788 + 4.00000gram of W2817 + 4.00000gram of W2871 = Final Quantity: 1000.000 ml							

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3374	1664A QCS spiking solution-SS	WP110828	11/22/2024	04/23/2025	Jignesh Parikh	WETCHEM_S CALE_8 (WC SC-7)	None	Iwona Zarych 11/22/2024
<u>FROM</u>	1000.00000ml of E3788 + 4.00000gram of W3009 + 4.00000gram of W3082 = Final Quantity: 1000.000 ml							



<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3931	Spiking std for 9071B	WP110829	11/22/2024	04/23/2025	Jignesh Parikh	WETCHEM_SCALE_8 (WC SC-7)	None	Iwona Zarych 11/22/2024
<u>FROM</u> 1.00000gram of W2817 + 1.00000gram of W2871 + 1000.00000ml of E3788 = Final Quantity: 1000.000 ml								

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3873	Spiking solution for 9071B - SS	WP110830	11/22/2024	04/23/2025	Jignesh Parikh	WETCHEM_SCALE_8 (WC SC-7)	None	Iwona Zarych 11/22/2024
<u>FROM</u> 1.00000gram of W3009 + 1.00000gram of W3082 + 1000.00000L of E3788 = Final Quantity: 1000.000 ml								

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
160	0.5M ZINC ACETATE	WP111004	12/09/2024	05/13/2025	Rubina Mughal	WETCHEM_SCALE_8 (WC-7)	WETCHEM_PIPETTE_3 (WC)	Iwona Zarych 12/09/2024
<u>FROM</u> 0.88900L of W3112 + 1.00000ml of M6121 + 110.00000gram of W2926 = Final Quantity: 1000.000 ml								

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
607	PYRIDINE-BARBITURIC ACID	WP111035	12/09/2024	04/30/2025	Niha Farheen Shaik	WETCHEM_SCALE_5 (WCS-5)	Glass Pipette-A	Iwona Zarych 12/10/2024
<u>FROM</u>	145.00000ml of W3112 + 15.00000gram of W2882 + 15.00000ml of M6121 + 75.00000ml of W3019 = Final Quantity: 250.000 ml							



<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
11	Sodium hydroxide absorbing solution 0.25 N	WP111294	01/07/2025	07/07/2025	Niha Farheen Shaik	WETCHEM_SCALE_5 (WCS-5)	None	Iwona Zarych 01/07/2025
<u>FROM</u>	21.00000L of W3112 + 210.00000gram of W3113 = Final Quantity: 21.000 L							

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3371	Cyanide LCS Spike Solution, 5PPM	WP111296	01/07/2025	07/07/2025	Niha Farheen Shaik	None	WETCHEM_PIPETTE_3 (WC)	Iwona Zarych 01/07/2025
<u>FROM</u> 1.00000ml of W3138 + 199.00000ml of WP111294 = Final Quantity: 200.000 ml								



<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
1796	NaOH, 0.1N	WP111317	01/09/2025	07/09/2025	Rubina Mughal	WETCHEM_SCALE_7 (WCS-6)	None	Iwona Zarych 01/09/2025
<u>FROM</u> 4.00000gram of W3113 + 996.00000ml of W3112 = Final Quantity: 1000.000 ml								

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
1471	NaOH Solution, 6N	WP111318	01/09/2025	07/09/2025	Rubina Mughal	WETCHEM_SCALE_7 (WCS-6)	None	Iwona Zarych 01/09/2025
<u>FROM</u> 240.00000gram of W3113 + 760.00000ml of W3112 = Final Quantity: 1000.000 ml								

Wet Chemistry STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
1494	BORATE BUFFER	WP111325	01/09/2025	07/09/2025	Rubina Mughal	None	None	Iwona Zarych
								01/09/2025

FROM 100.00000L of W3112 + 9.50000gram of W2700 + 88.00000ml of WP111317 = Final Quantity: 100.000 L

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
290	Phenol reagent for Ammonia	WP111385	01/13/2025	07/13/2025	Rubina Mughal	WETCHEM_S CALE_8 (WC SC-7)	None	Iwona Zarych
								01/13/2025

FROM 3.20000gram of W3113 + 8.30000gram of W2858 + 88.80000ml of W3112 = Final Quantity: 100.000 ml



<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
2456	COD Stock std, 1000ppm	WP111514	01/22/2025	01/29/2025	Niha Farheen Shaik	WETCHEM_SCALE_5 (WCS-5)	None	Iwona Zarych 01/22/2025
<u>FROM</u>	0.08500gram of W3169 + 100.00000ml of W3112 = Final Quantity: 100.000 ml							

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
2457	COD Stock std-SS, 1000ppm	WP111515	01/22/2025	01/29/2025	Niha Farheen Shaik	WETCHEM_SCALE_5 (WC SC-5)	None	Iwona Zarych 01/22/2025
<u>FROM</u> 0.08500gram of W2784 + 100.00000ml of W3112 = Final Quantity: 100.000 ml								

Wet Chemistry STANDARD PREPARATION LOG

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

FROM 10.00000ml of W3112 = Final Quantity: 10.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
138	COD calibration std. 10 ppm	WP111517	01/22/2025	01/29/2025	Niha Farheen Shaik	None	WETCHEM_FIPETTE_3 (WC)	Iwona Zarych 01/22/2025

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



<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
137	COD calibration std. 50 ppm	WP111518	01/22/2025	01/29/2025	Niha Farheen Shaik	None	WETCHEM_PIPETTE_3	Iwona Zarych 01/22/2025
<u>FROM</u> 9.50000ml of W3112 + 0.50000ml of WP111514 = Final Quantity: 10.000 ml								

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
136	COD calibration std. 100 ppm	WP111519	01/22/2025	01/29/2025	Niha Farheen Shaik	None	WETCHEM_PIPETTE_3	Iwona Zarych
<u>FROM</u> 9.00000ml of W3112 + 1.00000ml of WP111514 = Final Quantity: 10.000 ml								



<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
135	COD calibration std. 150 ppm	WP111520	01/22/2025	01/29/2025	Niha Farheen Shaik	None	WETCHEM_PIPETTE_3	Iwona Zarych 01/22/2025
FROM 8.50000ml of W3112 + 1.50000ml of WP111514 = Final Quantity: 10.000 ml								

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
2459	COD ICV-LCS std, 50ppm	WP111522	01/22/2025	01/29/2025	Niha Farheen Shaik	None	WETCHEM_PIPETTE_3 (WC)	Iwona Zarych 01/22/2025
<u>FROM</u> 9.50000ml of W3112 + 0.50000ml of WP111515 = Final Quantity: 10.000 ml								



<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
635	EDTA BUFFER FOR AMMONIA	WP111660	01/28/2025	07/28/2025	Rubina Mughal	WETCHEM_S CALE_8 (WC SC-7)	None	Iwona Zarych 01/28/2025
<u>FROM</u> 5.50000gram of W3113 + 50.00000gram of W3132 + 950.00000ml of W3112 = Final Quantity: 1000.000 ml								

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
289	Sodium Hypochlorite for Ammonia	WP111745	02/03/2025	07/31/2025	Rubina Mughal	None	None	Iwona Zarych 02/03/2025
<u>FROM</u> 50.00000ml of W3112 + 50.00000ml of W3174 = Final Quantity: 100.000 ml								



