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Cover Page

Order ID : Q2301

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

Client : ENTACT

Lab Sample Number	Client Sample Number
Q2301-01	WC-URBAN-FILL-G
Q2301-02	WC-URBAN-FILL-C
Q2301-03	WC-URBAN-FILL-C
Q2301-04	WC-URBAN-FILL-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: 6/18/2025

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

Alliance TECHNICAL GROUP

284 Sheffield Street, Mountainside NJ 07092
Tel. 908-789-8900 Fax: 908-789-8922

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

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APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: **Q2301**

	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: **PRADIP PRAJAPATI** **Date:** **06/18/2025**

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LAB CHRONICLE

OrderID:	Q2301	**OrderDate:**	6/12/2025 12:08:00 PM
Client:	ENTACT	**Project:**	540 Degraw St, Brooklyn, NY - E9309
Contact:	Austin Farmerie	**Location:**	D41

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q2301-02	**WC-URBAN-FILL-C**	**SOIL**			**06/11/25 12:00**			**06/11/25**
			Oil and Grease	9071B			06/13/25 09:30	
			Paint Filter	9095B			06/16/25 09:05	
			pH	9045D			06/12/25 17:10	
			TS	SM2540 B			06/13/25 11:00	
			TVS	160.4			06/13/25 16:00	
Q2301-03	**WC-URBAN-FILL-C**	**SOIL**			**06/11/25 12:00**			**06/11/25**
			Corrosivity	9045D			06/12/25 17:10	
			Ignitability	1030			06/16/25 10:45	
			Reactive Cyanide	9012B		06/16/25	06/16/25 12:14	
			Reactive Sulfide	9034		06/16/25	06/16/25 13:18	
Q2301-04	**WC-URBAN-FILL-C**	**WATER**			**06/11/25 12:00**			**06/11/25**
			ASTM Ammonia	SM4500-NH3		06/13/25	06/16/25 14:07	
			ASTM COD	SM5220 D			06/16/25 13:32	
			ASTM Oil and Grease	1664A			06/13/25 14:00	

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LAB CHRONICLE

ASTM TS	SM2540 B	06/13/25 11:00

SAMPLE DATA

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Report of Analysis

Client:	ENTACT	Date Collected:	06/11/25 12:00
Project:	540 Degraw St, Brooklyn, NY - E9309	Date Received:	06/11/25
Client Sample ID:	WC-URBAN-FILL-C	SDG No.:	Q2301
Lab Sample ID:	Q2301-02	Matrix:	SOIL
		% Solid:	83

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.
Oil and Grease	48.1		1	6.99	30.1	mg/Kg		06/13/25 09:30	SW9071B
Paint Filter	1.00	U	1	1.00	1.00	ml/100gm		06/16/25 09:05	9095B
pH	8.13	H	1	0	0	pH		06/12/25 17:10	9045D
TS	79.8		1	1.00	5.00	%		06/13/25 11:00	SM 2540 B-15
TVS	1.00	U	1	1.00	10.0	%		06/13/25 16:00	160.4

Comments: pH result reported at temperature 22.3 °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

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Report of Analysis

Client:	ENTACT	Date Collected:	06/11/25 12:00
Project:	540 Degraw St, Brooklyn, NY - E9309	Date Received:	06/11/25
Client Sample ID:	WC-URBAN-FILL-C	SDG No.:	Q2301
Lab Sample ID:	Q2301-03	Matrix:	SOIL
		% Solid:	100

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Corrosivity	8.13	H	1	0	0	pH		06/12/25 17:10	9045D
Ignitability	NO		1	0	0	oC		06/16/25 10:45	1030
Reactive Cyanide	0.013	J	1	0.0083	0.050	mg/Kg	06/16/25 08:30	06/16/25 12:14	9012B
Reactive Sulfide	4.77	J	1	0.20	10.0	mg/Kg	06/16/25 08:30	06/16/25 13:18	9034

Comments: pH result reported at temperature 22.3 °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

