

Cover Page

Order ID : Q1800

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

Client : ENTACT

Lab Sample Number

Q1800-01
Q1800-02
Q1800-03
Q1800-04

Client Sample Number

WC-A4-01-G
WC-A4-01-C
WC-A4-01-C
WC-A4-01-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: 4/19/2025

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 #: Q1800

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: NILESH PRAJAPATI

Date: 04/19/2025

LAB CHRONICLE

OrderID:	Q1800	OrderDate:	4/14/2025 10:17:00 AM
Client:	ENTACT	Project:	540 Degraw St, Brooklyn, NY - E9309
Contact:	Jarod Stanfield	Location:	L41

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q1800-02	WC-A4-01-C	SOIL			04/11/25 12:00			04/14/25
			Oil and Grease	9071B			04/16/25 13:00	
			Paint Filter	9095B			04/16/25 10:00	
			pH	9045D			04/15/25 16:00	
			TS	SM2540 B			04/14/25 11:00	
			TVS	160.4			04/14/25 16:00	
Q1800-03	WC-A4-01-C	SOIL			04/11/25 12:00			04/14/25
			Corrosivity	9045D			04/14/25 16:00	
			Ignitability	1030			04/14/25 13:15	
			Reactive Cyanide	9012B		04/15/25	04/15/25 14:49	
			Reactive Sulfide	9034		04/15/25	04/15/25 15:36	
Q1800-04	WC-A4-01-C	WATER			04/11/25 12:00			04/14/25
			ASTM Ammonia	SM4500-NH3		04/17/25	04/18/25 11:53	
			ASTM COD	SM5220 D			04/16/25 15:02	
			ASTM Oil and Grease	1664A			04/16/25 13:30	

LAB CHRONICLE

ASTM TS

SM2540 B

04/16/25
11:00



SAMPLE DATA

Report of Analysis

Client:	ENTACT	Date Collected:	04/11/25 12:00
Project:	540 Degraw St, Brooklyn, NY - E9309	Date Received:	04/14/25
Client Sample ID:	WC-A4-01-C	SDG No.:	Q1800
Lab Sample ID:	Q1800-02	Matrix:	SOIL
		% Solid:	81.6

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.
Oil and Grease	1250		1	7.11	30.6	mg/Kg		04/16/25 13:00	SW9071B
Paint Filter	1.00	U	1	1.00	1.00	ml/100gm		04/16/25 10:00	9095B
pH	12.3	H	1	0	0	pH		04/15/25 16:00	9045D
TS	81.5		1	1.00	5.00	%		04/14/25 11:00	SM 2540 B-15
TVS	3.70	J	1	1.00	10.0	%		04/14/25 16:00	160.4

Comments: pH result reported at temperature 24.7 °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:	04/11/25 12:00
Project:	540 Degraw St, Brooklyn, NY - E9309	Date Received:	04/14/25
Client Sample ID:	WC-A4-01-C	SDG No.:	Q1800
Lab Sample ID:	Q1800-03	Matrix:	SOIL
		% Solid:	100

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Corrosivity	12.3	H	1	0	0	pH		04/14/25 16:00	9045D
Ignitability	NO		1	0	0	oC		04/14/25 13:15	1030
Reactive Cyanide	0.0084	U	1	0.0084	0.050	mg/Kg	04/15/25 08:45	04/15/25 14:49	9012B
Reactive Sulfide	4.74	J	1	0.20	10.0	mg/Kg	04/15/25 12:30	04/15/25 15:36	9034

Comments: pH result reported at temperature 24.7 °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:	04/11/25 12:00
Project:	540 Degraw St, Brooklyn, NY - E9309	Date Received:	04/14/25
Client Sample ID:	WC-A4-01-C	SDG No.:	Q1800
Lab Sample ID:	Q1800-04	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
ASTM Ammonia	0.42		1	0.030	0.10	mg/L	04/17/25 09:10	04/18/25 11:53	SM 4500-NH3 B plus NH3 G-11
ASTM COD	45.4		1	1.50	10.0	mg/L		04/16/25 15:02	SM 5220 D-11
ASTM Oil and Grease	0.30	J	1	0.29	5.00	mg/L		04/16/25 13:30	SW1664A
ASTM TS	1090		1	1.00	5.00	mg/L		04/16/25 11:00	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

Initial and Continuing Calibration Verification

Client: ENTACT

SDG No.: Q1800

Project: 540 Degraw St, Brooklyn, NY - E9309

RunNo.: LB135420

Analyte		Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID: Corrosivity	ICV	pH	7.02	7	100	90-110	04/14/2025
Sample ID: Corrosivity	CCV1	pH	2.01	2.00	101	90-110	04/14/2025
Sample ID: Corrosivity	CCV2	pH	12.02	12.00	100	90-110	04/14/2025

Initial and Continuing Calibration Verification

Client: ENTACT

SDG No.: Q1800

Project: 540 Degraw St, Brooklyn, NY - E9309

RunNo.: LB135421

Analyte	Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID: ICV pH	pH	7.02	7	100	90-110	04/14/2025
Sample ID: CCV1 pH	pH	2.01	2.00	101	90-110	04/14/2025
Sample ID: CCV2 pH	pH	12.02	12.00	100	90-110	04/14/2025

Initial and Continuing Calibration Verification

Client: ENTACT

SDG No.: Q1800

Project: 540 Degraw St, Brooklyn, NY - E9309

RunNo.: LB135440

Analyte	Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID: ICV1 Reactive Cyanide	mg/L	0.09	0.099	91	85-115	04/15/2025
Sample ID: CCV1 Reactive Cyanide	mg/L	0.24	0.25	96	90-110	04/15/2025
Sample ID: CCV2 Reactive Cyanide	mg/L	0.23	0.25	92	90-110	04/15/2025
Sample ID: CCV3 Reactive Cyanide	mg/L	0.23	0.25	92	90-110	04/15/2025
Sample ID: CCV4 Reactive Cyanide	mg/L	0.25	0.25	100	90-110	04/15/2025

Initial and Continuing Calibration Verification

Client: ENTACT

SDG No.: Q1800

Project: 540 Degraw St, Brooklyn, NY - E9309

RunNo.: LB135458

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	04/16/2025
Sample ID: CCV2 ASTM COD	mg/L	48.339	50	97	95-105	04/16/2025

Initial and Continuing Calibration Verification

Client: ENTACT

SDG No.: Q1800

Project: 540 Degraw St, Brooklyn, NY - E9309

RunNo.: LB135483

Analyte	Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID: ICV1 ASTM Ammonia	mg/L	0.93	1	93	90-110	04/18/2025
Sample ID: CCV1 ASTM Ammonia	mg/L	0.95	1	95	90-110	04/18/2025
Sample ID: CCV2 ASTM Ammonia	mg/L	1	1	100	90-110	04/18/2025

Initial and Continuing Calibration Verification

Client: ENTACT

SDG No.: Q1800

Project: 540 Degraw St, Brooklyn, NY - E9309

RunNo.: LB135483

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.: Q1800

Project: 540 Degraw St, Brooklyn, NY - E9309

RunNo.: LB135440

Analyte	Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID: ICB1 Reactive Cyanide	mg/L	0.0014	0.0025	J	0.00096	0.005	04/15/2025
Sample ID: CCB1 Reactive Cyanide	mg/L	0.0014	0.0025	J	0.00096	0.005	04/15/2025
Sample ID: CCB2 Reactive Cyanide	mg/L	0.0012	0.0025	J	0.00096	0.005	04/15/2025
Sample ID: CCB3 Reactive Cyanide	mg/L	0.0013	0.0025	J	0.00096	0.005	04/15/2025
Sample ID: CCB4 Reactive Cyanide	mg/L	0.0015	0.0025	J	0.00096	0.005	04/15/2025

Initial and Continuing Calibration Blank Summary

Client: ENTACT

SDG No.: Q1800

Project: 540 Degraw St, Brooklyn, NY - E9309

RunNo.: LB135458

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	04/16/2025
Sample ID: CCB2 ASTM COD	mg/L	< 5.0000	5.0000	U	1.50	10	04/16/2025

Initial and Continuing Calibration Blank Summary

Client: ENTACT

SDG No.: Q1800

Project: 540 Degraw St, Brooklyn, NY - E9309

RunNo.: LB135483

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	04/18/2025
Sample ID: CCB1 ASTM Ammonia	mg/L	< 0.0500	0.0500	U	0.030	0.1	04/18/2025
Sample ID: CCB2 ASTM Ammonia	mg/L	< 0.0500	0.0500	U	0.030	0.1	04/18/2025

Initial and Continuing Calibration Blank Summary

Client: ENTACT

SDG No.: Q1800

Project: 540 Degraw St, Brooklyn, NY - E9309

RunNo.: LB135483

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

Client: ENTACT

SDG No.: Q1800

Project: 540 Degraw St, Brooklyn, NY - E9309

Analyte	Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID: LB135417BL TS	%	< 2.5000	2.5000	U	1	5	04/14/2025
Sample ID: LB135418BL TVS	%	< 5.0000	5.0000	U	1	10	04/14/2025
Sample ID: LB135450BL Oil and Grease	mg/Kg	< 12.5000	12.5000	U	5.8	25	04/16/2025
Sample ID: LB135451BL ASTM TS	mg/L	< 2.5000	2.5000	U	1	5	04/16/2025
Sample ID: LB135454BL ASTM Oil and Grease	mg/L	< 2.5000	2.5000	U	0.29	5.0	04/16/2025
Sample ID: LB135458BL ASTM COD	mg/L	< 5.0000	5.0000	U	1.5	10.0	04/16/2025
Sample ID: PB167580BL Reactive Sulfide	mg/Kg	< 5.0000	5.0000	U	0.201	10	04/15/2025
Sample ID: PB167581BL Reactive Cyanide	mg/Kg	0.0096	0.0250	J	0.0084	0.05	04/15/2025
Sample ID: PB167640BL ASTM Ammonia	mg/L	< 0.0500	0.0500	U	0.03	0.1	04/18/2025

Matrix Spike Summary

Client:	ENTACT	SDG No.:	Q1800
Project:	540 Degraw St, Brooklyn, NY - E9309	Sample ID:	Q1800-02
Client ID:	WC-A4-01-CMS	Percent Solids for Spike Sample:	81.6

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	1400		1250		123	1	124		04/16/2025

Matrix Spike Summary

Client:	ENTACT	SDG No.:	Q1800
Project:	540 Degraw St, Brooklyn, NY - E9309	Sample ID:	Q1800-02
Client ID:	WC-A4-01-CMSD	Percent Solids for Spike Sample:	81.6

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	1380		1250		123	1	104		04/16/2025

Matrix Spike Summary

Client:	ENTACT	SDG No.:	Q1800
Project:	540 Degraw St, Brooklyn, NY - E9309	Sample ID:	Q1800-04
Client ID:	WC-A4-01-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 Oil and Grease	mg/L	78-114	20.3		0.30	J	20.0	1	100		04/16/2025
ASTM Ammonia	mg/L	75-125	1.40		0.42		1	1	98		04/18/2025
ASTM COD	mg/L	75-125	89.9		45.4		50.0	1	89		04/16/2025

Matrix Spike Summary

Client:	ENTACT	SDG No.:	Q1800
Project:	540 Degraw St, Brooklyn, NY - E9309	Sample ID:	Q1800-04
Client ID:	WC-A4-01-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 Oil and Grease	mg/L	78-114	20.5		0.30	J	20.0	1	101		04/16/2025
ASTM Ammonia	mg/L	75-125	1.40		0.42		1	1	98		04/18/2025
ASTM COD	mg/L	75-125	91.9		45.4		50.0	1	93		04/16/2025

Duplicate Sample Summary

Client:	ENTACT	SDG No.:	Q1800
Project:	540 Degraw St, Brooklyn, NY - E9309	Sample ID:	Q1764-01
Client ID:	BUR-25-0020DUP	Percent Solids for Spike Sample:	95.2

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/ AD	Qual	Analysis Date
Ignitability	oC	+/-20	NO		NO		1	0		04/14/2025

Duplicate Sample Summary

Client: ENTACT Project: 540 Degraw St, Brooklyn, NY - E9309 Client ID: TP-22DUP	SDG No.: Q1800 Sample ID: Q1779-04 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 Cyanide	mg/Kg	+/-20	0.0095	J	0.0096	J	1	1		04/15/2025
Reactive Sulfide	mg/Kg	+/-20	1.59	J	1.59	J	1	0		04/15/2025

Duplicate Sample Summary

Client: ENTACT Project: 540 Degraw St, Brooklyn, NY - E9309 Client ID: WC-A4-01-CDUP	SDG No.: Q1800 Sample ID: Q1800-02 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
TS	%	+/-5	81.5		81.5		1	0		04/14/2025
TVS	%	+/-5	3.70	J	3.60	J	1	2.74		04/14/2025
pH	pH	+/-20	12.3		12.3		1	0.08		04/14/2025
Paint Filter	ml/100gm	+/-20	1.00	U	1.00	U	1	0		04/16/2025
Oil and Grease	mg/Kg	+/-20	1250		1270		1	1.56		04/16/2025

Duplicate Sample Summary

Client: ENTACT Project: 540 Degraw St, Brooklyn, NY - E9309 Client ID: WC-A4-01-CMSD	SDG No.: Q1800 Sample ID: Q1800-02 Percent Solids for Spike Sample: 81.6
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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	1400		1380		1	1.81		04/16/2025

Duplicate Sample Summary

Client:	ENTACT	SDG No.:	Q1800
Project:	540 Degraw St, Brooklyn, NY - E9309	Sample ID:	Q1800-03
Client ID:	WC-A4-01-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
Corrosivity	pH	+/-20	12.3		12.3		1	0.08		04/14/2025