<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
740	sodium nitroferricyanide for ammonia	WP112163	02/27/2025	03/27/2025	Rubina Mughal	WETCHEM_SCALE_5 (WCS-5)	None	Iwona Zarych 03/04/2025
<u>FROM</u> 0.05000gram of W2666 + 99.95000ml of W3112 = Final Quantity: 100.000 ml								

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
1322	Ammonia Intermediate Std, 50PPM	WP112334	03/18/2025	04/08/2025	Rubina Mughal	None	WETCHEM_PIPETTE_3 (WC)	Iwona Zarych 03/18/2025
<u>FROM</u> 95.00000ml of W3112 + 5.00000ml of WP110149 = Final Quantity: 100.000 ml								



<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
1639	Ammonia Intermediate Std-Second source, 50PPM	WP112335	03/18/2025	04/08/2025	Rubina Mughal	None	WETCHEM_PIPETTE_3	Iwona Zarych 03/18/2025
<u>FROM</u> 95.00000ml of W3112 + 5.00000ml of WP110150 = Final Quantity: 100.000 ml								

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3456	Cyanide Intermediate Working Std, 5PPM	WP112393	03/20/2025	03/21/2025	Niha Farheen Shaik	None	WETCHEM_PIPETTE_3	Iwona Zarych 03/20/2025
<u>FROM</u> 0.25000ml of W3154 + 49.75000ml of WP111294 = Final Quantity: 50.000 ml								

Wet Chemistry STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
4	Calibration standard 500 ppb	WP112394	03/20/2025	03/21/2025	Niha Farheen Shaik	None	Glass Pipette-A	Iwona Zarych 03/20/2025

FROM 45.00000ml of WP111294 + 5.00000ml of WP112393 = Final Quantity: 50.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3761	Calibration-CCV CN Standard 250 ppb	WP112395	03/20/2025	03/21/2025	Niha Farheen Shaik	None	WETCHEM_FIPETTE_3 (WC)	Iwona Zarych 03/20/2025

FROM 2.50000ml of WP112393 + 47.50000ml of WP111294 = Final Quantity: 50.000 ml

Wet Chemistry STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
6	Calibration Standard 100 ppb	WP112396	03/20/2025	03/21/2025	Niha Farheen Shaik	None	WETCHEM_FIPETTE_3 (WC)	Iwona Zarych 03/20/2025
FROM 1.00000ml of WP112393 + 49.00000ml of WP111294 = Final Quantity: 50.000 ml								

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
7	Calibration Standard 50 ppb	WP112397	03/20/2025	03/21/2025	Niha Farheen Shaik	None	WETCHEM_FIPETTE_3 (WC)	Iwona Zarych 03/20/2025
FROM 0.50000ml of WP112393 + 49.50000ml of WP111294 = Final Quantity: 50.000 ml								

Wet Chemistry STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
8	Calibration Standard 10 ppb	WP112398	03/20/2025	03/21/2025	Niha Farheen Shaik	None	WETCHEM_FIPETTE_3 (WC)	Iwona Zarych 03/20/2025
FROM 1.00000ml of WP112394 + 49.00000ml of WP111294 = Final Quantity: 50.000 ml								

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
9	Calibration Standard 5 ppb	WP112399	03/20/2025	03/21/2025	Niha Farheen Shaik	None	WETCHEM_FIPETTE_3 (WC)	Iwona Zarych 03/20/2025
FROM 0.50000ml of WP112394 + 49.50000ml of WP111294 = Final Quantity: 50.000 ml								

Wet Chemistry STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
167	0 ppb CN calibration std	WP112400	03/20/2025	03/21/2025	Niha Farheen Shaik	None	None	Iwona Zarych
								03/20/2025

FROM 50.00000ml of WP111294 = Final Quantity: 50.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
1582	Chloramine T solution, 0.014M	WP112401	03/20/2025	03/21/2025	Niha Farheen Shaik	WETCHEM_S CALE_5 (WC SC-5)	None	Iwona Zarych
								03/20/2025

FROM 0.08000gram of W3139 + 20.00000ml of W3112 = Final Quantity: 20.000 ml

Wet Chemistry STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
2168	RCN ICV STD, 100 PPB	WP112402	03/20/2025	03/21/2025	Niha Farheen Shaik	None	WETCHEM_FIPETTE_3 (WC)	Iwona Zarych 03/20/2025

FROM 1.00000ml of WP111296 + 49.00000ml of WP111294 = Final Quantity: 50.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
2456	COD Stock std, 1000ppm	WP112409	03/21/2025	03/28/2025	Niha Farheen Shaik	WETCHEM_SCALE_5 (WC SC-5)	None	Iwona Zarych 03/21/2025

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



<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
2457	COD Stock std-SS, 1000ppm	WP112410	03/21/2025	03/28/2025	Niha Farheen Shaik	WETCHEM_SCALE_5 (WCS-5)	None	Iwona Zarych 03/21/2025
<u>FROM</u>	0.08500gram of W2784 + 100.00000ml of W3112 = Final Quantity: 100.000 ml							

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
2458	COD CCV std, 50ppm	WP112411	03/21/2025	03/28/2025	Niha Farheen Shaik	None	WETCHEM_PIPETTE_3 (WC)	Iwona Zarych 03/21/2025
<u>FROM</u> 9.50000ml of W3112 + 0.50000ml of WP112409 = Final Quantity: 10.000 ml								



<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
2459	COD ICV-LCS std, 50ppm	WP112412	03/21/2025	03/28/2025	Niha Farheen Shaik	None	WETCHEM_FIPETTE_3	Iwona Zarych 03/21/2025

FROM	(WC)
9.50000ml of W3112 + 0.50000ml of WP112410 = Final Quantity: 10.000 ml	

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
275	Ammonia Calibration Std. (2 ppm)	WP112470	03/26/2025	03/27/2025	Rubina Mughal	None	WETCHEM_FIPETTE_3	Iwona Zarych 03/26/2025

FROM	48.00000ml of W3112 + 2.00000ml of WP112334 = Final Quantity: 50.000 ml	(WC)
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Wet Chemistry STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
285	Ammonia CCV Std. (1 ppm)	WP112471	03/26/2025	03/27/2025	Rubina Mughal	None	WETCHEM_F IPETTE_3 (WC)	Iwona Zarych 03/26/2025
FROM 49.00000ml of W3112 + 1.00000ml of WP112334 = Final Quantity: 50.000 ml								

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
286	Ammonia ICV Std. (1 ppm)	WP112472	03/26/2025	03/27/2025	Rubina Mughal	None	WETCHEM_F IPETTE_3 (WC)	Iwona Zarych 03/26/2025
FROM 49.00000ml of W3112 + 1.00000ml of WP112335 = Final Quantity: 50.000 ml								

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-3382-05 / Sand, Purified (cs/4x2.5kg)	0000243821	06/30/2025	04/30/2020 / RAJESH	04/28/2020 / RAJESH	E2865

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-9254-03 / Acetone, Ultra Resi (cs/4x4L)	23H1462005	04/23/2025	08/13/2024 / Rajesh	08/13/2024 / Rajesh	E3788