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Report of Analysis

Client:	ENTACT	Date Collected:	06/11/25 12:00
Project:	540 Degraw St, Brooklyn, NY - E9309	Date Received:	06/11/25
Client Sample ID:	WC-URBAN-FILL-C	SDG No.:	Q2301
Lab Sample ID:	Q2301-04	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
ASTM Ammonia	0.030	U	1	0.030	0.10	mg/L	06/13/25 12:50	06/16/25 14:07	SM 4500-NH3 B plus NH3 G-11
ASTM COD	10.3		1	1.50	10.0	mg/L		06/16/25 13:32	SM 5220 D-11
ASTM Oil and Grease	0.40	J	1	0.29	5.00	mg/L		06/13/25 14:00	SW1664A
ASTM TS	83.0		1	1.00	5.00	mg/L		06/13/25 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
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

QC RESULT SUMMARY

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Initial and Continuing Calibration Verification

Client: ENTACT **SDG No.:** Q2301

Project: 540 Degraw St, Brooklyn, NY - E9309 **RunNo.:** LB136136

Analyte		Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID:	ICV						
Corrosivity		pH	7.00	7	100	90-110	06/12/2025
Sample ID:	CCV1						
Corrosivity		pH	2.01	2.00	101	90-110	06/12/2025
Sample ID:	CCV2						
Corrosivity		pH	12.02	12.00	100	90-110	06/12/2025
Sample ID:	CCV3						
Corrosivity		pH	2.01	2.00	101	90-110	06/12/2025

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Initial and Continuing Calibration Verification

Client: ENTACT **SDG No.:** Q2301

Project: 540 Degraw St, Brooklyn, NY - E9309 **RunNo.:** LB136137

Analyte	Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID: **ICV**						
pH	pH	7.00	7	100	90-110	06/12/2025
Sample ID: **CCV1**						
pH	pH	2.01	2.00	101	90-110	06/12/2025
Sample ID: **CCV2**						
pH	pH	12.02	12.00	100	90-110	06/12/2025

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Initial and Continuing Calibration Verification

Client: ENTACT **SDG No.:** Q2301

Project: 540 Degraw St, Brooklyn, NY - E9309 **RunNo.:** LB136162

Analyte	Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID: ICV1						
Reactive Cyanide	mg/L	0.094	0.099	95	85-115	06/16/2025
Sample ID: CCV1						
Reactive Cyanide	mg/L	0.23	0.25	92	90-110	06/16/2025
Sample ID: CCV2						
Reactive Cyanide	mg/L	0.23	0.25	92	90-110	06/16/2025

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Initial and Continuing Calibration Verification

Client: ENTACT **SDG No.:** Q2301

Project: 540 Degraw St, Brooklyn, NY - E9309 **RunNo.:** LB136163

Analyte	Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID: **ICV1**						
ASTM Ammonia	mg/L	1	1	100	90-110	06/16/2025
Sample ID: **CCV1**						
ASTM Ammonia	mg/L	1	1	100	90-110	06/16/2025
Sample ID: **CCV2**						
ASTM Ammonia	mg/L	0.97	1	97	90-110	06/16/2025

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Initial and Continuing Calibration Verification

Client:	ENTACT	**SDG No.:**	Q2301
Project:	540 Degraw St, Brooklyn, NY - E9309	**RunNo.:**	LB136170

Analyte		Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID:	**ICV**						
ASTM COD		mg/L	50.962	50	102	95-105	05/28/2025
Sample ID:	**CCV1**						
ASTM COD		mg/L	50.962	50	102	95-105	06/16/2025
Sample ID:	**CCV2**						
ASTM COD		mg/L	50.962	50	102	95-105	06/16/2025

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Initial and Continuing Calibration Verification

Client:	ENTACT	**SDG No.:**	Q2301
Project:	540 Degraw St, Brooklyn, NY - E9309	**RunNo.:**	LB136170

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.:** Q2301

Project: 540 Degraw St, Brooklyn, NY - E9309 **RunNo.:** LB136162

Analyte	Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID: ICB1							
Reactive Cyanide	mg/L	0.0013	0.0025	J	0.00096	0.005	06/16/2025
Sample ID: CCB1							
Reactive Cyanide	mg/L	0.0013	0.0025	J	0.00096	0.005	06/16/2025
Sample ID: CCB2							
Reactive Cyanide	mg/L	0.0013	0.0025	J	0.00096	0.005	06/16/2025