Duplicate Sample Summary

Client: ENTACT	SDG No.: Q1800
Project: 540 Degraw St, Brooklyn, NY - E9309	Sample ID: Q1800-04
Client ID: WC-A4-01-CDUP	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 TS	mg/L	+/-5	1090		1030		1	4.91		04/16/2025
ASTM Oil and Grease	mg/L	+/-18	0.30	J	0.30	J	1	0		04/16/2025
ASTM COD	mg/L	+/-20	45.4		44.4		1	2.23		04/16/2025
ASTM Ammonia	mg/L	+/-20	0.42		0.43		1	2		04/18/2025

Duplicate Sample Summary

Client: ENTACT	SDG No.: Q1800
Project: 540 Degraw St, Brooklyn, NY - E9309	Sample ID: Q1800-04
Client ID: WC-A4-01-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	20.3		20.5		1	0.98		04/16/2025
ASTM COD	mg/L	+/-20	89.9		91.9		1	2.2		04/16/2025
ASTM Ammonia	mg/L	+/-20	1.40		1.40		1	0		04/18/2025

Laboratory Control Sample Summary

Client: ENTACT

SDG No.: Q1800

Project: 540 Degraw St, Brooklyn, NY - E9309

Run No.: LB135450

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID	LB135450BS							
Oil and Grease	mg/Kg	100	94.9		95	1	80-120	04/16/2025

Laboratory Control Sample Summary

Client: ENTACT

SDG No.: Q1800

Project: 540 Degraw St, Brooklyn, NY - E9309

Run No.: LB135454

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID	LB135454BS							
ASTM Oil and Grease	mg/L	20.0	16.8		84	1	78-114	04/16/2025

Laboratory Control Sample Summary

Client: ENTACT

SDG No.: Q1800

Project: 540 Degraw St, Brooklyn, NY - E9309

Run No.: LB135458

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID	LB135458BS							
ASTM COD	mg/L	50	50.3		101	1	90-110	04/16/2025

Laboratory Control Sample Summary

Client: ENTACT

SDG No.: Q1800

Project: 540 Degraw St, Brooklyn, NY - E9309

Run No.: LB135483

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID	PB167640BS							
ASTM Ammonia	mg/L	1	0.94		94	1	90-110	04/18/2025



RAW DATA

Analytical Summary Report

Analysis Method: 1030
Parameter: Ignitability
Run Number: LB135415

Reviewed By: Iwona

Supervisor Review By: sohil

Seq	LabID	ClientID	DF	matrix	Result Status	Burning Rate	Anal Date	Anal Time
1	Q1764-01	BUR-25-0020	1	Solid	NO	0.00	04/14/2025	12:00
2	Q1764-01DUP	BUR-25-0020DUP	1	Solid	NO	0.00	04/14/2025	12:07
3	Q1767-04	NWB-2106	1	Solid	NO	0.00	04/14/2025	12:15
4	Q1787-09	TP-1	1	Solid	NO	0.00	04/14/2025	12:22
5	Q1787-12	TP-1	1	Solid	NO	0.00	04/14/2025	12:30
6	Q1788-01	WC-1	1	Solid	NO	0.00	04/14/2025	12:38
7	Q1788-04	WC-1	1	Solid	NO	0.00	04/14/2025	12:45
8	Q1791-07	290502	1	Solid	NO	0.00	04/14/2025	12:52
9	Q1794-01	40325-C-G-COMP	1	Solid	NO	0.00	04/14/2025	13:00
10	Q1795-01	40425	1	Solid	NO	0.00	04/14/2025	13:08
11	Q1800-03	WC-A4-01-C	1	Solid	NO	0.00	04/14/2025	13:15
12	Q1803-01	WEST-BAY	1	Solid	NO	0.00	04/14/2025	13:22
13	Q1803-02	FUEL-MONITORING	1	Solid	NO	0.00	04/14/2025	13:30

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

WORKLIST(Hardcopy Internal Chain)

66135415

WorkList Name : ign-04-14 WorkList ID : 188894 Department : Wet-Chemistry Date : 04-14-2025 11:04:02

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1764-01	BUR-25-0020	Solid	Ignitability	Cool 4 deg C	PSEG03	L41	04/10/2025	1030
Q1767-04	NWB-2106	Solid	Ignitability	Cool 4 deg C	PSEG03	F11	04/10/2025	1030
Q1787-09	TP-1	Solid	Ignitability	Cool 4 deg C	PSEG03	L41	04/10/2025	1030
Q1787-12	TP-1	Solid	Ignitability	Cool 4 deg C	PSEG03	L41	04/10/2025	1030
Q1788-01	WC-1	Solid	Ignitability	Cool 4 deg C	PSEG03	L31	04/11/2025	1030
Q1788-04	WC-1	Solid	Ignitability	Cool 4 deg C	PSEG03	L31	04/11/2025	1030
Q1791-07	290502	Solid	Ignitability	Cool 4 deg C	PSEG03	L41	04/11/2025	1030
Q1794-01	40325-C-G-COMP	Solid	Ignitability	Cool 4 deg C	PSEG03	L41	04/11/2025	1030
Q1795-01	40425	Solid	Ignitability	Cool 4 deg C	PSEG03	L41	04/11/2025	1030
Q1800-03	WC-A4-01-C	Solid	Ignitability	Cool 4 deg C	ENTA05	L41	04/11/2025	1030
Q1803-01	WEST-BAY	Solid	Ignitability	Cool 4 deg C	SCAL01	L31	04/10/2025	1030
Q1803-02	FUEL-MONITORING	Solid	Ignitability	Cool 4 deg C	SCAL01	L31	04/10/2025	1030

Date/Time 04/14/2025 11:50
 Raw Sample Received by: [Signature]
 Raw Sample Relinquished by: [Signature]

Date/Time 04/14/2025 13:44
 Raw Sample Received by: [Signature]
 Raw Sample Relinquished by: [Signature]

TOTAL SOLIDS - SM2540B

SUPERVISOR: Iwona

ANALYST: jignesh

Date: 04/14/2025

Run Number: LB135417

BalanceID: WC SC-5

OvenID: WC OVEN-1

ThermometerID: WET OVEN#1

TEMP1 IN: 104 °C 04/14/2025 11:00 **TEMP1 OUT:** 103 °C 04/14/2025 12:00
TEMP2 IN: 104 °C 04/14/2025 12:30 **TEMP2 OUT:** 103 °C 04/14/2025 13:30
TEMP3 IN: 104 °C 04/14/2025 16:00 **TEMP3 OUT:** 103 °C 04/15/2025 07:30
TEMP4 IN: 104 °C 04/15/2025 08:00 **TEMP4 OUT:** 103 °C 04/15/2025 09:30

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	LB135417BL	LB135417BL	64.8596	64.8596	64.8596	64.8596	64.8596	64.8596	0.0000	0
2	Q1800-02	WC-A4-01-C	59.3919	59.3919	81.1876	77.1450	77.1450	77.1450	17.7531	81.5
3	Q1800-02DUP	WC-A4-01-CDUP	55.8836	55.8836	76.6116	72.7822	72.7822	72.7822	16.8986	81.5

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)

UB 135417

WorkList Name : ts q1800 s WorkList ID : 188911 Department : Wet-Chemistry Date : 04-14-2025 13:51:52

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1800-02	WC-A4-01-C	Solid	TS	Cool 4 deg C	ENTA05	L41	04/11/2025	SM2540 B

Date/Time 04.14.25 16:20
Raw Sample Received by: SP 500
Raw Sample Relinquished by: SP 500

Date/Time 04.14.25 16:30
Raw Sample Received by: CP 500
Raw Sample Relinquished by: SP 500

TOTAL VOLATILE SOLIDS 160.4

TEMP1 IN: 104 °C 04/14/2025 16:00 **TEMP1 OUT:** 103 °C 04/15/2025 07:30
TEMP2 IN: 104 °C 04/15/2025 08:00 **TEMP2 OUT:** 103 °C 04/15/2025 09:30
TEMP3 IN: 550 °C 04/15/2025 10:00 **TEMP3 OUT:** 550 °C 04/15/2025 11:30
TEMP4 IN: 540 °C 04/15/2025 12:00 **TEMP4 OUT:** 540 °C 04/15/2025 13:30

Run Number: LB135418

SUPERVISOR: Iwona

ANALYST: jignesh

BalanceID: WC SC-5

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	LB135418BL	64.8596	64.8596	64.8596	64.8596	64.8596	64.8596	64.8596	0.0000	0
2	Q1800-02	59.3919	59.3919	81.1876	77.1450	77.145	76.4820	76.4820	0.6630	3.7
3	Q1800-02DUP	55.8836	55.8836	76.6116	72.7822	72.7822	72.1694	72.1694	0.6128	3.6

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)

135418

WorkList Name : tvs q1800 s

WorkList ID : 188912

Department : Wet-Chemistry

Date : 04-14-2025 13:52:21

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1800-02	WC-A4-01-C	Solid	TVS	Cool 4 deg C	ENTA05	L41	04/11/2025	160.4

18 Date/Time 04-14-25 04:14:25 14:20

Raw Sample Received by: 18 04/14/25 16:30

Raw Sample Relinquished by: 18 04/14/25 16:30

Analytical Summary Report

Analysis Method: 9045D

Analyst By : jignesh

Parameter: Corrosivity

Supervisor Review By : Iwona

Run Number: LB135420

Slope : 99.2

BalanceID: WC SC-7

pH Meter ID : WC PH METER-1

Calibration Standards	Chemtech Log#
PH 4 BUFFER SOLUTION	W3178
BUFFER PH 7.00 GREEN 1PINT PK6	W3093
PH 10.01 BUFFER, COLOR CD 475ML	W3191
buffer solution pH 7 yellow	W3071
Buffer Solution, PH2 (500ml)	W3161
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	20.2	4.01	04/14/2025	15:30
2	CAL2	1	Water	NA	NA	20.2	7.00	04/14/2025	15:31
3	CAL3	1	Water	NA	NA	20.3	10.02	04/14/2025	15:33
4	ICV	1	Water	NA	NA	20.3	7.02	04/14/2025	15:35
5	CCV1	1	Water	NA	NA	20.2	2.01	04/14/2025	15:40
6	Q1800-03	1	Solid	20.02	20	24.7	12.25	04/14/2025	16:00
7	Q1800-03DUP	1	Solid	20.03	20	24.8	12.26	04/14/2025	16:01
8	Q1803-01	1	Solid	20.02	20	23.4	8.70	04/14/2025	16:10
9	Q1803-02	1	Solid	20.04	20	23.1	8.56	04/14/2025	16:14
10	Q1808-02	1	Solid	20.05	20	24.6	9.61	04/14/2025	16:20
11	Q1808-04	1	Solid	20.04	20	24.2	7.53	04/14/2025	16:25
12	CCV2	1	Water	NA	NA	20.3	12.02	04/14/2025	16:30

WORKLIST(Hardcopy Internal Chain)

UB 135420

WorkList Name : corrosivity q1800

WorkList ID : 188909

Department : Wet-Chemistry

Date : 04-14-2025 13:50:55

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1800-03	WC-A4-01-C	Solid	Corrosivity	Cool 4 deg C	ENTA05	L41	04/11/2025	9045D
Q1803-01	WEST-BAY	Solid	Corrosivity	Cool 4 deg C	SCAL01	L31	04/10/2025	9045D
Q1803-02	FUEL-MONITORING	Solid	Corrosivity	Cool 4 deg C	SCAL01	L31	04/10/2025	9045D
Q1808-02	OILY-SOIL-PILE	Solid	Corrosivity	Cool 4 deg C	PSEG03	L51	04/14/2025	9045D
Q1808-04	LAW-25-0060	Solid	Corrosivity	Cool 4 deg C	PSEG03	L51	04/14/2025	9045D

Date/Time 06-14-25 15:20

Raw Sample Received by: JB WPC

Raw Sample Relinquished by: JB WPC

Date/Time

06/14/25

18:00

Raw Sample Received by:

Raw Sample Relinquished by:

Analytical Summary Report

Analysis Method: 9045D

Analyst By : jignesh

Parameter: pH

Supervisor Review By : Iwona

Run Number: LB135421

Slope : 99.2

BalanceID: WC SC-7

pH Meter ID : WC PH METER-1

Calibration Standards	Chemtech Log#
PH 4 BUFFER SOLUTION	W3178
BUFFER PH 7.00 GREEN 1PINT PK6	W3093
PH 10.01 BUFFER,COLOR CD 475ML	W3191
buffer solution pH 7 yellow	W3071
Buffer Solution, PH2 (500ml)	W3161
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	20.2	4.01	04/14/2025	15:30
2	CAL2	1	Water	NA	NA	20.2	7.00	04/14/2025	15:31
3	CAL3	1	Water	NA	NA	20.3	10.02	04/14/2025	15:33
4	ICV	1	Water	NA	NA	20.3	7.02	04/14/2025	15:35
5	CCV1	1	Water	NA	NA	20.2	2.01	04/14/2025	15:40
6	Q1800-02	1	Solid	20.02	20	24.7	12.25	04/15/2025	16:00
7	Q1800-02DUP	1	Solid	20.03	20	24.8	12.26	04/14/2025	16:01
8	CCV2	1	Water	NA	NA	20.3	12.02	04/14/2025	16:30

WORKLIST(Hardcopy Internal Chain)

UB 135421

WorkList Name : ph q1800 s WorkList ID : 188910 Department : Wet-Chemistry Date : 04-14-2025 13:51:24

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1800-02	WC-A4-01-C	Solid	pH	Cool 4 deg C	ENTA05	L41	04/11/2025	9045D

Date/Time 04-14-25 15:20
Raw Sample Received by: SA WOC
Raw Sample Relinquished by: SA WOC