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

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	J0660-1 / AMMONIUM CHLORIDE, ACS, 500G	WL13B	04/08/2025	04/08/2015 / apatel	04/08/2015 / apatel	W1992

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	J0660-1 / AMMONIUM CHLORIDE, ACS, 500G	XE09B	04/08/2025	04/08/2015 / apatel	04/08/2015 / apatel	W1993

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

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

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	J3568-1 / Sodium Borate, 500 gms	2019111354	04/23/2025	04/23/2020 / apatel	03/11/2020 / apatel	W2700

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	EMD-FX0410-5 / FORMALDEHYDE SOLUTION 450ML	60045	06/22/2025	08/19/2024 / lwona	06/22/2020 / apatel	W2725

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	P243-500 / Potassium Hydrogen Phthalate, 500 gms	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 Supply, Inc.	A12244 / Stearic acid, 98%, 100 g	U20E006	04/02/2026	04/02/2021 / apatel	04/02/2021 / apatel	W2817

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	P1060-10 / PHENOL, ACS, 500G	M13H048	01/07/2026	07/07/2021 / apatel	07/07/2021 / apatel	W2858

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

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	EM-BX0035-3 / Barbituric Acid, 100 gms	1.00132.0100	04/30/2025	12/07/2021 /	11/30/2021 / apatel	W2882

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	J4296-1 / ZINC ACETATE, DIHYD, CRYST, 5,500G	383058	07/05/2027	07/05/2022 / ketankumar	07/05/2022 / ketankumar	W2926

CHEMICAL RECEIPT LOG BOOK

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

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

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	AL14455-3 / buffer solution pH 7 yellow	4308H30	07/31/2025	01/02/2024 / JIGNESH	12/06/2023 / lwona	W3071

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	AL14940-1 / Buffer Solution, PH12 (500ml)	2310P21	04/30/2025	01/02/2024 / JIGNESH	12/07/2023 / lwona	W3072

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

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	566002 / BUFFER PH 7.00 GREEN 1PINT PK6	44001f99	12/31/2025	04/03/2024 / jignesh	04/02/2024 / jignesh	W3093

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	1601-1 / PH 10.01 BUFFER,COLOR CD 475ML	4310g83	03/31/2025	04/03/2024 / jignesh	04/02/2024 / jignesh	W3094

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,4LITRE	4403S13	09/30/2025	04/22/2024 / lwona	04/22/2024 / lwona	W3105

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	AL14055-3 / PH 4 BUFFER SOLUTION	AL14055-3	02/27/2026	09/05/2024 / jignesh	05/13/2024 / jignesh	W3107

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

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

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

CHEMICAL RECEIPT LOG BOOK

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	13821	10/31/2027	03/21/2025 / Niha	07/25/2024 / Iwona	W3127

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	PC05050-1 / EDTA, disodium salt, dihydrate 1 lb	2ND0156	07/10/2026	07/26/2024 / Iwona	07/26/2024 / Iwona	W3132

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	LC135457 / Cyanide Standard, 1000 PPM, Second Source	44080060	01/30/2025	09/06/2024 / Iwona	08/28/2024 / Iwona	W3138

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

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	140444 / TEST PAPERS,PH 0-14,.5 SENSI,100PK	10D0142	09/17/2029	09/17/2024 / Iwona	09/17/2024 / Iwona	W3140

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

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	RC2543-4 / CYANIDE STD 1000PPM 4OZ	1411J58	05/31/2025	12/02/2024 / lwona	12/02/2024 / lwona	W3154

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	140730 / TEST PAPER,POT.IOD-STRCH,P K100,CS12	14-860	12/02/2029	12/02/2024 / lwona	12/02/2024 / lwona	W3155

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	AL13850-1 / Buffer Solution, PH2 (500ml)	2411E26	10/31/2026	12/09/2024 / lwona	12/09/2024 / lwona	W3161

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

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	J9416-1 / Sodium Hypochlorite 500 ml	2501J28	07/31/2025	01/24/2025 / lwona	01/24/2025 / lwona	W3174

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



Date of Release: 12/18/2013

Product: Ammonium Chloride GR ACS

Catalog No.: AX1270 all
size codes

Grade: Meets ACS Specifications

CAS #: 12125-02-9

Country of Origin: India

FW: 53.49

Lot No.: WL13B



Characteristic	Requirement		Results	UOM
	Minimum	Maximum		
Assay (argentometric)	99.5		99.9	%
Calcium (Ca)		0.001	0.0001	%
Form	White crystals		White crystals	
Heavy metals (as Pb)		5	5	ppm
Identification	To pass test		Passes	
Insoluble matter		0.005	0.002	%
Iron (Fe)		2	2	ppm
Loss on drying (105 C)		0.5	0.21	%
Magnesium (Mg)		5	0.6	ppm
pH of a 5% solution at 25 C	4.5	5.5	4.76	
Phosphate (PO4)		2	2	ppm
Residue after ignition		0.01	0.002	%
Sulfate (SO4)		0.002	0.002	%

Joe Schoellkopf

Quality Control Manager

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Certificate of Analysis



Date of Release: 5/12/2014

Product: Ammonium Chloride GR ACS

Catalog No.: AX1270 all
size codes

Grade: Meets ACS Specifications

CAS #: 12125-02-9

Country of Origin: India

FW: 53.49

Lot No.: XE09B



Characteristic	Requirement		Results	UOM
	Minimum	Maximum		
Assay (argentometric)	99.5		99.8	%
Calcium (Ca)		0.001	0.0001	%
Form	White crystals		White crystals	
Heavy metals (as Pb)		5	5	ppm
Identification	To pass test		Passes	
Insoluble matter		0.005	0.002	%
Iron (Fe)		2	2	ppm
Loss on drying (105 C)		0.5	0.22	%
Magnesium (Mg)		5	0.7	ppm
pH of a 5% solution at 25 C	4.5	5.5	4.95	
Phosphate (PO4)		2	2	ppm
Residue after ignition		0.01	0.002	%
Sulfate (SO4)		0.002	0.002	%

Joe Schoellkopf

Quality Control Manager

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Hexadecane, 99.0%



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

Certificate of Analysis

Test	Specification	Result
Assay ($\text{CH}_3(\text{CH}_2)_{14}\text{CH}_3$) (by GC)	$\geq 99.0 \%$	99.3
Infrared Spectrum	Passes Test	PT

For Laboratory, Research or Manufacturing Use

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


Jamie Ethier
Vice President Global Quality

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

W2858 Received by AP on 07/07/2021

Product No.: 33213
Product: Phenol, ACS, 99+%, stab.
Lot No.: M13H048

Test	Limits	Results
Assay	99.0 % min	99.8 %
Freezing point	40.5°C min	40.5 °C
Clarity of solution	To pass test	Passes
Residue after evaporation	0.05 % max	< 0.05 %
Water	0.5 % max	0.2 %

Retest date: January 7, 2026

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W2666 Recived on 02/10/2020 by AP

Product No.: 87683

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

Lot No.: W12F013

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

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

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

Product Specification

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

Date Of Print: 11/30/2023

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


W3071
Rec 12/6/23

Certificate of Analysis 12

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

Lot Number: 4308H30

Product Number: 1551

Manufacture Date: AUG 09, 2023

Expiration Date: JUL 2025

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

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

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

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

Test	Specification	Result
Appearance	Yellow liquid	Passed

*Not a certified value.