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Initial and Continuing Calibration Blank Summary

Client: ENTACT **SDG No.:** Q2301

Project: 540 Degraw St, Brooklyn, NY - E9309 **RunNo.:** LB136163

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	06/16/2025
Sample ID: CCB1							
ASTM Ammonia	mg/L	< 0.0500	0.0500	U	0.030	0.1	06/16/2025
Sample ID: CCB2							
ASTM Ammonia	mg/L	< 0.0500	0.0500	U	0.030	0.1	06/16/2025

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Initial and Continuing Calibration Blank Summary

Client:	ENTACT	**SDG No.:**	Q2301
Project:	540 Degraw St, Brooklyn, NY - E9309	**RunNo.:**	LB136170

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	05/28/2025
Sample ID:	CCB1							
ASTM COD		mg/L	< 5.0000	5.0000	U	1.50	10	06/16/2025
Sample ID:	CCB2							
ASTM COD		mg/L	< 5.0000	5.0000	U	1.50	10	06/16/2025

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Initial and Continuing Calibration Blank Summary

Client:	ENTACT	**SDG No.:**	Q2301
Project:	540 Degraw St, Brooklyn, NY - E9309	**RunNo.:**	LB136170

Analyte	Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date

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Preparation Blank Summary

Client: ENTACT **SDG No.:** Q2301

Project: 540 Degraw St, Brooklyn, NY - E9309

Analyte	Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID: LB136142BL							
Oil and Grease	mg/Kg	< 12.5000	12.5000	U	5.8	25	06/13/2025
Sample ID: LB136150BL							
TVS	%	< 5.0000	5.0000	U	1	10	06/13/2025
Sample ID: LB136151BL							
ASTM Oil and Grease	mg/L	< 2.5000	2.5000	U	0.29	5.0	06/13/2025
Sample ID: LB136155BL							
TS	%	< 2.5000	2.5000	U	1	5	06/13/2025
Sample ID: LB136170BL							
ASTM COD	mg/L	< 5.0000	5.0000	U	1.5	10.0	06/16/2025
Sample ID: LB136173BL							
ASTM TS	mg/L	< 2.5000	2.5000	U	1	5	06/13/2025
Sample ID: PB168481BL							
ASTM Ammonia	mg/L	< 0.0500	0.0500	U	0.03	0.1	06/16/2025
Sample ID: PB168487BL							
Reactive Cyanide	mg/Kg	0.013	0.0250	J	0.0083	0.05	06/16/2025
Sample ID: PB168488BL							
Reactive Sulfide	mg/Kg	< 5.0000	5.0000	U	0.201	10	06/16/2025

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Matrix Spike Summary

Client: ENTACT
SDG No.: Q2301
Project: 540 Degraw St, Brooklyn, NY - E9309
Sample ID: Q2301-02
Client ID: WC-URBAN-FILL-CMS
Percent Solids for Spike Sample: 83

Analyte	Units	Acceptance Limit %R	Spiked Result	Conc. Qualifier	Sample Result	Conc. Qualifier	Spike Added	Dilution Factor	% Rec	Qual	Analysis Date
Oil and Grease	mg/Kg	75-125	36.1		48.1		120	1	-10	*	06/13/2025

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Matrix Spike Summary

Client: ENTACT
SDG No.: Q2301
Project: 540 Degraw St, Brooklyn, NY - E9309
Sample ID: Q2301-02
Client ID: WC-URBAN-FILL-CMSD
Percent Solids for Spike Sample: 83

Analyte	Units	Acceptance Limit %R	Spiked Result	Conc. Qualifier	Sample Result	Conc. Qualifier	Spike Added	Dilution Factor	% Rec	Qual	Analysis Date
Oil and Grease	mg/Kg	75-125	36.1		48.1		120	1	-10	*	06/13/2025

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Matrix Spike Summary

Client: ENTACT
SDG No.: Q2301
Project: 540 Degraw St, Brooklyn, NY - E9309
Sample ID: Q2301-04
Client ID: WC-URBAN-FILL-CMS
Percent Solids for Spike Sample: 0