Date/Time 04-14-25 18:00
Raw Sample Received by: SA WOC
Raw Sample Relinquished by: SA WOC



Analytical Summary Report

Reviewed By: Iwona
On: 4/16/2025 3:46:35 PM
Inst Id
Filter/Gravimetric

Analysis Method: 9095B

Reviewed By: rubina

Parameter: Paint Filter

Supervisor Review By: Iwona

Run Number: LB135438

BalanceID: WC SC-7

Seq	LabID	ClientID	Dilution	Weight(g)	Inst. Conc (ml/100g)	Anal Date	Anal Time
1	Q1800-02	WC-A4-01-C	1	100.05	0.00	04/16/2025	10:00
2	Q1800-02DUP	WC-A4-01-CDUP	1	100.05	0.00	04/16/2025	10:08
3	Q1806-01	OR-03-041425	1	100.03	0.00	04/16/2025	10:16
4	Q1807-01	OK-02-041425	1	100.07	0.00	04/16/2025	10:23
5	Q1808-01	OILY-SOIL-PILE	1	100.02	0.00	04/16/2025	10:30
6	Q1808-03	LAW-25-0060	1	100.06	0.00	04/16/2025	10:38

WORKLIST(Hardcopy Internal Chain)

6135438

WorkList Name : pf4-15

WorkList ID : 188926

Department : Wet-Chemistry

Date : 04-15-2025 08:18:12

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1808-01 A	OILY-SOIL-PILE	Solid	Paint Filter	Cool 4 deg C	PSEG03	L51	04/14/2025	9095B
Q1808-03 C	LAW-25-0060	Solid	Paint Filter	Cool 4 deg C	PSEG03	L51	04/14/2025	9095B
Q1806-01 C	OR-03-041425	Solid	Paint Filter	Cool 4 deg C	PSEG05	L31	04/14/2025	9095B
Q1807-01 C	OK-02-041425	Solid	Paint Filter	Cool 4 deg C	PSEG05	L31	04/14/2025	9095B
Q1800-02 H	WC-A4-01-C	Solid	Paint Filter	Cool 4 deg C	ENTA05	L41	04/11/2025	9095B

Date/Time 04/16/2025 09:45
 Raw Sample Received by: RM CW
 Raw Sample Relinquished by: SP (WDC)

Date/Time 04/16/2025 11:50
 Raw Sample Received by: SP (WDC)
 Raw Sample Relinquished by: RM CW

613544

Test results

Aquakem 7.2AQ1

Page: 1

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

4/15/2025 15:11

Reviewed by : RM

Instrument ID : Konelab

Test: Total CN

Sample Id	Result	Dil. 1 +	Response	Errors
ICV1	90.121	0.0	0.073	
ICB1	1.376	0.0	0.001	
CCV1	236.852	0.0	0.192	
CCB1	1.425	0.0	0.001	
PB167581BL	0.957	0.0	0.000	
Q1779-04	0.963	0.0	0.000	
Q1779-04DUP	0.971	0.0	0.000	
Q1779-08	1.197	0.0	0.000	
Q1781-04	0.678	0.0	-0.000	
Q1781-08	1.378	0.0	0.001	
Q1781-12	1.360	0.0	0.001	
Q1787-12	1.281	0.0	0.000	
Q1788-04	1.163	0.0	0.000	
Q1791-07	1.632	0.0	0.001	
CCV2	234.399	0.0	0.190	
CCB2	1.231	0.0	0.000	
Q1800-03	0.708	0.0	-0.000	
Q1803-01	1.364	0.0	0.001	
Q1803-02	0.881	0.0	0.000	
Q1808-02	1.534	0.0	0.001	
Q1808-04	1.656	0.0	0.001	
PB167582BL	1.188	0.0	0.000	
Q1791-09	1.315	0.0	0.000	
Q1791-09DUP	1.361	0.0	0.001	
Q1791-10	1.350	0.0	0.000	
Q1791-11	1.468	0.0	0.001	
CCV3	234.658	0.0	0.191	
CCB3	1.285	0.0	0.000	
Q1791-12	1.163	0.0	0.000	
Q1791-13	1.426	0.0	0.001	
Q1810-01	1.618	0.0	0.001	
Q1810-02	1.275	0.0	0.000	
Q1791-14	1.346	0.0	0.000	
CCV4	245.397	0.0	0.199	
CCB4	1.490	0.0	0.001	
N	35			
Mean	30.842			
SD	76.9272			
CV%	249.42			

Aquakem v. 7.2AQ1

Results from time period:

Tue Apr 15 13:21:58 2025

Tue Apr 15 15:08:18 2025

Sample Id	Sam/Ctr/c/	Test short nar	Test type	Result	Result unit	Result date and time	Stat
0.0PPBCN	A	Total CN	P	0.9849	µg/l	4/15/2025 13:5143	
5.0PPBCN	A	Total CN	P	5.79	µg/l	4/15/2025 13:5144	
10PPBCN	A	Total CN	P	10.9704	µg/l	4/15/2025 13:5145	
50PPBCN	A	Total CN	P	49.8348	µg/l	4/15/2025 13:5146	
100PPBCN	A	Total CN	P	97.14	µg/l	4/15/2025 13:5147	
250PPBCN	A	Total CN	P	249.4372	µg/l	4/15/2025 13:5148	
500PPBCN	A	Total CN	P	500.8426	µg/l	4/15/2025 13:5149	
ICV1	S	Total CN	P	90.1206	µg/l	4/15/2025 14:3409	
ICB1	S	Total CN	P	1.3756	µg/l	4/15/2025 14:3411	
CCV1	S	Total CN	P	236.8517	µg/l	4/15/2025 14:3413	
CCB1	S	Total CN	P	1.425	µg/l	4/15/2025 14:3415	
PB167581BL	S	Total CN	P	0.9571	µg/l	4/15/2025 14:3416	
Q1779-04	S	Total CN	P	0.9633	µg/l	4/15/2025 14:4143	
Q1779-04DUP	S	Total CN	P	0.9709	µg/l	4/15/2025 14:4145	
Q1779-08	S	Total CN	P	1.1969	µg/l	4/15/2025 14:4146	
Q1781-04	S	Total CN	P	0.678	µg/l	4/15/2025 14:4147	
Q1781-08	S	Total CN	P	1.3782	µg/l	4/15/2025 14:4148	
Q1781-12	S	Total CN	P	1.3601	µg/l	4/15/2025 14:4149	
Q1787-12	S	Total CN	P	1.2812	µg/l	4/15/2025 14:4150	
Q1788-04	S	Total CN	P	1.1627	µg/l	4/15/2025 14:4151	
Q1791-07	S	Total CN	P	1.6319	µg/l	4/15/2025 14:4918	
CCV2	S	Total CN	P	234.3995	µg/l	4/15/2025 14:4920	
CCB2	S	Total CN	P	1.2307	µg/l	4/15/2025 14:4921	
Q1800-03	S	Total CN	P	0.7075	µg/l	4/15/2025 14:4923	
Q1803-01	S	Total CN	P	1.3639	µg/l	4/15/2025 14:4924	
Q1803-02	S	Total CN	P	0.8813	µg/l	4/15/2025 14:4925	
Q1808-02	S	Total CN	P	1.5337	µg/l	4/15/2025 14:4926	
Q1808-04	S	Total CN	P	1.656	µg/l	4/15/2025 14:4927	
PB167582BL	S	Total CN	P	1.1883	µg/l	4/15/2025 14:5651	
Q1791-09	S	Total CN	P	1.3152	µg/l	4/15/2025 14:5653	
Q1791-09DUP	S	Total CN	P	1.3611	µg/l	4/15/2025 14:5656	
Q1791-10	S	Total CN	P	1.3495	µg/l	4/15/2025 14:5657	
Q1791-11	S	Total CN	P	1.4682	µg/l	4/15/2025 14:5658	
CCV3	S	Total CN	P	234.6582	µg/l	4/15/2025 15:0426	
CCB3	S	Total CN	P	1.2849	µg/l	4/15/2025 15:0428	
Q1791-12	S	Total CN	P	1.1634	µg/l	4/15/2025 15:0429	
Q1791-13	S	Total CN	P	1.4259	µg/l	4/15/2025 15:0430	
Q1810-01	S	Total CN	P	1.6183	µg/l	4/15/2025 15:0432	
Q1810-02	S	Total CN	P	1.275	µg/l	4/15/2025 15:0433	
Q1791-14	S	Total CN	P	1.3461	µg/l	4/15/2025 15:0434	
CCV4	S	Total CN	P	245.3972	µg/l	4/15/2025 15:0816	
CCB4	S	Total CN	P	1.4898	µg/l	4/15/2025 15:0817	

Calibration results

Aquakem 7.2AQ1

Page:

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

Reviewed by : RM

Instrument ID : Konelab

4/15/2025 13:52

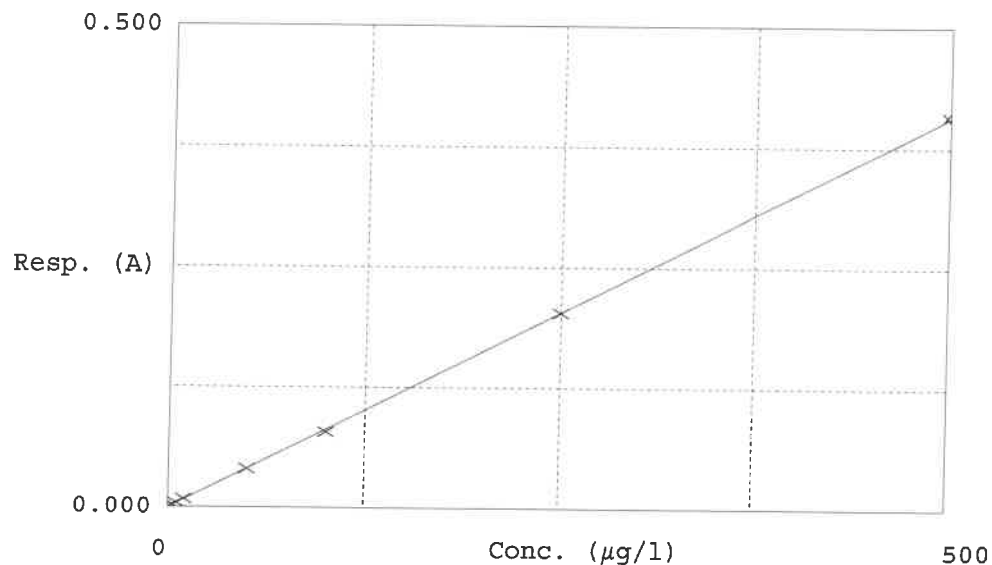
Test Total CN

Accepted 4/15/2025 13:52

Factor 1227
Bias -0.001

Coeff. of det. 0.999943

Errors



	Calibrator	Response	Calc. con.	Conc.	Errors
1	0.0PPBCN	0.000	0.9849	0.0000	15.8
2	5.0PPBCN	0.004	5.7900	5.0000	9.7
3	10PPBCN	0.008	10.9704	10.0000	-0.3
4	50PPBCN	0.040	49.8348	50.0000	-2.9
5	100PPBCN	0.079	97.1400	100.0000	-0.2
6	250PPBCN	0.203	249.4372	250.0000	0.2
7	500PPBCN	0.408	500.8426	500.0000	

04/15/2025
RM

Analysis Method: 9034

ANALYST: rubina

Parameter: Reactive Sulfide

SUPERVISOR REVIEW BY: Iwona

Run Number: LB135442

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	PB167580BL		1	5.00	50	2.00	0.00	1.92	1.92	0.08	0.00	0.00	04/15/2025	15:10
2	Q1779-04		1	5.02	50	2.00	0.00	1.90	1.90	0.10	0.02	1.59	04/15/2025	15:13
3	Q1779-04DUP		1	5.02	50	2.00	0.00	1.90	1.90	0.10	0.02	1.59	04/15/2025	15:16
4	Q1779-08		1	5.04	50	2.00	0.00	1.88	1.88	0.12	0.04	3.17	04/15/2025	15:18
5	Q1781-04		1	5.01	50	2.00	0.00	1.90	1.90	0.10	0.02	1.60	04/15/2025	15:20
6	Q1781-08		1	5.07	50	2.00	0.00	1.88	1.88	0.12	0.04	3.16	04/15/2025	15:23
7	Q1781-12		1	5.01	50	2.00	0.00	1.86	1.86	0.14	0.06	4.79	04/15/2025	15:25
8	Q1787-12		1	5.07	50	2.00	0.00	1.90	1.90	0.10	0.02	1.58	04/15/2025	15:27
9	Q1788-04		1	5.05	50	2.00	0.00	1.90	1.90	0.10	0.02	1.58	04/15/2025	15:30
10	Q1791-07		1	5.07	50	2.00	0.00	1.90	1.90	0.10	0.02	1.58	04/15/2025	15:33
11	Q1800-03		1	5.06	50	2.00	0.00	1.86	1.86	0.14	0.06	4.74	04/15/2025	15:36
12	Q1803-01		1	5.04	50	2.00	0.00	1.86	1.86	0.14	0.06	4.76	04/15/2025	15:39

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: LB135442

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	Q1803-02		1	5.07	50	2.00	0.00	1.90	1.90	0.10	0.02	1.58	04/15/2025	15:41
14	Q1808-02		1	5.08	50	2.00	0.00	1.90	1.90	0.10	0.02	1.57	04/15/2025	15:43
15	Q1808-04		1	5.01	50	2.00	0.00	1.88	1.88	0.12	0.04	3.19	04/15/2025	15:45

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

Extraction and Analytical Summary Report

Analysis Method: 9071B
Test: Oil and Grease
Run Number: LB135450
Analysis Date: 04/16/2025
BalanceID: WC SC-6
OvenID: EXT OVEN-3