Test	Certified Value	Uncertainty	NIST SRM#
pH at 25°C (Method: SQCP027, SQCP033)	7.002	0.02	186-I-g, 186-II-g, 191d

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

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

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

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



Paul Brandon (08/09/2023)

Production Manager

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

This product was tested in an ISO 17025 Accredited Laboratory

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

W3009
rec. 2/27/2023 12

Product Name:

Hexadecane - ReagentPlus®, 99%

Certificate of Analysis

Product Number:

H6703

Batch Number:

SHBP8192

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

Brand:

SIAL

CAS Number:

544-76-3

MDL Number:

MFCD00008998

Formula:

C16H34

Formula Weight:

226.44 g/mol

Quality Release Date:

04 AUG 2022

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


Larry Coers, Director

Quality Control

Sheboygan Falls, WI US

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



W3019
rec 4/3/23

3050 Spruce Street, Saint Louis, MO 63103, USA

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

Certificate of Analysis

Product Name:

Pyridine - anhydrous, 99.8%

Product Number:

270970

Batch Number:

SHBQ2113

Brand:

SIAL

CAS Number:

110-86-1

MDL Number:

MFCD00011732

Formula:

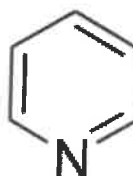
C₅H₅N

Formula Weight:

79.10 g/mol

Quality Release Date:

15 DEC 2022



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


Larry Coers, Director
Quality Control
Sheboygan Falls, WI US

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





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W 3072
REC. 12/01/23
12

Certificate of Analysis

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

Lot Number: 2310P21

Product Number: 1615

Manufacture Date: OCT 24, 2023

Expiration Date: APR 2025

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

°C	15	20	25	30	35	40
pH	12.35	12.17	11.99	11.78	11.62	11.46

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

Test	Specification	Result
Appearance	Colorless liquid	Passed

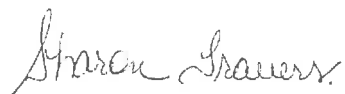
*Not a certified value.

Test	Certified Value	Uncertainty	NIST SRM#
pH at 25°C (Method: SQCP027, SQCP033)	12.005	0.02	186-I-g, 186-II-g, 191d

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

Part Number	Size / Package Type	Shelf Life (Unopened Container)
1615-1	4 L natural poly	18 months
1615-16	500 mL clear PET-G	18 months
1615-32	1 L natural poly	18 months
1615-5	20 L Cubitainer®	18 months

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



Sharon Travers (10/24/2023)

Operations Manager

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Certificate of Analysis

Date of Release: 2/26/2020

Name: Formaldehyde Solution
GR ACS
Meets ACS Specifications

Item No: FX0410 all size codes

Lot / Batch No: 60045

Country of Origin: USA

Characteristic	Requirement		Results	Units
	Min.	Max.		
Assay	36.5	38.0	36.71	%
Chloride (Cl)		5	<5	ppm
Color (APHA)		10	<10	
Form			Passes test	
Heavy metals (as Pb)		5	<5	ppm
Iron (Fe)		5	0.6	ppm
Residue after ignition		0.005	<0.0050	%
Sulfate (SO ₄)		0.002	<0.0020	%
Titrate acid		0.006	<0.0060	meq/g

Heather Sinn,

Quality Control Manager

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EMD Millipore Corporation, an affiliate of Merck KGaA, Darmstadt, Germany
290 Concord Road
Billerica, MA 01821
U.S.A

The life science business of Merck KGaA, Darmstadt, Germany operates as MilliporeSigma in the U.S. and Canada.

Certificate Of Analysis



Date of Release: 11/14/2019

W2700 Recived by AP on 3/11/2020

Name: **Sodium Borate, Decahydrate**

ACS

Item No: **SX0355 All Sizes**

Lot / Batch No: **2019111354**

Country of Origin: **India**

Item	Specifications	Analysis
Assay (Na ₂ B ₄ O ₇ • 10H ₂ O)	99.5 - 105.0%	101.7%
Calcium (Ca)	0.005% max.	0.003%
Chloride (Cl)	0.001% max.	<0.001%
Color	White	Passes Test
Form	Crystals	Passes Test
Heavy Metals (as Pb)	0.001% max.	<0.001%
Insoluble Matter	0.005% max.	0.002%
Iron (Fe)	5 ppm max.	<5 ppm
pH of a 0.01 M solution at 25C	9.15 - 9.20	9.17
Phosphate (PO ₄)	0.001% max.	<0.001%
Sulfate (SO ₄)	0.005% max.	<0.005%

Joe Schoellkopf

Quality Control Manager

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EMD Millipore Corporation

400 Summit Drive
Burlington, MA 01803
U.S.A.

Form number: 00005624CA, Rev. 2.0

Certificate of Analysis

ThermoFisher
SCIENTIFIC

Certificate of Analysis

1 Reagent Lane

Fair Lawn, NJ 07410

201.796.7100 tel

201.796.1329 fax

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Standard ISO9001:2015 by SAI Global Certificate Number CERT – 0120632

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Catalog Number	P243	Quality Test / Release Date	06/19/2020
Lot Number	201089		
Description	POTASSIUM HYDROGEN PHTHALATE, ACIDIMETRIC STANDARD, A.C.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 - Quality Control Manager – Fair Lawn

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

*Based on suggested storage condition.

Sand
Purified
Washed and Ignited



Material No.: 3382-05
Batch No.: 0000243821
Manufactured Date: 2018/04/09
Retest Date: 2025/04/07
Revision No: 1

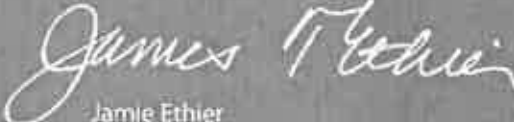
Certificate of Analysis

Test	Specification	Result
Substances Soluble in HCl	$\leq 0.16\%$	0.01

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

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

E 2865


Jamie Ethier
Vice President Global Quality

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

Avantor Performance Materials, LLC
100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone: 610.386.1700



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CP 64070
TEL +52 81 13 52 57 57
www.pqm.com.mx

CERTIFICATE OF ANALYSIS

PRODUCT :	SODIUM SULFATE CRYSTALS ANHYDROUS		
QUALITY :	ACS (CODE RMB3375)	FORMULA :	Na ₂ SO ₄
SPECIFICATION NUMBER :	6399	RELEASE DATE:	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)	Max. 5 ppm	<5 ppm
Phosphate (PO ₄)	Max. 0.001%	<0.001 %
Heavy metals (as Pb)	Max. 5 ppm	<5 ppm
Iron (Fe)	Max. 0.001%	<0.001 %
Calcium (Ca)	Max. 0.01%	0.002 %
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 foreign 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%	2.5 %
Through US Standard No. 100 sieve	Max. 10%	0.1 %