ANALYST: jignesh
REVIEWED BY: Iwona
Extraction Date: 04/16/2025
Extraction IN Time: 11:10
Extraction OUT Time: 12:25
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	LB135450BL	LB135450BL	SOLID		20.02	100	2.7463	2.7463	0	2.7464	2.7464	0.0001	5
2	LB135450BS	LB135450BS	SOLID		20.03	100	3.1485	3.1485	0	3.1504	3.1504	0.0019	94.86
3	Q1800-02	WC-A4-01-C	SOLID		20.04	100	3.0084	3.0084	0	3.0288	3.0288	0.0204	1017.96
4	Q1800-02DUP	WC-A4-01-CDUP	SOLID		20.02	100	3.0366	3.0366	0	3.0573	3.0573	0.0207	1033.97
5	Q1800-02MS	WC-A4-01-C	SOLID		20.04	100	3.0633	3.0633	0	3.0862	3.0862	0.0229	1142.71
6	Q1800-02MSD	WC-A4-01-C	SOLID		20.05	100	3.0737	3.0737	0	3.0962	3.0962	0.0225	1122.19



Alliance
TECHNICAL GROUP

Test: Oil and Grease

Analysis Date: 04/16/2025

Chemicals Used:

Chemical Name	Chemical Lot #
HEXANE	W3177
pH Paper 0-14	NA
Sodium Sulfate	EP2599
1:1 HCL	WP110826
Silica Gel	NA
Sand	E2865

Standards Used:

Standard Name	Amount Used	Standard Lot #
LCSS	1.00 ML	WP110829
LCSSD	NA	NA
MS/MSD	1.00 ML	WP110830

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 : 13:46

1.0000 gram Balance: 1.0004 (0.9950-1.0050) In Time1: 13:00

Bal Check Time: 11:25 Out OVEN TEMP1: 70 °C Dessicator Time Out1: 14:25

Out Time1: 13:45

After Analysis

0.0020 gram Balance: 0.0021 (0.0018-0.0022) In OVEN TEMP2 : 71 °C Dessicator Time In2 : 15:31

1.0000 gram Balance: 1.0005 (0.9950-1.0050) In Time2: 15:00

Bal Check Time: 16:01 Out OVEN TEMP2: 71 °C Dessicator Time Out2: 16:00

Out Time2: 15:30

WORKLIST(Hardcopy Internal Chain)

135450

WorkList Name : oil & grease q1800

WorkList ID : 188961

Department : Wet-Chemistry

Date : 04-16-2025 10:46:59

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1800-02	WC-A4-01-C	Solid	Oil and Grease	Cool 4 deg C	ENTA05	L41	04/11/2025	9071B

Date/Time 04-16-25 11:00

Raw Sample Received by: [Signature]

Raw Sample Relinquished by: [Signature]

Date/Time 04-16-25

Raw Sample Received by: [Signature]

Raw Sample Relinquished by: [Signature]

TOTAL SOLIDS - SM2540B

SUPERVISOR: Iwona

ANALYST: jignesh

Date: 04/16/2025

Run Number: LB135451

BalanceID: WC SC-5

OvenID: WC OVEN-1

ThermometerID: WET OVEN#1

TEMP1 IN: 104 °C 04/16/2025 11:00 **TEMP1 OUT:** 104 °C 04/16/2025 12:00
TEMP2 IN: 103 °C 04/16/2025 12:30 **TEMP2 OUT:** 104 °C 04/16/2025 13:30
TEMP3 IN: 104 °C 04/16/2025 15:40 **TEMP3 OUT:** 103 °C 04/17/2025 08:00
TEMP4 IN: 104 °C 04/17/2025 08:30 **TEMP4 OUT:** 103 °C 04/17/2025 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	LB135451BL	LB135451BL	80.3671	80.3671	100	80.3671	80.3671	80.3671	0.0000	0
2	Q1800-04	WC-A4-01-C	110.2039	110.2039	100	110.3124	110.3124	110.3120	0.1085	1085
3	Q1800-04DUP	WC-A4-01-CDUP	106.1295	106.1295	100	106.2328	106.2328	106.2330	0.1033	1033

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)

JB 105451

WorkList Name : ASTM TS Q1800

WorkList ID : 188965

Department : Wet-Chemistry

Date : 04-16-2025 11:42:50

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1800-04	WC-A4-01-C	Solid	ASTM TS	Cool 4 deg C	ENTA05	L41	04/11/2025	SM2540 B

Date/Time 04-16-25 11:50
Raw Sample Received by: JB WWC
Raw Sample Relinquished by: JB WWC

Date/Time 04-16-25 16:10
Raw Sample Received by: JB WWC
Raw Sample Relinquished by: JB WWC

Extraction and Analytical Summary Report

Analysis Method: 1664A
Test: ASTM Oil and Grease
Run Number: LB135454
Analysis Date: 04/16/2025
BalanceID: WC SC-6
OvenID: EXT OVEN-3

ANALYST: jignesh
REVIEWED BY: Iwona
Extraction Date: 04/16/2025
Extraction IN Time: 12:10
Extraction OUT Time: 12:34
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	LB135454BL	LB135454BL	WATER	1.3	1000	100	3.1456	3.1456	0	3.1457	3.1457	0.0001	0.1
2	LB135454BS	LB135454BS	WATER	1.3	1000	100	2.7413	2.7413	0	2.7581	2.7581	0.0168	16.8
3	Q1800-04	WC-A4-01-C	WATER	1.3	1000	100	3.1456	3.1456	0	3.1459	3.1459	0.0003	0.3
4	Q1800-04DUP	WC-A4-01-CDUP	WATER	1.3	1000	100	2.8741	2.8741	0	2.8744	2.8744	0.0003	0.3
5	Q1800-04MS	WC-A4-01-C	WATER	1.3	1000	100	3.1903	3.1903	0	3.2106	3.2106	0.0203	20.3
6	Q1800-04MSD	WC-A4-01-C	WATER	1.3	1000	100	2.7401	2.7401	0	2.7606	2.7606	0.0205	20.5

QC Batch# LB135454

Test: ASTM Oil and Grease

Analysis Date: 04/16/2025

Chemicals Used:

Chemical Name	Chemical Lot #
HEXANE	W3177
pH Paper 0-14	M6069
Sodium Sulfate	EP2599
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 : 71 °C Dessicator Time In1 : 14:01

1.0000 gram Balance: 1.0004 (0.9950-1.0050) In Time1: 13:30

Bal Check Time: 12:25 Out OVEN TEMP1: 70 °C Dessicator Time Out1: 14:30

Out Time1: 14:00

After Analysis

0.0020 gram Balance: 0.0019 (0.0018-0.0022) In OVEN TEMP2 : 71 °C Dessicator Time In2 : 15:31

1.0000 gram Balance: 1.0003 (0.9950-1.0050) In Time2: 15:00

Bal Check Time: 16:01 Out OVEN TEMP2: 71 °C Dessicator Time Out2: 16:00

Out Time2: 15:30

WORKLIST(Hardcopy Internal Chain)

2135454

WorkList Name : ASTM OIL & GREASE Q WorkList ID : 188966 Department : Wet-Chemistry Date : 04-16-2025 11:44:13

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1800-04	WC-A4-01-C	Solid	ASTM Oil and Grease	Cool 4 deg C	ENTA05	L41	04/11/2025	1664A

Date/Time 04-16-25 11:45
Raw Sample Received by: [Signature]
Raw Sample Relinquished by: [Signature]

Date/Time 04-16-25 17:00
Raw Sample Received by: [Signature]
Raw Sample Relinquished by: [Signature]

Analytical Summary Report

Analysis Method: SM5220 D

ANALYST: Iwona

Parameter: ASTM COD

SUPERVISOR REVIEW BY: jignesh

Run Number: LB135458

Reagent/Standard	Lot/Log #
COD ICV-LCS std, 50ppm	WP111522
COD calibration std. 100 ppm	WP111519
COD calibration std. 10 ppm	WP111517
COD calibration std. 150 ppm	WP111520
COD calibration std. 50 ppm	WP111518
COD calibration std. 0 ppm	WP111516
COD Digestion Vials Low Level 0-150Mg/L	W3127
COD ICV-LCS std, 50ppm	WP112718
COD CCV std, 50ppm	WP112717

Temp In (C): 148	Date In: 04/16/2025	Time In: 11:35
Temp Out (C): 151	Date Out: 04/16/2025	Time Out: 13:35

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: Iwona

Parameter: ASTM COD

SUPERVISOR REVIEW BY: jignesh

Run Number: LB135458

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	04/16/2025	15:00
4	CCB1		NA	NA	1	Water	1.000	0.824	04/16/2025	15:00
5	LB135458BL		NA	NA	1	Water	1.000	0.824	04/16/2025	15:01
6	LB135458BS	50	NA	NA	1	Water	51.000	50.319	04/16/2025	15:01
7	Q1800-04		NA	NA	1	Water	46.000	45.370	04/16/2025	15:02
8	Q1800-04DUP		NA	NA	1	Water	45.000	44.380	04/16/2025	15:02
9	Q1800-04MS	50	NA	NA	1	Water	91.000	89.915	04/16/2025	15:03
10	Q1800-04MSD	50	NA	NA	1	Water	93.000	91.895	04/16/2025	15:03
11	CCV2	50	NA	NA	1	Water	49.000	48.339	04/16/2025	15:04
12	CCB2		NA	NA	1	Water	1.000	0.824	04/16/2025	15:04

WORKLIST(Hardcopy Internal Chain)

LB135458

WorkList Name : ASTM COD-041625

WorkList ID : 188970

Department : Wet-Chemistry

Date : 04-16-2025 09:46:48

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1800-04	WC-A4-01-C	Solid	ASTM COD	Cool 4 deg C	ENTA05	L41	04/11/2025	SM5220 D

Date/Time 04/16/25 11:10
Raw Sample Received by: [Signature]
Raw Sample Relinquished by: [Signature]

Date/Time
Raw Sample Received by:
Raw Sample Relinquished by:

NA
'1
'1

LB135483

Test results

Aquakem 7.2AQ1

Page: 1

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

4/18/2025 12:00

Reviewed by : RM Instrument ID : Konelab

Test: Ammonia-N

Sample Id	Result	Dil. 1 +	Response	Errors
ICV1	0.932	0.0	0.190	
ICB1	0.002	0.0	0.017	
CCV1	0.954	0.0	0.194	
CCB1	0.002	0.0	0.017	
RL CHECK	0.088	0.0	0.033	
PB167640BL	0.002	0.0	0.018	
PB167640BS	0.944	0.0	0.192	
PB167640TB	0.003	0.0	0.018	
Q1800-04	0.417	0.0	0.094	
Q1800-04DUP	0.429	0.0	0.097	
Q1800-04MS	1.429	0.0	0.282	
Q1800-04MSD	1.364	0.0	0.270	
CCV2	0.997	0.0	0.202	
CCB2	0.007	0.0	0.018	

88! (50-150) 04/18/2025
RM

N 14
Mean 0.541
SD 0.5434
CV% 100.50

Aquakem v. 7.2AQ1

Results from time period:

Fri Apr 18 11:43:12 2025

Fri Apr 18 12:00:01 2025

Sample Id	Sam/Ctr/c/	Test short r	Test type	Result	Result unit	Result date and time	Stat
0.0PPM	A	Ammonia-† P		0.0062	mg/l	4/18/2025 8:45:14	
0.1PPM	A	Ammonia-† P		0.1114	mg/l	4/18/2025 8:45:15	
0.2PPM	A	Ammonia-† P		0.1975	mg/l	4/18/2025 8:45:16	
0.4PPM	A	Ammonia-† P		0.3814	mg/l	4/18/2025 8:45:17	
1.0PPM	A	Ammonia-† P		0.9971	mg/l	4/18/2025 8:45:18	
1.3PPM	A	Ammonia-† P		1.3383	mg/l	4/18/2025 8:45:19	
2.0PPM	A	Ammonia-† P		2.0016	mg/l	4/18/2025 8:45:20	
ICV1	S	Ammonia-† P		0.9316	mg/l	4/18/2025 11:43:12	
ICB1	S	Ammonia-† P		0.0017	mg/l	4/18/2025 11:43:14	
CCV1	S	Ammonia-† P		0.9538	mg/l	4/18/2025 11:43:16	
CCB1	S	Ammonia-† P		0.0016	mg/l	4/18/2025 11:43:19	
RL CHECK	S	Ammonia-† P		0.0881	mg/l	4/18/2025 11:43:20	
PB167640BL	S	Ammonia-† P		0.0023	mg/l	4/18/2025 11:43:22	
PB167640BS	S	Ammonia-† P		0.9445	mg/l	4/18/2025 11:53:54	
PB167640TB	S	Ammonia-† P		0.003	mg/l	4/18/2025 11:53:57	
Q1800-04	S	Ammonia-† P		0.417	mg/l	4/18/2025 11:53:58	
Q1800-04DUP	S	Ammonia-† P		0.4293	mg/l	4/18/2025 11:54:01	
Q1800-04MS	S	Ammonia-† P		1.4289	mg/l	4/18/2025 11:54:02	
Q1800-04MSD	S	Ammonia-† P		1.3639	mg/l	4/18/2025 11:54:03	
CCV2	S	Ammonia-† P		0.9974	mg/l	4/18/2025 11:59:58	
CCB2	S	Ammonia-† P		0.0072	mg/l	4/18/2025 12:00:01	