COMMENTS

QC: PhC Irma Belmares

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

Recd. by R3 on 7/24/23 E 3551

RC-02-01, Ed. 3

Acetone

BAKER RESI-ANALYZED® Reagent
For Organic Residue Analysis

Avantor™



Material No.: 9254-03
Batch No.: 23H1462005
Manufactured Date: 2023-07-26
Expiration Date: 2026-07-25
Revision No.: 0

Certificate of Analysis

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

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

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

Recd by RP on 8/13/24

E 3788

Ken Koehnlein
Sr. Manager, Quality Assurance

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

 **avantor**™



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

Certificate of Analysis

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

>>> Continued on page 2 >>>

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

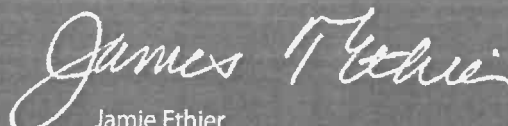


Material No.: 9673-33
Batch No.: 23D2462010

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

For Laboratory, Research, or Manufacturing Use

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


Jamie Ethier
Vice President Global Quality



Certificate of Analysis

Product information

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

Confirmation

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

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



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



R → 16/13/24
Met dig

M 6121

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 Cl ₂)	<= 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
Trace Impurities - Cadmium (Cd)	<= 1.0 ppb	< 0.3
Trace Impurities - Calcium (Ca)	<= 50.0 ppb	29.7
Trace Impurities - Chromium (Cr)	<= 1.0 ppb	< 0.4
Trace Impurities - Cobalt (Co)	<= 1.0 ppb	< 0.3
Trace Impurities - Copper (Cu)	<= 1.0 ppb	< 0.1
Trace Impurities - Gallium (Ga)	<= 1.0 ppb	< 0.2

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

Avantor Performance Materials, LLC

100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone: 610.386.1700

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
Trace Impurities – Potassium (K)	<= 9.0 ppb	< 2.0
Trace Impurities – Selenium (Se), For Information Only	ppb	1.0
Trace Impurities – Silicon (Si)	<= 100.0 ppb	< 10.0
Trace Impurities – Silver (Ag)	<= 1.0 ppb	< 0.3
Trace Impurities – Sodium (Na)	<= 100.0 ppb	< 5.0
Trace Impurities – Strontium (Sr)	<= 1.0 ppb	< 0.2
Trace Impurities – Tantalum (Ta)	<= 1.0 ppb	< 0.9
Trace Impurities – Thallium (Tl)	<= 5.0 ppb	< 2.0
Trace Impurities – Tin (Sn)	<= 5.0 ppb	< 0.8
Trace Impurities – Titanium (Ti)	<= 1.0 ppb	0.2
Trace Impurities – Vanadium (V)	<= 1.0 ppb	< 0.2
Trace Impurities – Zinc (Zn)	<= 5.0 ppb	0.3
Trace Impurities – Zirconium (Zr)	<= 1.0 ppb	< 0.1

For Laboratory, Research or Manufacturing Use

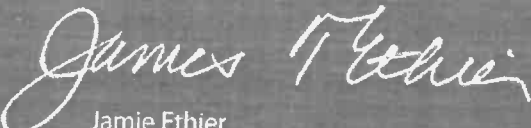
Product Information (not specifications):

Appearance (clear, fuming liquid)

Meets ACS Specifications

Country of Origin: US

Packaging Site: Phillipsburg Mfg Ctr & DC


Jamie Ethier

Vice President Global Quality

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

Avantor Performance Materials, LLC

100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone: 610.386.1700



Certificate of Analysis

1.00132.0000 Barbituric acid for analysis EMSURE®
Batch N020065932

	Spec. Values		Batch Values	
Assay (acidimetric)	≥ 99	%	99.6	%
Identity (IR-spectrum)	passes test		passes test	
Chloride (Cl)	≤ 40	ppm	≤ 40	ppm
Heavy metals (as Pb)	≤ 50	ppm	≤ 50	ppm
Fe (Iron)	≤ 10	ppm	≤ 10	ppm
Sulfated ash	≤ 0.1	%	≤ 0.1	%
Loss on Drying (105 °C)	≤ 0.1	%	≤ 0.1	%
Suitability as reagent (for cyanide determination)	passes test		passes test	

Date of release (DD.MM.YYYY) 17.04.2020
Minimum shelf life (DD.MM.YYYY) 30.04.2025

Ioannis Chartomatsidis
Responsible laboratory manager quality control

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

(sodium dihydrogen phosphate, monohydrate)



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

Certificate of Analysis

Meets ACS Reagent Chemical Requirements,

Test	Specification	Result
Assay ($\text{NaH}_2\text{PO}_4 \cdot \text{H}_2\text{O}$)	98.0 – 102.0 %	99.5
pH of 5% Solution at 25°C	4.1 – 4.5	4.3
Insoluble Matter	≤ 0.01 %	< 0.01
Chloride (Cl)	≤ 5 ppm	< 5
ACS – Sulfate (SO_4)	≤ 0.003 %	< 0.003
Calcium (Ca)	≤ 0.005 %	< 0.005
Potassium (K)	≤ 0.01 %	< 0.01
Heavy Metals (as Pb)	≤ 0.001 %	< 0.001
Trace Impurities – Iron (Fe)	≤ 0.001 %	< 0.001

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

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


Jamie Ethier
Vice President Global Quality

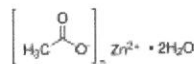
For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700
Avantor Performance Materials, LLC
100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone: 610.386.1700

Certificate of Analysis

Product Name:

Zinc acetate dihydrate - ACS reagent, $\geq 98\%$

Product Number: 383058
Batch Number: MKCQ9159
Brand: SIGALD
CAS Number: 5970-45-6
MDL Number: MFCD00066961
Formula: $C_4H_6O_4Zn \cdot 2H_2O$
Formula Weight: 219.51 g/mol
Quality Release Date: 06 JAN 2022



W2926
Open 7/5/22
received
on 7/5/22

Test	Specification	Result
Appearance (Color)	White	White
Appearance (Form)	Powder or Crystal or Chunk(s)	Powder
Infrared Spectrum	Conforms to Structure	Conforms
Insoluble Matter	$\leq 0.005\%$	0.003 %
Calcium (Ca)	$\leq 0.005\%$	0.003 %
Chloride (Cl)	≤ 5 ppm	< 5 ppm
Iron (Fe)	≤ 5 ppm	< 5 ppm
Potassium (K)	$\leq 0.01\%$	0.00 %
Magnesium (Mg)	$\leq 0.005\%$	0.003 %
Sodium (Na)	$\leq 0.05\%$	0.03 %
Lead (Pb)	$\leq 0.002\%$	$< 0.001\%$
pH	6.0 - 7.0	6.1
Sulfate (SO ₄)	$\leq 0.005\%$	$< 0.005\%$
Complexometric EDTA	98.0 - 101.0 %	100.3 %
Meets ACS Requirements	Meets Requirements	Meets Requirements


Larry Coers, Director
Quality Control
Milwaukee, WI US

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



Certificate of analysis

W3082 Received on 2/26/2026 by IZ

Product No.: A12244
Product: Stearic acid, 98%
Lot No.: U23E020

Appearance White flakes
Assay 98.7 %

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Certificate of Analysis

W3093
004121
04/03/2024
16

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

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

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

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

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

Test	Specification	Result
Appearance	Yellow liquid	Passed

*Not a certified value.