Calibration results

Aquakem 7.2AQ1

Page: 1

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

4/18/2025 8:48

Reviewed by : RM

Instrument ID : Konelab

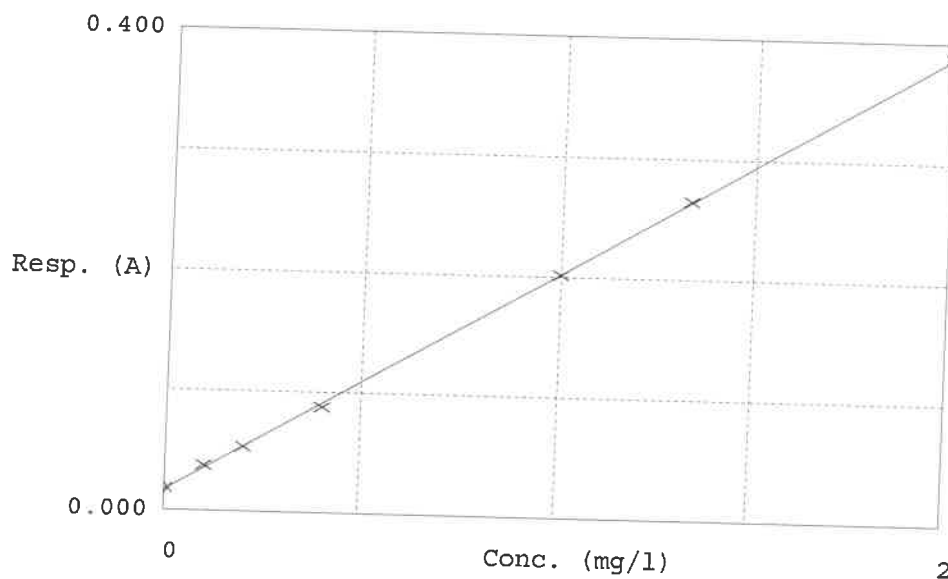
Test Ammonia-N

Accepted 4/18/2025 8:47

Factor 5.403
Bias 0.017

Coeff. of det. 0.999835

Errors



	Calibrator	Response	Calc. con.	Conc.	Errors
1	0.00PPM	0.018	0.0062	0.0000	-
2	NH3-2PPM	0.038	0.1114	0.1000	11.4
3	NH3-2PPM	0.054	0.1975	0.2000	-1.3
4	NH3-2PPM	0.088	0.3814	0.4000	4.7
5	NH3-2PPM	0.202	0.9971	1.0000	-0.3
6	NH3-2PPM	0.265	1.3383	1.3333	2.4
7	NH3-2PPM	0.388	2.0016	2.0000	0.1

04/18/2025
RM

SOP ID : M9030B-Sulfide-12

SDG No : N/A

Start Digest Date: 04/15/2025 Time : 12:30 Temp : N/A

Matrix : SOIL

End Digest Date: 04/15/2025 Time : 14:00 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

Extraction Conformance/Non-Conformance Comments:

04/15/2025 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
PB167580BL	PBS580	5.00	50	N/A	N/A	N/A	N/A	N/A	N/A
Q1779-04DUP	TP-22DUP	5.02	50	N/A	N/A	N/A	N/A	N/A	N/A
Q1779-04	TP-22	5.02	50	N/A	N/A	N/A	N/A	N/A	N/A
Q1779-08	TP-23	5.04	50	N/A	N/A	N/A	N/A	N/A	N/A
Q1781-04	WC-13	5.01	50	N/A	N/A	N/A	N/A	N/A	N/A
Q1781-08	WC-12	5.07	50	N/A	N/A	N/A	N/A	N/A	N/A
Q1781-12	WC-11	5.01	50	N/A	N/A	N/A	N/A	N/A	N/A
Q1787-12	TP-1	5.07	50	N/A	N/A	N/A	N/A	N/A	N/A
Q1788-04	WC-1	5.05	50	N/A	N/A	N/A	N/A	N/A	N/A
Q1791-07	290502	5.07	50	N/A	N/A	N/A	N/A	N/A	N/A
Q1800-03	WC-A4-01-C	5.06	50	N/A	N/A	N/A	N/A	N/A	N/A
Q1803-01	WEST-BAY	5.04	50	N/A	N/A	N/A	N/A	N/A	N/A
Q1803-02	FUEL-MONITORING	5.07	50	N/A	N/A	N/A	N/A	N/A	N/A
Q1808-02	OILY-SOIL-PILE	5.08	50	N/A	N/A	N/A	N/A	N/A	N/A
Q1808-04	LAW-25-0060	5.01	50	N/A	N/A	N/A	N/A	N/A	N/A

WORKLIST(Hardcopy Internal Chain)

WorkList Name : rsul-4-15

WorkList ID : 188920

Department : Distillation

Date : 04-15-2025 08:11:43

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1779-04	TP-22	Solid	Reactive Sulfide	Cool 4 deg C	PSEG03	F11	04/10/2025	9034
Q1779-08	TP-23	Solid	Reactive Sulfide	Cool 4 deg C	PSEG03	F11	04/10/2025	9034
Q1781-04	WC-13	Solid	Reactive Sulfide	Cool 4 deg C	PSEG03	F11	04/10/2025	9034
Q1781-08	WC-12	Solid	Reactive Sulfide	Cool 4 deg C	PSEG03	F11	04/10/2025	9034
Q1781-12	WC-11	Solid	Reactive Sulfide	Cool 4 deg C	PSEG03	F11	04/10/2025	9034
Q1787-12	TP-1	Solid	Reactive Sulfide	Cool 4 deg C	PSEG03	L41	04/10/2025	9034
Q1788-04	WC-1	Solid	Reactive Sulfide	Cool 4 deg C	PSEG03	L31	04/11/2025	9034
Q1791-07	290502	Solid	Reactive Sulfide	Cool 4 deg C	PSEG03	L41	04/11/2025	9034
Q1800-03	WC-A4-01-C	Solid	Reactive Sulfide	Cool 4 deg C	ENTA05	L41	04/11/2025	9034
Q1803-01	WEST-BAY	Solid	Reactive Sulfide	Cool 4 deg C	SCAL01	L31	04/10/2025	9034
Q1803-02	FUEL-MONITORING	Solid	Reactive Sulfide	Cool 4 deg C	SCAL01	L31	04/10/2025	9034
Q1808-02	OILY-SOIL-PILE	Solid	Reactive Sulfide	Cool 4 deg C	PSEG03	L51	04/14/2025	9034
Q1808-04	LAW-25-0060	Solid	Reactive Sulfide	Cool 4 deg C	PSEG03	L51	04/14/2025	9034

Date/Time 04/15/2025 08:15
 Raw Sample Received by: RM (w/c)
 Raw Sample Relinquished by: RM (w/c)

Date/Time 04/15/2025 12:50
 Raw Sample Received by: Ad (w/c)
 Raw Sample Relinquished by: RM (w/c)

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

SDG No : N/A

Start Digest Date: 04/15/2025 Time : 08:45 Temp : N/A

Matrix : SOIL

End Digest Date: 04/15/2025 Time : 10:15 Temp : N/A

Pipette ID : N/A

Balance ID : WC SC-7

Hood ID : HOOD#1

Digestion tube ID : M5595

Block Thermometer ID : WC CYANIDE

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

Standard Name	MLS USED	STD REF. # FROM LOG
PBS003	50ML	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
0.25N 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
04/15/2025 10:25	RM WCL	RM WCL
	Preparation Group	Analysis Group

Lab Sample ID	Client Sample ID	Initial Weight (g)	Final Vol (ml)	pH	Sulfide	Oxidizing	Nitrate/ Nitrite	Comment	Prep Pos
PB167581BL	PBS581	5.00	50	N/A	N/A	N/A	N/A	N/A	N/A
Q1779-04DUP	TP-22DUP	5.07	50	N/A	N/A	N/A	N/A	N/A	N/A
Q1779-04	TP-22	5.07	50	N/A	N/A	N/A	N/A	N/A	N/A
Q1779-08	TP-23	5.04	50	N/A	N/A	N/A	N/A	N/A	N/A
Q1781-04	WC-13	5.03	50	N/A	N/A	N/A	N/A	N/A	N/A
Q1781-08	WC-12	5.07	50	N/A	N/A	N/A	N/A	N/A	N/A
Q1781-12	WC-11	5.01	50	N/A	N/A	N/A	N/A	N/A	N/A
Q1787-12	TP-1	5.05	50	N/A	N/A	N/A	N/A	N/A	N/A
Q1788-04	WC-1	5.05	50	N/A	N/A	N/A	N/A	N/A	N/A
Q1791-07	290502	5.03	50	N/A	N/A	N/A	N/A	N/A	N/A
Q1800-03	WC-A4-01-C	5.02	50	N/A	N/A	N/A	N/A	N/A	N/A
Q1803-01	WEST-BAY	5.03	50	N/A	N/A	N/A	N/A	N/A	N/A
Q1803-02	FUEL-MONITORING	5.05	50	N/A	N/A	N/A	N/A	N/A	N/A
Q1808-02	OILY-SOIL-PILE	5.08	50	N/A	N/A	N/A	N/A	N/A	N/A
Q1808-04	LAW-25-0060	5.01	50	N/A	N/A	N/A	N/A	N/A	N/A

WORKLIST(Hardcopy Internal Chain)

WorkList Name : rcn-4-15

WorkList ID : 188923

Department : Distillation

Date : 04-15-2025 08:11:58

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1779-04	TP-22	Solid	Reactive Cyanide	Cool 4 deg C	PSEG03	F11	04/10/2025	9012B
Q1779-08	TP-23	Solid	Reactive Cyanide	Cool 4 deg C	PSEG03	F11	04/10/2025	9012B
Q1781-04	WC-13	Solid	Reactive Cyanide	Cool 4 deg C	PSEG03	F11	04/10/2025	9012B
Q1781-08	WC-12	Solid	Reactive Cyanide	Cool 4 deg C	PSEG03	F11	04/10/2025	9012B
Q1781-12	WC-11	Solid	Reactive Cyanide	Cool 4 deg C	PSEG03	F11	04/10/2025	9012B
Q1787-12	TP-1	Solid	Reactive Cyanide	Cool 4 deg C	PSEG03	F11	04/10/2025	9012B
Q1788-04	WC-1	Solid	Reactive Cyanide	Cool 4 deg C	PSEG03	L41	04/10/2025	9012B
Q1791-07	290502	Solid	Reactive Cyanide	Cool 4 deg C	PSEG03	L31	04/11/2025	9012B
Q1800-03	WC-A4-01-C	Solid	Reactive Cyanide	Cool 4 deg C	PSEG03	L41	04/11/2025	9012B
Q1803-01	WEST-BAY	Solid	Reactive Cyanide	Cool 4 deg C	ENTA05	L41	04/11/2025	9012B
Q1803-02	FUEL-MONITORING	Solid	Reactive Cyanide	Cool 4 deg C	SCAL01	L31	04/10/2025	9012B
Q1808-02	OILY-SOIL-PILE	Solid	Reactive Cyanide	Cool 4 deg C	SCAL01	L31	04/10/2025	9012B
Q1808-04	LAW-25-0060	Solid	Reactive Cyanide	Cool 4 deg C	PSEG03	L51	04/14/2025	9012B
					PSEG03	L51	04/14/2025	9012B

Date/Time 04/15/2025 08:15
 Raw Sample Received by: RM (w/c)
 Raw Sample Relinquished by: [Signature]

Date/Time 04/15/2025 12:50
 Raw Sample Received by: [Signature]
 Raw Sample Relinquished by: RM (w/c)

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

SDG No : N/A

Start Digest Date: 04/17/2025 Time : 09:10 Temp : 150 °C

Matrix : WATER

End Digest Date: 04/17/2025 Time : 10:10 Temp : 160 °C

Pipette ID : WC

Balance ID : WC SC-7

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
LCSS	1.0ML	WP112614
MS/MSD SPIKE SOL.	1.0ML	WP112613
PBW	50.0ML	W3112
RL CHECK	0.1ML	WP112613
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
04/17/2025 10:20	RM CWL	RM CWL
	Preparation Group	Analysis Group

Lab Sample ID	Client Sample ID	Initial Vol (ml)	Final Vol (ml)	pH	Sulfide	Oxidizing	Nitrate/ Nitrite	Comment	Prep Pos
PB167640BL	PBW640	50	50	<2	N/A	Negative	N/A	AFTER ADDING 6N NAOH PH IS 9.5	N/A
PB167640BS	LCS640	50	50	<2	N/A	Negative	N/A	AFTER ADDING 6N NAOH PH IS 9.5	N/A
PB167640TB	LEB640	50	50	<2	N/A	Negative	N/A	AFTER ADDING 6N NAOH PH IS 9.5	N/A
Q1800-04DUP	WC-A4-01-CDUP	50	50	<2	N/A	Negative	N/A	AFTER ADDING 6N NAOH PH IS 9.5	N/A
Q1800-04MS	WC-A4-01-CMS	50	50	<2	N/A	Negative	N/A	AFTER ADDING 6N NAOH PH IS 9.5	N/A
Q1800-04MSD	WC-A4-01-CMSD	50	50	<2	N/A	Negative	N/A	AFTER ADDING 6N NAOH PH IS 9.5	N/A
Q1800-04	WC-A4-01-C	50	50	<2	N/A	Negative	N/A	AFTER ADDING 6N NAOH PH IS 9.5	N/A