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

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

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

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

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



Paul Brandon (01/08/2024)

Production Manager

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

This product was tested in an ISO 17025 Accredited Laboratory

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



Certificate of Analysis

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

Lot Number: 4310G83

Product Number: 1601

Manufacture Date: OCT 09, 2023

Expiration Date: MAR 2025

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

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

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

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

Test	Specification	Result
Appearance	Blue liquid	Passed

*Not a certified value.

Test	Certified Value	Uncertainty	NIST SRM#
pH at 25°C (Method: SQCP027, SQCP033)	10.003	0.02	186-I-g, 186-II-g, 191d

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

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

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

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



Paul Brandon (10/09/2023)

Production Manager

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Contents of Certificates and Labels."

This product was tested in an ISO 17025 Accredited Laboratory

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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-CI B)
Standard Sodium Thiosulfate Titrant	APHA (4500-O C)
Standard Sodium Thiosulfate Titrant, 0.025 M	APHA (5530 C)
Standard Sodium Thiosulfate Solution (0.025 N)	EPA (SW-846) (9031)
Standard Sodium Thiosulfate solution (0.025 N)	EPA (SW-846) (9034)

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

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

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



Paul Brandon (03/29/2024)

Production Manager

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

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



Certificate of Analysis

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

Lot Number: 4403F90

Product Number: 1501

Manufacture Date: MAR 09, 2024

Expiration Date: FEB 2026

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

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

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

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

Test	Specification	Result
Appearance	Red liquid	Passed

*Not a certified value.

Test	Certified Value	Uncertainty	NIST SRM#
pH at 25°C (Method: SQCP027, SQCP033)	4.000	0.02	185i, 186-I-g, 186-II-g

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

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

Part Number	Size / Package Type	Shelf Life (Unopened Container)
1501-2.5	10 L Cubitainer®	24 months
1501-32	1 L natural poly	24 months
1501-5	20 L Cubitainer®	24 months

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



Paul Brandon (03/09/2024)

Production Manager

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

This product was tested in an ISO 17025 Accredited Laboratory

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Certificate of Analysis



Sodium Hydroxide (Pellets)

Material: 0583
Grade: ACS GRADE
Batch Number: 23B1556310

Chemical Formula: NaOH
Molecular Weight: 40
CAS #: 1310-73-2
Appearance:

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

Storage: Room Temperature

Pellets

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

Internal ID #: 710

Signature

We certify that this batch conforms to the specifications listed.

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

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

Additional Information

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

Product meets analytical specifications of the grades listed.



Sodium Hydroxide (Pellets)

Material: 0583
Grade: ACS GRADE
Batch Number: 23B1556310

Chemical Formula: NaOH
Molecular Weight: 40
CAS #: 1310-73-2
Appearance:

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

Storage: Room Temperature

Pellets

Spec Set: 0583ACS

Internal ID #: 710

Signature

We certify that this batch conforms to the specifications listed.

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

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

Additional Information

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

Product meets analytical specifications of the grades listed.

Certificate of Analysis

Iodine (Iodine-Iodide), 0.0250 Normal (N/40), 1 mL = 0.4008 mg S²⁻**Lot Number:** 2405D89**Product Number:** 3975**Manufacture Date:** MAY 10, 2024**Expiration Date:** MAY 2025

Name	CAS#	Grade
Water	7732-18-5	ACS/ASTM/USP/EP
Potassium Iodide	7681-11-0	ACS
Iodine	7553-56-2	ACS

Test	Specification	Result	NIST SRM#
Appearance	Dark brown liquid	Passed	
Assay (vs. Sodium Thiosulfate/Starch)	0.02498-0.02502 N at 20°C	0.02502 N at 20°C	136

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

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

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

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

Jose Pena (05/10/2024)
Operations Manager

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W3127 rec. 7/25/24 12
W3128 exp. 10/31/27
W3129

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

October 27, 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, quality results.

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

<u>Cat. No.</u>	<u>Lot No.</u>	<u>Product Description</u>
B1010	13821	COD Reagent Vials, 0 - 150 ppm

Item Number	ED150	Lot Number	2ND0156
Item	Edetate Disodium, Dihydrate, USP	CAS Number	6381-92-6
Molecular Formula	C ₁₀ H ₁₄ N ₂ Na ₂ O ₈ •2H ₂ O	Molecular Weight	372.24

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

Certificate of Analysis Results Entered By:

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

Certificate of Analysis Results Approved By:

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

Spectrum Chemical Mfg Corp
755 Jersey Avenue
New Brunswick 08901 NJ



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

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

The Elemental Impurities standards implemented by USP and other Pharmaceutical Compendia reflect a growing understanding of the toxicology of trace levels of elemental impurities that can remain in drug substances originating from either raw materials or manufacturing processes. Identifying and quantifying impurities can be critical to predicting the best possible patient outcomes. Elemental Impurities has been a requirement of all products meeting USP/NF, EP and BP monographs since January 1, 2018. More information can be found in USP sections <232> Elemental Impurities – Limits and <233> Elemental Impurities – Procedures. Data for drug substances furnished by Spectrum Chemical Mfg. Corp can be used to ensure that patient daily exposures by oral administration to the selected elements are not exceeded in the formulation of pharmaceutical products.



Part of TCP Analytical Group

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

Certificate of Analysis

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

Product Code: **LC13545**

Manufacture Date: August 01, 2024

Lot Number: **44080060**

Expiration Date: January 30, 2025

Test	Specification	Result
Appearance (clarity)	clear solution	clear solution
Appearance (color)	colorless	colorless
Concentration (CN)	0.990 - 1.010mg/mL	1.008mg/mL
Concentration (CN)	990 - 1,010ppm	1,008ppm
Traceable to NIST SRM	Report	999b

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

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

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

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

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

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

Michael Monteleone

Michael Monteleone
Chemistry Supervisor - Quality Control

ISO9001:2015 Registration #0306-01

2024080113:32:16bsturges-0-0

W3139 Received on 9/9/24 by IZ

Product No.: A12044
Product: Chloramine-T trihydrate, 98%
Lot No.: 10239484

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

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

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



Certificate of Analysis

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

Lot Number: 4408P62

Product Number: 8000

Manufacture Date: AUG 28, 2024

Expiration Date: AUG 2026

This product is Mercury-free.

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

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

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

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

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

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

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

Paul Brandon (08/28/2024)
Production Manager

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Certificate of Analysis

Cyanide Standard, 1000 ppm CN⁻

Lot Number: 1411J58**Product Number:** 2543**Manufacture Date:** NOV 22, 2024**Expiration Date:** MAY 2025

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

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

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

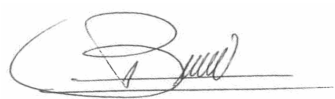
Test	Specification	Result
Appearance	Colorless liquid	Passed
Cyanide (CN ⁻)	995-1005 ppm	1000 ppm

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

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

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

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

A handwritten signature in black ink, appearing to read 'L. Briceno', is written over a horizontal line.

Luis Briceno (11/22/2024)
Operations Supervisor

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Certificate of Analysis

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

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

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

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

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

Test	Specification	Result
Appearance	Colorless liquid	Passed

*Not a certified value.