Instrument ID: FLAME

Daily Analysis Runlog For Sequence/QC Batch ID # LB135415

Review By	Iwona	Review On	4/14/2025 4:46:46 PM
Supervise By	sohil	Supervise On	4/14/2025 4:47:22 PM
SubDirectory	LB135415	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	Q1764-01	BUR-25-0020	SAM	04/14/25 12:00		rubina	OK
2	Q1764-01DUP	BUR-25-0020DUP	DUP	04/14/25 12:07		rubina	OK
3	Q1767-04	NWB-2106	SAM	04/14/25 12:15		rubina	OK
4	Q1787-09	TP-1	SAM	04/14/25 12:22		rubina	OK
5	Q1787-12	TP-1	SAM	04/14/25 12:30		rubina	OK
6	Q1788-01	WC-1	SAM	04/14/25 12:38		rubina	OK
7	Q1788-04	WC-1	SAM	04/14/25 12:45		rubina	OK
8	Q1791-07	290502	SAM	04/14/25 12:52		rubina	OK
9	Q1794-01	40325-C-G-COMP	SAM	04/14/25 13:00		rubina	OK
10	Q1795-01	40425	SAM	04/14/25 13:08		rubina	OK
11	Q1800-03	WC-A4-01-C	SAM	04/14/25 13:15		rubina	OK
12	Q1803-01	WEST-BAY	SAM	04/14/25 13:22		rubina	OK
13	Q1803-02	FUEL-MONITORING	SAM	04/14/25 13:30		rubina	OK

Instrument ID: WC SC-3

Daily Analysis Runlog For Sequence/QC Batch ID # LB135417

Review By	jignesh	Review On	4/15/2025 10:28:58 AM
Supervise By	Iwona	Supervise On	4/15/2025 12:03:44 PM
SubDirectory	LB135417	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	LB135417BL	LB135417BL	MB	04/14/25 11:00		jignesh	OK
2	Q1800-02	WC-A4-01-C	SAM	04/14/25 11:00		jignesh	OK
3	Q1800-02DUP	WC-A4-01-CDUP	DUP	04/14/25 11:00		jignesh	OK

Instrument ID: WC SC-3

Daily Analysis Runlog For Sequence/QC Batch ID # LB135418

Review By	jignesh	Review On	4/15/2025 10:38:50 AM
Supervise By	Iwona	Supervise On	4/15/2025 12:03:32 PM
SubDirectory	LB135418	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	LB135418BL	LB135418BL	MB	04/14/25 16:00		jignesh	OK
2	Q1800-02	WC-A4-01-C	SAM	04/14/25 16:00		jignesh	OK
3	Q1800-02DUP	WC-A4-01-CDUP	DUP	04/14/25 16:00		jignesh	OK

Instrument ID: WC PH METER-1

Daily Analysis Runlog For Sequence/QC Batch ID # LB135420

Review By	jignesh	Review On	4/15/2025 8:31:49 AM
Supervise By	Iwona	Supervise On	4/15/2025 12:03:10 PM
SubDirectory	LB135420	Test	Corrosivity
STD. NAME	STD REF.#		
ICAL Standard	N/A		
ICV Standard	N/A		
CCV Standard	N/A		
ICSA Standard	N/A		
CRI Standard	N/A		
LCS Standard	N/A		
Chk Standard	W3178,W3093,W3191,W3071,W3161,W3072		

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	CAL1	CAL1	CAL	04/14/25 15:30		Jignesh	OK
2	CAL2	CAL2	CAL	04/14/25 15:31		Jignesh	OK
3	CAL3	CAL3	CAL	04/14/25 15:33		Jignesh	OK
4	ICV	ICV	ICV	04/14/25 15:35		Jignesh	OK
5	CCV1	CCV1	CCV	04/14/25 15:40		Jignesh	OK
6	Q1800-03	WC-A4-01-C	SAM	04/14/25 16:00		Jignesh	OK
7	Q1800-03DUP	WC-A4-01-CDUP	DUP	04/14/25 16:01		Jignesh	OK
8	Q1803-01	WEST-BAY	SAM	04/14/25 16:10		Jignesh	OK
9	Q1803-02	FUEL-MONITORING	SAM	04/14/25 16:14		Jignesh	OK
10	Q1808-02	OILY-SOIL-PILE	SAM	04/14/25 16:20		Jignesh	OK
11	Q1808-04	LAW-25-0060	SAM	04/14/25 16:25		Jignesh	OK
12	CCV2	CCV2	CCV	04/14/25 16:30		Jignesh	OK

Instrument ID: WC PH METER-1

Daily Analysis Runlog For Sequence/QC Batch ID # LB135421

Review By	jignesh	Review On	4/15/2025 8:40:56 AM
Supervise By	Iwona	Supervise On	4/15/2025 12:02:40 PM
SubDirectory	LB135421	Test	pH
STD. NAME	STD REF.#		
ICAL Standard	N/A		
ICV Standard	N/A		
CCV Standard	N/A		
ICSA Standard	N/A		
CRI Standard	N/A		
LCS Standard	N/A		
Chk Standard	W3178,W3093,W3191,W3071,W3161,W3072		

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	CAL1	CAL1	CAL	04/14/25 15:30		Jignesh	OK
2	CAL2	CAL2	CAL	04/14/25 15:31		Jignesh	OK
3	CAL3	CAL3	CAL	04/14/25 15:33		Jignesh	OK
4	ICV	ICV	ICV	04/14/25 15:35		Jignesh	OK
5	CCV1	CCV1	CCV	04/14/25 15:40		Jignesh	OK
6	Q1800-02DUP	WC-A4-01-CDUP	DUP	04/14/25 16:01		Jignesh	OK
7	CCV2	CCV2	CCV	04/14/25 16:30		Jignesh	OK
8	Q1800-02	WC-A4-01-C	SAM	04/15/25 16:00		Jignesh	OK

Instrument ID: FILTER/GRAVIMETRIC

Daily Analysis Runlog For Sequence/QC Batch ID # LB135438

Review By	rubina	Review On	4/16/2025 3:46:08 PM
Supervise By	Iwona	Supervise On	4/16/2025 3:46:35 PM
SubDirectory	LB135438	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	Q1800-02	WC-A4-01-C	SAM	04/16/25 10:00		rubina	OK
2	Q1800-02DUP	WC-A4-01-CDUP	DUP	04/16/25 10:08		rubina	OK
3	Q1806-01	OR-03-041425	SAM	04/16/25 10:16		rubina	OK
4	Q1807-01	OK-02-041425	SAM	04/16/25 10:23		rubina	OK
5	Q1808-01	OILY-SOIL-PILE	SAM	04/16/25 10:30		rubina	OK
6	Q1808-03	LAW-25-0060	SAM	04/16/25 10:38		rubina	OK

Instrument ID: KONELAB

Daily Analysis Runlog For Sequence/QC Batch ID # LB135440

Review By	rubina	Review On	4/16/2025 9:08:06 AM
Supervise By	Iwona	Supervise On	4/16/2025 10:23:44 AM
SubDirectory	LB135440	Test	Reactive Cyanide
STD. NAME	STD REF.#		
ICAL Standard	WP112702,WP112703,WP112704,WP112705,WP112706,WP112707,WP112708		
ICV Standard	WP112709		
CCV Standard	WP112703		
ICSA Standard	N/A		
CRI Standard	N/A		
LCS Standard	N/A		
Chk Standard	WP112643,WP111035,WP112710		

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	0.0PPBCN	0.0PPBCN	CAL1	04/15/25 13:51		rubina	OK
2	5.0PPBCN	5.0PPBCN	CAL2	04/15/25 13:51		rubina	OK
3	10PPBCN	10PPBCN	CAL3	04/15/25 13:51		rubina	OK
4	50PPBCN	50PPBCN	CAL4	04/15/25 13:51		rubina	OK
5	100PPBCN	100PPBCN	CAL5	04/15/25 13:51		rubina	OK
6	250PPBCN	250PPBCN	CAL6	04/15/25 13:51		rubina	OK
7	500PPBCN	500PPBCN	CAL7	04/15/25 13:51		rubina	OK
8	ICV1	ICV1	ICV	04/15/25 14:34		rubina	OK
9	ICB1	ICB1	ICB	04/15/25 14:34		rubina	OK
10	CCV1	CCV1	CCV	04/15/25 14:34		rubina	OK
11	CCB1	CCB1	CCB	04/15/25 14:34		rubina	OK
12	PB167581BL	PB167581BL	MB	04/15/25 14:34		rubina	OK
13	Q1779-04	TP-22	SAM	04/15/25 14:41		rubina	OK
14	Q1779-04DUP	TP-22DUP	DUP	04/15/25 14:41		rubina	OK
15	Q1779-08	TP-23	SAM	04/15/25 14:41		rubina	OK
16	Q1781-04	WC-13	SAM	04/15/25 14:41		rubina	OK
17	Q1781-08	WC-12	SAM	04/15/25 14:41		rubina	OK
18	Q1781-12	WC-11	SAM	04/15/25 14:41		rubina	OK

Instrument ID: KONELAB

Daily Analysis Runlog For Sequence/QC Batch ID # LB135440

Review By	rubina	Review On	4/16/2025 9:08:06 AM
Supervise By	Iwona	Supervise On	4/16/2025 10:23:44 AM
SubDirectory	LB135440	Test	Reactive Cyanide
STD. NAME	STD REF.#		
ICAL Standard	WP112702,WP112703,WP112704,WP112705,WP112706,WP112707,WP112708		
ICV Standard	WP112709		
CCV Standard	WP112703		
ICSA Standard	N/A		
CRI Standard	N/A		
LCS Standard	N/A		
Chk Standard	WP112643,WP111035,WP112710		

19	Q1787-12	TP-1	SAM	04/15/25 14:41		rubina	OK
20	Q1788-04	WC-1	SAM	04/15/25 14:41		rubina	OK
21	Q1791-07	290502	SAM	04/15/25 14:49		rubina	OK
22	CCV2	CCV2	CCV	04/15/25 14:49		rubina	OK
23	CCB2	CCB2	CCB	04/15/25 14:49		rubina	OK
24	Q1800-03	WC-A4-01-C	SAM	04/15/25 14:49		rubina	OK
25	Q1803-01	WEST-BAY	SAM	04/15/25 14:49		rubina	OK
26	Q1803-02	FUEL-MONITORING	SAM	04/15/25 14:49		rubina	OK
27	Q1808-02	OILY-SOIL-PILE	SAM	04/15/25 14:49		rubina	OK
28	Q1808-04	LAW-25-0060	SAM	04/15/25 14:49		rubina	OK
29	PB167582BL	PB167582BL	MB	04/15/25 14:56		rubina	OK
30	Q1791-09	VB16193	SAM	04/15/25 14:56		rubina	OK
31	Q1791-09DUP	VB16193DUP	DUP	04/15/25 14:56		rubina	OK
32	Q1791-10	280722	SAM	04/15/25 14:56		rubina	OK
33	Q1791-11	280791	SAM	04/15/25 14:56		rubina	OK
34	CCV3	CCV3	CCV	04/15/25 15:04		rubina	OK
35	CCB3	CCB3	CCB	04/15/25 15:04		rubina	OK
36	Q1791-12	V1207	SAM	04/15/25 15:04		rubina	OK
37	Q1791-13	279312	SAM	04/15/25 15:04		rubina	OK
38	Q1810-01	MOO-25-0117	SAM	04/15/25 15:04		rubina	OK

Instrument ID: KONELAB

Daily Analysis Runlog For Sequence/QC Batch ID # LB135440

Review By	rubina	Review On	4/16/2025 9:08:06 AM
Supervise By	Iwona	Supervise On	4/16/2025 10:23:44 AM
SubDirectory	LB135440	Test	Reactive Cyanide
STD. NAME	STD REF.#		
ICAL Standard	WP112702,WP112703,WP112704,WP112705,WP112706,WP112707,WP112708		
ICV Standard	WP112709		
CCV Standard	WP112703		
ICSA Standard	N/A		
CRI Standard	N/A		
LCS Standard	N/A		
Chk Standard	WP112643,WP111035,WP112710		

39	Q1810-02	MOO-25-0118	SAM	04/15/25 15:04		rubina	OK
40	Q1791-14	VB16164	SAM	04/15/25 15:04		rubina	OK
41	CCV4	CCV4	CCV	04/15/25 15:08		rubina	OK
42	CCB4	CCB4	CCB	04/15/25 15:08		rubina	OK

Instrument ID: TITRAMETRIC

Daily Analysis Runlog For Sequence/QC Batch ID # LB135442

Review By	rubina	Review On	4/15/2025 4:38:41 PM
Supervise By	Iwona	Supervise On	4/15/2025 4:44:09 PM
SubDirectory	LB135442	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	PB167580BL	PB167580BL	MB	04/15/25 15:10		rubina	OK
2	Q1779-04	TP-22	SAM	04/15/25 15:13		rubina	OK
3	Q1779-04DUP	TP-22DUP	DUP	04/15/25 15:16		rubina	OK
4	Q1779-08	TP-23	SAM	04/15/25 15:18		rubina	OK
5	Q1781-04	WC-13	SAM	04/15/25 15:20		rubina	OK
6	Q1781-08	WC-12	SAM	04/15/25 15:23		rubina	OK
7	Q1781-12	WC-11	SAM	04/15/25 15:25		rubina	OK
8	Q1787-12	TP-1	SAM	04/15/25 15:27		rubina	OK
9	Q1788-04	WC-1	SAM	04/15/25 15:30		rubina	OK
10	Q1791-07	290502	SAM	04/15/25 15:33		rubina	OK
11	Q1800-03	WC-A4-01-C	SAM	04/15/25 15:36		rubina	OK
12	Q1803-01	WEST-BAY	SAM	04/15/25 15:39		rubina	OK
13	Q1803-02	FUEL-MONITORING	SAM	04/15/25 15:41		rubina	OK
14	Q1808-02	OILY-SOIL-PILE	SAM	04/15/25 15:43		rubina	OK
15	Q1808-04	LAW-25-0060	SAM	04/15/25 15:45		rubina	OK

Instrument ID: WC SC-3

Daily Analysis Runlog For Sequence/QC Batch ID # LB135450

Review By	jignesh	Review On	4/16/2025 11:42:22 AM
Supervise By	Iwona	Supervise On	4/16/2025 2:24:41 PM
SubDirectory	LB135450	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,EP2599,WP110826,NA,E2865,WP110829,NA,WP110830		

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	LB135450BL	LB135450BL	MB	04/16/25 13:00		jignesh	OK
2	LB135450BS	LB135450BS	LCS	04/16/25 13:00		jignesh	OK
3	Q1800-02	WC-A4-01-C	SAM	04/16/25 13:00		jignesh	OK
4	Q1800-02DUP	WC-A4-01-CDUP	DUP	04/16/25 13:00		jignesh	OK
5	Q1800-02MS	WC-A4-01-CMS	MS	04/16/25 13:00		jignesh	OK
6	Q1800-02MSD	WC-A4-01-CMSD	MSD	04/16/25 13:00		jignesh	OK

Instrument ID: WC SC-3

Daily Analysis Runlog For Sequence/QC Batch ID # LB135451

Review By	jignesh	Review On	4/17/2025 10:24:04 AM
Supervise By	Iwona	Supervise On	4/17/2025 11:57:26 AM
SubDirectory	LB135451	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	LB135451BL	LB135451BL	MB	04/16/25 11:00		jignesh	OK
2	Q1800-04	WC-A4-01-C	SAM	04/16/25 11:00		jignesh	OK
3	Q1800-04DUP	WC-A4-01-CDUP	DUP	04/16/25 11:00		jignesh	OK

Instrument ID: WC SC-3

Daily Analysis Runlog For Sequence/QC Batch ID # LB135454

Review By	jignesh	Review On	4/16/2025 12:14:02 PM
Supervise By	Iwona	Supervise On	4/16/2025 2:24:28 PM
SubDirectory	LB135454	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,EP2599,WP110826,NA,NA,WP110827,NA,WP110828		

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	LB135454BL	LB135454BL	MB	04/16/25 13:30		jignesh	OK
2	LB135454BS	LB135454BS	LCS	04/16/25 13:30		jignesh	OK
3	Q1800-04	WC-A4-01-C	SAM	04/16/25 13:30		jignesh	OK
4	Q1800-04DUP	WC-A4-01-CDUP	DUP	04/16/25 13:30		jignesh	OK
5	Q1800-04MS	WC-A4-01-CMS	MS	04/16/25 13:30		jignesh	OK
6	Q1800-04MSD	WC-A4-01-CMSD	MSD	04/16/25 13:30		jignesh	OK

Instrument ID: SPECTROPHOTOMETER-2

Daily Analysis Runlog For Sequence/QC Batch ID # LB135458

Review By	Iwona	Review On	4/16/2025 3:15:30 PM
Supervise By	jignesh	Supervise On	4/16/2025 3:19:53 PM
SubDirectory	LB135458	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,W3127,WP112718,WP112717		

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	CAL1	CAL1	CAL	01/22/25 13:30		Iwona	OK
2	CAL2	CAL2	CAL	01/22/25 13:30		Iwona	OK
3	CAL3	CAL3	CAL	01/22/25 13:31		Iwona	OK
4	CAL4	CAL4	CAL	01/22/25 13:31		Iwona	OK
5	CAL5	CAL5	CAL	01/22/25 13:32		Iwona	OK
6	ICV	ICV	ICV	01/22/25 13:32		Iwona	OK
7	ICB	ICB	ICB	01/22/25 13:33		Iwona	OK
8	CCV1	CCV1	CCV	04/16/25 15:00		Iwona	OK
9	CCB1	CCB1	CCB	04/16/25 15:00		Iwona	OK
10	LB135458BL	LB135458BL	MB	04/16/25 15:01		Iwona	OK
11	LB135458BS	LB135458BS	LCS	04/16/25 15:01		Iwona	OK
12	Q1800-04	WC-A4-01-C	SAM	04/16/25 15:02		Iwona	OK
13	Q1800-04DUP	WC-A4-01-CDUP	DUP	04/16/25 15:02		Iwona	OK
14	Q1800-04MS	WC-A4-01-CMS	MS	04/16/25 15:03		Iwona	OK
15	Q1800-04MSD	WC-A4-01-CMSD	MSD	04/16/25 15:03		Iwona	OK
16	CCV2	CCV2	CCV	04/16/25 15:04		Iwona	OK
17	CCB2	CCB2	CCB	04/16/25 15:04		Iwona	OK

Instrument ID: KONELAB

Daily Analysis Runlog For Sequence/QC Batch ID # LB135483

Review By	Review On
Supervise By	Supervise On
SubDirectory	LB135483
Test	ASTM Ammonia
STD. NAME	STD REF.#
ICAL Standard	WP112763
ICV Standard	WP112765
CCV Standard	WP112764
ICSA Standard	N/A
CRI Standard	N/A
LCS Standard	WP112614
Chk Standard	WP112537,WP111745,WP111385,WP111660

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	0.0PPM	0.0PPM	CAL1	04/18/25 08:45		rubina	OK
2	0.1PPM	0.1PPM	CAL2	04/18/25 08:45		rubina	OK
3	0.2PPM	0.2PPM	CAL3	04/18/25 08:45		rubina	OK
4	0.4PPM	0.4PPM	CAL4	04/18/25 08:45		rubina	OK
5	1.0PPM	1.0PPM	CAL5	04/18/25 08:45		rubina	OK
6	1.3PPM	1.3PPM	CAL6	04/18/25 08:45		rubina	OK
7	2.0PPM	2.0PPM	CAL7	04/18/25 08:45		rubina	OK
8	ICV1	ICV1	ICV	04/18/25 11:43		rubina	OK
9	ICB1	ICB1	ICB	04/18/25 11:43		rubina	OK
10	CCV1	CCV1	CCV	04/18/25 11:43		rubina	OK
11	CCB1	CCB1	CCB	04/18/25 11:43		rubina	OK
12	RL	RL	SAM	04/18/25 11:43		rubina	OK
13	PB167640BL	PB167640BL	MB	04/18/25 11:43		rubina	OK
14	PB167640BS	PB167640BS	LCS	04/18/25 11:53		rubina	OK
15	PB167640TB	PB167640TB	MB	04/18/25 11:53		rubina	OK
16	Q1800-04	WC-A4-01-C	SAM	04/18/25 11:53		rubina	OK
17	Q1800-04DUP	WC-A4-01-CDUP	DUP	04/18/25 11:54		rubina	OK
18	Q1800-04MS	WC-A4-01-CMS	MS	04/18/25 11:54		rubina	OK

Instrument ID: KONELAB

Daily Analysis Runlog For Sequence/QC Batch ID # LB135483

Review By	Review On
Supervise By	Supervise On
SubDirectory	LB135483
Test	ASTM Ammonia
STD. NAME	STD REF.#
ICAL Standard	WP112763
ICV Standard	WP112765
CCV Standard	WP112764
ICSA Standard	N/A
CRI Standard	N/A
LCS Standard	WP112614
Chk Standard	WP112537,WP111745,WP111385,WP111660

19	Q1800-04MSD	WC-A4-01-CMSD	MSD	04/18/25 11:54		rubina	OK
20	CCV2	CCV2	CCV	04/18/25 11:59		rubina	OK
21	CCB2	CCB2	CCB	04/18/25 12:00		rubina	OK

Prep Standard - Chemical Standard Summary

Order ID : Q1800

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 : PB167580,PB167581,PB167640,

Sequence ID/Qc Batch ID: LB135415,LB135417,LB135418,LB135420,LB135421,LB135438,LB135440,LB135442,LB135450,LB135451

Standard ID :

EP2599,WP110335,WP110826,WP110827,WP110828,WP110829,WP110830,WP111004,WP111035,WP111294,WP111296,WP111317,WP111318,WP111325,WP111385,WP111514,WP111515,WP111516,WP111517,WP111518,WP111519,WP111520,WP111522,WP111660,WP111745,WP112537,WP112611,WP112612,WP112613,WP112614,WP112643,WP112701,WP112702,WP112703,WP112704,WP112705,WP112706,WP112707,WP112708,WP112709,WP112710,WP112715,WP112716,WP112717,WP112718,WP112763,WP112764,WP112765,

Chemical ID :

E2865,E3551,E3788,M5673,M6069,M6121,W2666,W2668,W2700,W2725,W2784,W2817,W2858,W2871,W2882,W2926,W3009,W3019,W3071,W3072,W3082,W3093,W3105,W3112,W3113,W3114,W3127,W3132,W3138,W3139,W3140,W3149,W3154,W3155,W3161,W3169,W3174,W3177,W3178,W3191,W3195,W3196,



<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	EP2599	04/07/2025	07/01/2025	Rajesh Parikh	Extraction_SC ALE_2 (EX-SC-2)	None	Riteshkumar Patel 04/07/2025
<u>FROM</u> 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>
1597	0.04 N H2SO4	WP110335	10/22/2024	04/22/2025	Rubina Mughal	None	WETCHEM_PIPETTE_3 (WC)	Iwona Zarych 10/22/2024
FROM 1.00000ml of M5673 + 999.00000ml of W3112 = Final Quantity: 1000.000 ml								

Wet Chemistry STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
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

FROM 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_SCALE_8 (WCS-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							

[illegible]



<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_S CALE_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 SC-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_S CALE_5 (WC SC-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								

Wet Chemistry STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3371	Cyanide LCS Spike Solution, 5PPM	WP111296	01/07/2025	07/07/2025	Niha Farheen Shaik	None	WETCHEM_FIPETTE_3 (WC)	Iwona Zarych 01/07/2025

FROM 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 (WC SC-6)	None	Iwona Zarych 01/09/2025

FROM 4.00000gram of W3113 + 996.00000ml 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>
1471	NaOH Solution, 6N	WP111318	01/09/2025	07/09/2025	Rubina Mughal	WETCHEM_SCALE_7 (WC SC-6)	None	Iwona Zarych
								01/09/2025

FROM 240.00000gram of W3113 + 760.00000ml 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>
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_SCALE_8 (WCS-7)	None	Iwona Zarych 01/13/2025
<u>FROM</u> 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 (WC SC-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 (WCS-5)	None	Iwona Zarych 01/22/2025
<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>PipettelD</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
<u>FROM</u> 10.00000ml of W3112 = Final Quantity: 10.000 ml								



<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
138	COD calibration std. 10 ppm	WP111517	01/22/2025	01/29/2025	Niha Farheen Shaik	None	WETCHEM_PIPETTE_3	Iwona Zarych 01/22/2025
<u>FROM</u> 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 01/22/2025
<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
<u>FROM</u> 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	Iwona Zarych
(WC) FROM 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_SCALE_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								

Wet Chemistry STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
289	Sodium Hypochlorite for Ammonia	WP111745	02/03/2025	07/31/2025	Rubina Mughal	None	None	Iwona Zarych
								02/03/2025

FROM 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 nitroferrocyanide for ammonia	WP112537	03/28/2025	04/28/2025	Rubina Mughal	WETCHEM_SCALE_5 (WC SC-5)	None	Iwona Zarych
								03/28/2025

FROM 0.05000gram of W2666 + 99.95000ml of W3112 = Final Quantity: 100.000 ml



<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
153	Ammonia Stock Std. (1000 ppm)	WP112611	04/07/2025	10/07/2025	Rubina Mughal	WETCHEM_SCALE_8 (WC SC-7)	None	Iwona Zarych 04/07/2025
<u>FROM</u> 3.81900gram of W3196 + 996.18100ml of W3112 = Final Quantity: 1000.000 ml								

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
1895	Ammonia Stock Std, 1000PPM-SS	WP112612	04/07/2025	10/07/2025	Rubina Mughal	WETCHEM_S CALE_8 (WC SC-7)	None	Iwona Zarych 04/07/2025
<u>FROM</u> 3.81900gram of W3195 + 996.18100ml of W3112 = Final Quantity: 1000.000 ml								



<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
1322	Ammonia Intermediate Std, 50PPM	WP112613	04/07/2025	05/07/2025	Rubina Mughal	None	WETCHEM_F IPETTE_3 (WC)	Iwona Zarych 04/07/2025
<u>FROM</u> 95.00000ml of W3112 + 5.00000ml of WP112611 = 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	WP112614	04/07/2025	05/07/2025	Rubina Mughal	None	WETCHEM_F IPETTE_3 (WC)	Iwona Zarych 04/07/2025
<u>FROM</u> 95.00000ml of W3112 + 5.00000ml of WP112612 = 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>
539	CN BUFFER	WP112643	04/09/2025	10/09/2025	Niha Farheen Shaik	WETCHEM_SCALE_5 (WCS-5)	None	Iwona Zarych 04/09/2025
<u>FROM</u>	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>
3456	Cyanide Intermediate Working Std, 5PPM	WP112701	04/15/2025	04/16/2025	Rubina Mughal	None	WETCHEM_PIPETTE_3 (WC)	Iwona Zarych 04/15/2025
<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	WP112702	04/15/2025	04/16/2025	Rubina Mughal	None	WETCHEM_F IPETTE_3 (WC)	Iwona Zarych 04/15/2025
FROM 45.00000ml of WP111294 + 5.00000ml of WP112701 = 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	WP112703	04/15/2025	04/16/2025	Rubina Mughal	None	WETCHEM_F IPETTE_3 (WC)	Iwona Zarych 04/15/2025
FROM 2.50000ml of WP112701 + 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	WP112704	04/15/2025	04/16/2025	Rubina Mughal	None	WETCHEM_F IPETTE_3 (WC)	Iwona Zarych 04/15/2025
FROM 1.00000ml of WP112701 + 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	WP112705	04/15/2025	04/16/2025	Rubina Mughal	None	WETCHEM_F IPETTE_3 (WC)	Iwona Zarych 04/15/2025
FROM 0.50000ml of WP112701 + 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	WP112706	04/15/2025	04/16/2025	Rubina Mughal	None	WETCHEM_F IPETTE_3 (WC)	Iwona Zarych 04/15/2025
FROM 1.00000ml of WP112702 + 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	WP112707	04/15/2025	04/16/2025	Rubina Mughal	None	WETCHEM_F IPETTE_3 (WC)	Iwona Zarych 04/15/2025
FROM 0.50000ml of WP112702 + 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	WP112708	04/15/2025	04/16/2025	Rubina Mughal	None	None	Iwona Zarych
								04/15/2025