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

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

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

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



Jose Pena (11/11/2024)
Operations Manager

This product was tested in an ISO 17025 Accredited Laboratory

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Material	BDH9260-500G
Material Description	BDH POTASS HYDRGN PHTHLTE 500G
Grade	ACS GRADE
Batch	24H0956262
Reassay Date	04/28/2026
CAS Number	877-24-7
Molecular Formula	HOCC6H4COOK
Molecular Mass	204.22
Date of Manufacture	04/29/2023
Storage	Room Temperature

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

Internal ID #: 322

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

Certificate of Analysis

Sodium Hypochlorite Solution, 5% available Chlorine

Lot Number: 2501J28**Product Number:** 7495.5**Manufacture Date:** JAN 17, 2025**Expiration Date:** JUL 2025

This solution is subject to slow decomposition upon exposure to air. Keep container tightly capped. Refrigeration may improve stability.
When used in the Phenate method for Ammonia, APHA recommends replacing this solution about every 2 months.

Name	CAS#	Grade
Water	7732-18-5	Commercial
Sodium Hypochlorite	7681-52-9	Commercial

Test	Specification	Result	NIST SRM#
Appearance	Colorless to greenish-yellow liquid	Passed	
Assay (vs. Sodium Thiosulfate/Starch)	4.75-5.25 % (w/w) Cl ₂	5.17 % (w/w) Cl ₂	136

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

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

Part Number	Size / Package Type	Shelf Life (Unopened Container)
7495.5-1	4 L black poly	6 months
7495.5-16	500 mL amber poly	6 months
7495.5-32	1 L amber poly	6 months
7495.5-8	250 mL amber poly	6 months

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

Jose Pena (01/17/2025)
Operations Manager

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



Material No.: 9262-03
Batch No.: 24G1962003
Manufactured Date: 2024-05-23
Expiration Date: 2025-08-22
Revision No.: 0

Certificate of Analysis

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 C ₆ Isomers) (by GC, corrected for water)	$\geq 99.5 \%$	99.7 %
Assay (as n-Hexane) (by GC, corrected for water)	$\geq 95 \%$	98 %
Color (APHA)	≤ 10	5
Residue after Evaporation	≤ 1.0 ppm	0.1 ppm
Substances Darkened by H ₂ SO ₄	Passes Test	Passes Test
Water (by KF, coulometric)	$\leq 0.05 \%$	< 0.01 %

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

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

Jamie Croak
Director Quality Operations, Bioscience Production



PERCENT SOLID

Supervisor: Iwona
Analyst: jignesh
Date: 3/21/2025

OVENTEMP IN Celsius(°C): 107
Time IN: 17:20
In Date: 03/20/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 103
Time OUT: 08:15
Out Date: 03/21/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLID- OVEN

QC:LB135105

Lab ID	Client SampleID	Dish #	Dish Wt(g) (A)	Sample Wt(g)	Dish + Sample Wt(g) (B)	Dish+Dry Sample Wt(g) (C)	% Solid	Comments
Q1609-02	WC-SCRN-01-C	1	1.15	10.26	11.41	10.57	91.8	
Q1610-01	DRUM-1	2	1.00	1.00	2.00	2.00	100.0	oil-debris
Q1610-02	SOIL-PILE	3	1.18	10.16	11.34	9.97	86.5	
Q1611-01	RBR200030	4	1.13	10.26	11.39	10.55	91.8	
Q1611-02	RBR200030	5	1.15	10.42	11.57	10.8	92.6	
Q1612-01	BC260105-1-1	6	1.00	1.00	2.00	2.00	100.0	oilc
Q1612-02	BC260105-1-2	7	1.00	1.00	2.00	2.00	100.0	oilc
Q1612-03	BC216341-1-1	8	1.00	1.00	2.00	2.00	100.0	oilc
Q1612-04	BC216341-1-2	9	1.00	1.00	2.00	2.00	100.0	oilc
Q1613-01	LAW-25-0051	10	1.00	1.00	2.00	2.00	100.0	oil sample
Q1614-01	TR-04-032025	11	1.14	10.41	11.55	10.99	94.6	
Q1614-02	TR-04-032025-E2	12	1.19	10.06	11.25	10.72	94.7	
Q1616-01	7A-7B-7C	13	1.00	1.00	2.00	2.00	100.0	caluk
Q1617-01	1A-1B-1C 1957 BLG	14	1.00	1.00	2.00	2.00	100.0	caluk
Q1619-01	CONCRETE-1	15	1.00	1.00	2.00	2.00	100.0	CONCRETE sample
Q1619-03	CONCRETE-2	16	1.00	1.00	2.00	2.00	100.0	CONCRETE sample
Q1619-05	TP-1	17	1.15	10.55	11.7	9.96	83.5	
Q1619-07	TP-2	18	1.19	10.26	11.45	10.01	86.0	
Q1619-09	TP-3	19	1.14	11.08	12.22	9.68	77.1	
Q1619-11	TP-4	20	1.15	10.33	11.48	9.62	82.0	
Q1619-13	TP-5	21	1.18	10.30	11.48	9.75	83.2	

$$\% \text{ Solid} = \frac{(C-A) * 100}{(B-A)}$$

WORKLIST(Hardcopy Internal Chain)

UP 135105

WorkList Name : %1-032025 WorkList ID : 188405 Department : Wet-Chemistry Date : 03-20-2025 11:20:27

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1609-02	WC-SCRN-01-C	Solid	Percent Solids	Cool 4 deg C	ENTA05	I51	03/19/2025	Chemtech -SO
Q1610-01	DRUM-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	I41	03/20/2025	Chemtech -SO
Q1610-02	SOIL-PILE	Solid	Percent Solids	Cool 4 deg C	PSEG03	I41	03/20/2025	Chemtech -SO
Q1611-01	RBR200030	Solid	Percent Solids	Cool 4 deg C	PSEG03	I41	03/20/2025	Chemtech -SO
Q1611-02	RBR200030	Solid	Percent Solids	Cool 4 deg C	PSEG03	I41	03/20/2025	Chemtech -SO
Q1612-01	BC260105-1-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	I41	03/20/2025	Chemtech -SO
Q1612-02	BC260105-1-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	I41	03/20/2025	Chemtech -SO
Q1612-03	BC216341-1-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	I41	03/20/2025	Chemtech -SO
Q1612-04	BC216341-1-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	I41	03/20/2025	Chemtech -SO
Q1613-01	LAW-25-0051	Solid	Percent Solids	Cool 4 deg C	PSEG03	I41	03/20/2025	Chemtech -SO
Q1614-01	TR-04-032025	Solid	Percent Solids	Cool 4 deg C	PSEG05	I41	03/20/2025	Chemtech -SO
Q1614-02	TR-04-032025-E2	Solid	Percent Solids	Cool 4 deg C	PSEG05	I41	03/20/2025	Chemtech -SO
Q1616-01	7A-7B-7C	Solid	Percent Solids	Cool 4 deg C	ATCE02	F11	03/20/2025	Chemtech -SO
Q1617-01	1A-1B-1C 1957 BLG	Solid	Percent Solids	Cool 4 deg C	ATCE02	F11	03/20/2025	Chemtech -SO
Q1619-01	CONCRETE-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	I41	03/20/2025	Chemtech -SO
Q1619-03	CONCRETE-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	I41	03/20/2025	Chemtech -SO
Q1619-05	TP-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	I41	03/20/2025	Chemtech -SO
Q1619-07	TP-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	I41	03/20/2025	Chemtech -SO
Q1619-09	TP-3	Solid	Percent Solids	Cool 4 deg C	PSEG03	I41	03/20/2025	Chemtech -SO
Q1619-11	TP-4	Solid	Percent Solids	Cool 4 deg C	PSEG03	I41	03/20/2025	Chemtech -SO
Q1619-13	TP-5	Solid	Percent Solids	Cool 4 deg C	PSEG03	I41	03/20/2025	Chemtech -SO

Date/Time 03/20/25 16:10 Date/Time 03/20/25
 Raw Sample Received by: SP Wey Raw Sample Received by: SP Wey
 Raw Sample Relinquished by: SP Wey Raw Sample Relinquished by: SP Wey



SHIPPING DOCUMENTS



284 Sheffield Street, Mountainside, NJ 07092

(908) 789-8900 Fax: (908) 788-9222

www.chemtech.net

CHAIN OF CUSTODY RECORD

Alliance Project Number:

Q1609

COC Number: 2042111

Page 1 of 2

CLIENT INFORMATION

COMPANY: ENTACT, LLC

ADDRESS: 150 Bay Street, Suite 806

CITY: Jersey City STATE: NJ ZIP: 07302

ATTENTION: Jarod Stanfield

PHONE: 570-886-0442

FAX:

PROJECT INFORMATION

PROJECT NAME: 540 Degraw St Brooklyn, NY

PROJECT #: E9309 LOCATION: Brooklyn, NY

PROJECT MANAGER: Jarod Stanfield

E-MAIL: jstanfield@entact.com

PHONE: 570-886-0442

FAX:

BILLING INFORMATION

BILL TO: ENTACT, LLC

PO# E9309

ADDRESS: 999 Oakmont Plaza Drive, Suite 300

CITY: Westmont

STATE: IL ZIP: 60559

ATTENTION: Wendy Murray

PHONE: 800-936-8228

ANALYSIS

TCLP VOCs	TCLP ICP Metals	TCLP Herb	TCLP Pest	TCLP SVOCs	TCLP pH	I/C/R	PCBs	Oil & Grease
1	2	3	4	5	6	7	8	9

DATA TURNAROUND INFORMATION

FAX: 5 DAYS*
HARD COPY: 5 DAYS*
EDD 5 DAYS*
* TO BE APPROVED BY ALLIANCE
STANDARD TURNAROUND TIME IS 10 BUSINESS DAYS

DATA DELIVERABLE INFORMATION

- ☐ RESULTS ONLY ☐ USEPA CLP
☐ RESULTS + QC ☐ New York State ASP "B"
☐ New Jersey REDUCED ☐ New York State ASP "A"
☐ New Jersey CLP ☐ Other _____
☐ EDD Format _____

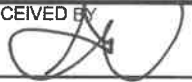
PRESERVATIVES

COMMENTS

← Specify Preservatives
A-HCl B-HNO3
C-H2SO4 D-NaOH
E-ICE F-Other

CHEMTECH SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE		SAMPLE COLLECTION		# of Bottles	E	E	E	E	E	E	E	E	E	
			COMP	GRAB	DATE	TIME		1	2	3	4	5	6	7	8	9	
1.	WC-SCRN-01-G	Soil		X	3/19	13:30	1	X									
2.	WC-SCRN-01-C	Soil	X		3/19	13:30	11		X	X	X	X	X	X	X	X	
3.																	
4.																	
5.																	
6.																	
7.																	
8.																	
9.																	
10.																	

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

RELINQUISHED BY SAMPLER 1. Jarod Stanfield	DATE/TIME 3/19 15:30	RECEIVED BY 1.  3-20-25 0830	Conditions of bottles or coolers at receipt: ☐ Compliant ☐ Non Compliant ☐ Cooler Temp 3.0 ☐ Ice in Cooler?: _____
RELINQUISHED BY 2.	DATE/TIME	RECEIVED BY 2.	Comments:
RELINQUISHED BY 3.	DATE/TIME	RECEIVED FOR LAB BY 3.	SHIPPED VIA: CLIENT: ☐ Hand Delivered ☐ Overnight ALLIANCE: ☐ Picked Up ☐ Overnight Page _____ of _____
			Shipment Complete ☐ YES ☐ NO

WHITE - ALLIANCE COPY FOR RETURN TO CLIENT

YELLOW - ALLIANCE COPY

PINK - SAMPLER COPY



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www.chemtech.net

CHAIN OF CUSTODY RECORD

Alliance Project Number:

Q1609

COC Number: 2042111

Page 2 of 2

CLIENT INFORMATION

COMPANY: ENTACT, LLC

ADDRESS: 150 Bay Street, Suite 806

CITY Jersey City STATE: NJ ZIP: 07302

ATTENTION: Jarod Stanfield

PHONE: 570-886-0442

FAX:

PROJECT INFORMATION

PROJECT NAME: 540 Degraw St Brooklyn, NY

PROJECT #: E9309 LOCATION: Brooklyn, NY

PROJECT MANAGER: Jarod Stanfield

E-MAIL: jstanfield@entact.com

PHONE: 570-886-0442

FAX:

BILLING INFORMATION

BILL TO: ENTACT, LLC

PO# E9309

ADDRESS: 999 Oakmont Plaza Drive, Suite 300

CITY: Westmont

STATE: IL ZIP: 60559

ATTENTION: Wendy Murray

PHONE: 800-936-8228

ANALYSIS

ASTM COD	ASTM Ammonia-Nitrogen	ASTM O&G	ASTM TS	TS, TVS	pH	Paint Filter		
10	11	12	13	14	15	16		

PRESERVATIVES

COMMENTS

<-- Specify Preservatives

A-HCl B-HNO3
C-H2SO4 D-NaOH
E-ICE F-OtherCHEMTECH
SAMPLE
IDPROJECT
SAMPLE IDENTIFICATIONSAMPLE
MATRIXSAMPLE
TYPESAMPLE
COLLECTION

of Bottles

E	E	E	E	E	E	E		
1	2	3	4	5	6	7	8	9
X	X	X	X	X	X	X		

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

RELINQUISHED BY SAMPLER 1. Jarod Stanfield	DATE/TIME 3/19 15:30	RECEIVED BY 1. 3-20-25 0830	Conditions of bottles or coolers at receipt: ☐ Compliant ☐ Non Compliant ☐ Cooler Temp 3.0 ☐ Ice in Cooler?: Comments:	
RELINQUISHED BY 2.	DATE/TIME	RECEIVED BY 2.		
RELINQUISHED BY 3.	DATE/TIME	RECEIVED FOR LAB BY 3.		
Page ____ of ____			SHIPPED VIA: CLIENT: ☐ Hand Delivered ☐ Overnight ALLIANCE: ☐ Picked Up ☐ Overnight	Shipment Complete ☐ YES ☐ NO

WHITE - ALLIANCE COPY FOR RETURN TO CLIENT

YELLOW - ALLIANCE COPY

PINK - SAMPLER COPY

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