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>
2168	RCN ICV STD, 100 PPB	WP112709	04/15/2025	04/16/2025	Rubina Mughal	None	WETCHEM_FIPETTE_3	Iwona Zarych
							(WC)	04/15/2025

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>
1582	Chloramine T solution, 0.014M	WP112710	04/15/2025	04/16/2025	Rubina Mughal	WETCHEM_S CALE_5 (WC SC-5)	Glass Pipette-A	Iwona Zarych 04/15/2025
<u>FROM</u>	0.08000gram of W3139 + 20.00000ml of W3112 = Final Quantity: 20.000 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	WP112715	04/16/2025	04/23/2025	Iwona Zarych	None	WETCHEM_PIPETTE_3 (WC)	Jignesh Parikh 04/16/2025
<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>
2457	COD Stock std-SS, 1000ppm	WP112716	04/16/2025	04/23/2025	Iwona Zarych	None	WETCHEM_PIPETTE_3 (WC)	Jignesh Parikh 04/16/2025
<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>
2458	COD CCV std, 50ppm	WP112717	04/16/2025	04/23/2025	Iwona Zarych	None	WETCHEM_PIPETTE_3 (WC)	Jignesh Parikh 04/16/2025
<u>FROM</u> 9.50000ml of W3112 + 0.50000ml of WP112715 = Final Quantity: 10.000 ml								

Wet Chemistry STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
2459	COD ICV-LCS std, 50ppm	WP112718	04/16/2025	04/23/2025	Iwona Zarych	None	WETCHEM_FIPETTE_3 (WC)	Jignesh Parikh 04/16/2025

FROM 9.50000ml of W3112 + 0.50000ml of WP112716 = 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)	WP112763	04/18/2025	04/19/2025	Rubina Mughal	None	WETCHEM_FIPETTE_3 (WC)	Jignesh Parikh 04/18/2025

FROM 48.00000ml of W3112 + 2.00000ml of WP112613 = 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>
285	Ammonia CCV Std. (1 ppm)	WP112764	04/18/2025	04/19/2025	Rubina Mughal	None	WETCHEM_PIPETTE_3 (WC)	Jignesh Parikh 04/18/2025
FROM 49.00000ml of W3112 + 1.00000ml of WP112613 = 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)	WP112765	04/18/2025	04/19/2025	Rubina Mughal	None	WETCHEM_PIPETTE_3 (WC)	Jignesh Parikh 04/18/2025
FROM 49.00000ml of W3112 + 1.00000ml of WP112614 = 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.	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

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

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	P1060-10 / PHENOL, ACS, 500G	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, 500G	383058	07/05/2027	07/05/2022 / ketankumar	07/05/2022 / ketankumar	W2926

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

CHEMICAL RECEIPT LOG BOOK

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

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	AL69870-8 / SODIUM THIOSULFATE,0.025N,4LIT RE	4403S13	09/30/2025	04/22/2024 / lwona	04/22/2024 / lwona	W3105

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

CHEMICAL RECEIPT LOG BOOK

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

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

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

CHEMICAL RECEIPT LOG BOOK

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 / lwona	09/17/2024 / lwona	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 / lwona	10/16/2024 / lwona	W3149

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

CHEMICAL RECEIPT LOG BOOK

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

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	AL14055-3 / PH 4 BUFFER SOLUTION	2411A93	10/30/2026	04/01/2025 / JIGNESH	01/27/2025 / jignesh	W3178

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	1601-1 / PH 10.01 BUFFER,COLOR CD 475ML	2410F80	03/31/2026	04/01/2025 / JIGNESH	03/13/2025 / jignesh	W3191

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	J0660-1 / AMMONIUM CHLORIDE, ACS, 500G	24L0356561	08/31/2027	03/19/2025 / lwona	03/19/2025 / lwona	W3195

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	J0660-1 / AMMONIUM CHLORIDE, ACS, 500G	MKCV1009	09/30/2026	03/19/2025 / lwona	03/19/2025 / lwona	W3196

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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W2817

REC. 04/02/2021

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:

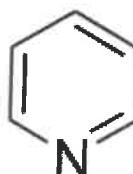
C₅H₅N

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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customerservice@riccachemical.com

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

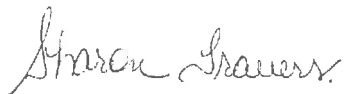
*Not a certified value.

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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This product was tested in an ISO 17025 Accredited Laboratory

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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	%
Titration 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 is a division of Merck KGaA, Darmstadt, Germany

EMD Millipore Corporation

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

Form number: 00005624CA, Rev. 2.0

Certificate of Analysis

ThermoFisher
SCIENTIFIC

Certificate of Analysis

1 Reagent Lane

Fair Lawn, NJ 07410

201.796.7100 tel

201.796.1329 fax

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

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Catalog Number	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

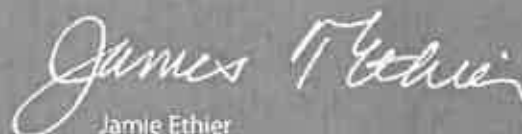
Certificate of Analysis

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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MONTERREY, N.L. MEXICO
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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

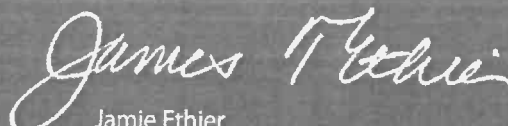


Material No.: 9673-33
Batch No.: 23D2462010

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

avantor™



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

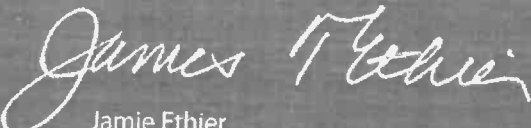
100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone: 610.386.1700

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

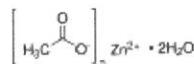
For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700
Avantor Performance Materials, LLC
100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone: 610.386.1700

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)	$\leq 5 \text{ ppm}$	$< 5 \text{ ppm}$
Iron (Fe)	$\leq 5 \text{ ppm}$	$< 5 \text{ ppm}$
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 %

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

Order our products online www.alfa.com

ThermoFisher
S C I E N T I F I C



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

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."

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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	$C_{10}H_{14}N_2Na_2O_8 \cdot 2H_2O$	Molecular Weight	372.24

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

Certificate of Analysis Results Entered By:

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

Certificate of Analysis Results Approved By:

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

Spectrum Chemical Mfg Corp
755 Jersey Avenue
New Brunswick 08901 NJ



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

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

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



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

Order our products online thermofisher.com/chemicals

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

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



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

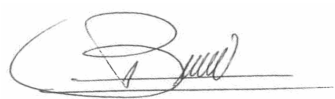
Test	Specification	Result
Appearance	Colorless liquid	Passed
Cyanide (CN ⁻)	995-1005 ppm	1000 ppm

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

Certificate of Analysis

021758 58

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

Lot Number: 2411A93

Product Number: 1501

Manufacture Date: NOV 04, 2024

Expiration Date: OCT 2026

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

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

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

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

Test	Specification	Result
Appearance	Red liquid	Passed

*Not a certified value.

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

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

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

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

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



RICCA CHEMICAL COMPANY®

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Pocomoke City, MD 21851
<http://www.riccachemical.com>
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Certificate of Analysis

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

Lot Number: 2410F80

Product Number: 1601

Manufacture Date: OCT 09, 2024

Expiration Date: MAR 2026

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

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

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

Test	Specification	Result
Appearance	Blue liquid	Passed

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

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

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

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

Version: 1.3

Lot Number: 2410F80

Product Number: 1601

Page 1 of 2

Certificate of Analysis



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

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

Internal ID #: 710

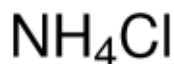
Signature	Additional Information
We certify that this batch conforms to the specifications listed above. This document has been electronically produced and is valid without a signature. Leona Edwardson, Quality Control Sr. Manager - Solon VWR Chemicals, LLC. 28600 Fountain Parkway, Solon OH 44139 USA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

W3196 Received on 03/19/2025 by IZ

Certificate of Analysis

Product Name:

Ammonium chloride - ACS reagent, ≥99.5%



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

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



Larry Coers, Director

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



Certificate of Analysis

Product Number: 213330
Batch Number: MKCV1009

Quality Control
Milwaukee, WI US

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





PERCENT SOLID

Supervisor: Iwona
Analyst: jignesh
Date: 4/15/2025

OVENTEMP IN Celsius(°C): 107
Time IN: 17:00
In Date: 04/14/2025
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: 04/15/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLID- OVEN

QC:LB135416

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
Q1800-02	WC-A4-01-C	1	1.14	10.66	11.8	9.84	81.6	
Q1803-01	WEST-BAY	2	1.15	10.18	11.33	9.91	86.1	
Q1803-02	FUEL-MONITORING	3	1.16	11.09	12.25	10.39	83.2	
Q1806-01	OR-03-041425	4	1.15	11.25	12.4	11.25	89.8	
Q1806-02	OR-03-041425-E2	5	1.18	10.23	11.41	10.29	89.1	
Q1807-01	OK-02-041425	6	1.19	11.03	12.22	11.16	90.4	
Q1807-02	OK-02-041425-E2	7	1.14	10.45	11.59	10.6	90.5	
Q1808-01	OILY-SOIL-PILE	8	1.14	9.87	11.01	9.64	86.1	
Q1808-03	LAW-25-0060	9	1.12	10.83	11.95	9.33	75.8	

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

WORKLIST(Hardcopy Internal Chain)

135416

WorkList Name : %1-041425

WorkList ID : 188893

Department : Wet-Chemistry

Date : 04-14-2025 08:51:10

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1800-02	WC-A4-01-C	Solid	Percent Solids	Cool 4 deg C	ENTA05	L41	04/11/2025	Chemtech -SO
Q1803-01	WEST-BAY	Solid	Percent Solids	Cool 4 deg C	SCAL01	L31	04/10/2025	Chemtech -SO
Q1803-02	FUEL-MONITORING	Solid	Percent Solids	Cool 4 deg C	SCAL01	L31	04/10/2025	Chemtech -SO
Q1806-01	OR-03-041425	Solid	Percent Solids	Cool 4 deg C	PSEG05	L31	04/14/2025	Chemtech -SO
Q1806-02	OR-03-041425-E2	Solid	Percent Solids	Cool 4 deg C	PSEG05	L31	04/14/2025	Chemtech -SO
Q1807-01	OK-02-041425	Solid	Percent Solids	Cool 4 deg C	PSEG05	L31	04/14/2025	Chemtech -SO
Q1807-02	OK-02-041425-E2	Solid	Percent Solids	Cool 4 deg C	PSEG05	L31	04/14/2025	Chemtech -SO
Q1808-01	OILY-SOIL-PILE	Solid	Percent Solids	Cool 4 deg C	PSEG03	L51	04/14/2025	Chemtech -SO
Q1808-03	LAW-25-0060	Solid	Percent Solids	Cool 4 deg C	PSEG03	L51	04/14/2025	Chemtech -SO

Date/Time 04.14.25 15:30

Raw Sample Received by: [Signature]

Raw Sample Relinquished by: [Signature]

Date/Time 04.14.25

Raw Sample Received by: [Signature]

Raw Sample Relinquished by: [Signature]



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:

Q1800

COC Number: 2042112

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

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 _____

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

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										
			COMP	GRAB	DATE	TIME		E	E	E	E	E	E	E	E	E	
1.	WC-A4-01-G	Soil		X	4/11	12:00	1	X									
2.	WC-A4-01-C	Soil	X		4/11	12:00	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 PROSESSION INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER 1. Jarod Stanfield	DATE/TIME 4/11 12:00	RECEIVED BY 1. <i>[Signature]</i> 4-14-25 0700	Conditions of bottles or coolers at receipt: ☐ Compliant ☐ Non Compliant ☐ Cooler Temp 6°C
RELINQUISHED BY	DATE/TIME	RECEIVED BY	Comments:
2.		2.	
RELINQUISHED BY	DATE/TIME	RECEIVED FOR LAB BY	
3.		3.	

SHIPPED VIA: CLIENT: ☐ Hand Delivered ☐ Overnight
ALLIANCE: ☐ Picked Up ☐ Overnight

Shipment Complete
☐ YES ☐ NO

(Adjust Factor +1)
IR SW #1

WHITE - ALLIANCE COPY FOR RETURN TO CLIENT

YELLOW - ALLIANCE COPY

PINK - SAMPLER COPY



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CHAIN OF CUSTODY RECORD

Alliance Project Number:

Q1800

COC Number: 2042112

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-Other

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

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

CHEMTECH SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE		SAMPLE COLLECTION		# of Bottles	PRESERVATIVES									COMMENTS
			COMP	GRAB	DATE	TIME		E	E	E	E	E	E	E	E	E	
1.	WC-A4-01-G	Soil		X	4/11	12:00	1										
2.	WC-A4-01-C	Soil	X		4/11	12:00	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 PROSESSION INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER 1. Jarod Stanfield	DATE/TIME 4/11 12:00	RECEIVED BY 1. 4-14-25 0700	Conditions of bottles or coolers at receipt: ☐ Compliant ☐ Non Compliant ☐ Cooler Temp 6°C ☐ Ice in Cooler?:
RELINQUISHED BY 2.	DATE/TIME	RECEIVED BY 2.	Comments: (Adjust Factor +1) IRL SUN #1
RELINQUISHED BY 3.	DATE/TIME	RECEIVED FOR LAB BY 3.	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