Analyte	Units	Acceptance Limit %R	Spiked Result	Conc. Qualifier	Sample Result	Conc. Qualifier	Spike Added	Dilution Factor	% Rec	Qual	Analysis Date
ASTM COD	mg/L	75-125	57.1		10.3		50.0	1	94		06/16/2025
ASTM Oil and Grease	mg/L	78-114	20.5		0.40	J	20.0	1	101		06/13/2025
ASTM Ammonia	mg/L	75-125	0.96		0.030	U	1	1	96		06/16/2025

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Matrix Spike Summary

Client: ENTACT
SDG No.: Q2301
Project: 540 Degraw St, Brooklyn, NY - E9309
Sample ID: Q2301-04
Client ID: WC-URBAN-FILL-CMSD
Percent Solids for Spike Sample: 0

Analyte	Units	Acceptance Limit %R	Spiked Result	Conc. Qualifier	Sample Result	Conc. Qualifier	Spike Added	Dilution Factor	% Rec	Qual	Analysis Date
ASTM COD	mg/L	75-125	58.1		10.3		50.0	1	96		06/16/2025
ASTM Oil and Grease	mg/L	78-114	20.7		0.40	J	20.0	1	102		06/13/2025
ASTM Ammonia	mg/L	75-125	1.00		0.030	U	1	1	100		06/16/2025

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Duplicate Sample Summary

Client: ENTACT
Project: 540 Degraw St, Brooklyn, NY - E9309
Client ID: AU-05-061125DUP

SDG No.: Q2301
Sample ID: Q2298-01
Percent Solids for Spike Sample: 90.7

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/ AD	Qual	Analysis Date
Paint Filter	ml/100gm	+/-20	1.00	U	1.00	U	1	0		06/16/2025

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Duplicate Sample Summary

Client: ENTACT
SDG No.: Q2301
Project: 540 Degraw St, Brooklyn, NY - E9309
Sample ID: Q2301-02
Client ID: WC-URBAN-FILL-CDUP
Percent Solids for Spike Sample: 83

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/ AD	Qual	Analysis Date
pH	pH	+/-20	8.13		8.14		1	0.12		06/12/2025
Oil and Grease	mg/Kg	+/-20	48.1		42.1		1	13.38		06/13/2025
TVS	%	+/-5	1.00	U	1.00	U	1	0		06/13/2025
TS	%	+/-5	79.8		81.5		1	2.11		06/13/2025

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Duplicate Sample Summary

Client: ENTACT
Project: 540 Degraw St, Brooklyn, NY - E9309
Client ID: WC-URBAN-FILL-CMSD

SDG No.: Q2301
Sample ID: Q2301-02
Percent Solids for Spike Sample: 83

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/ AD	Qual	Analysis Date
Oil and Grease	mg/Kg	+/-20	36.1		36.1		1	0.03		06/13/2025

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Duplicate Sample Summary

Client: ENTACT
SDG No.: Q2301
Project: 540 Degraw St, Brooklyn, NY - E9309
Sample ID: Q2301-03
Client ID: WC-URBAN-FILL-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	8.13		8.14		1	0.12		06/12/2025
Ignitability	oC	+/-20	NO		NO		1	0		06/16/2025
Reactive Cyanide	mg/Kg	+/-20	0.013	J	0.012	J	1	8		06/16/2025
Reactive Sulfide	mg/Kg	+/-20	4.77	J	4.79	J	1	0.42		06/16/2025

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Duplicate Sample Summary

Client: ENTACT
SDG No.: Q2301
Project: 540 Degraw St, Brooklyn, NY - E9309
Sample ID: Q2301-04
Client ID: WC-URBAN-FILL-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 Oil and Grease	mg/L	+/-18	0.40	J	0.40	J	1	0		06/13/2025
ASTM Ammonia	mg/L	+/-20	0.030	U	0.030	U	1	0		06/16/2025
ASTM COD	mg/L	+/-20	10.3		10.3		1	0		06/16/2025
ASTM TS	mg/L	+/-5	83.0		80.0		1	3.68		06/13/2025

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

Duplicate Sample Summary

Client: ENTACT
SDG No.: Q2301
Project: 540 Degraw St, Brooklyn, NY - E9309
Sample ID: Q2301-04
Client ID: WC-URBAN-FILL-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	20.5		20.7		1	0.97		06/13/2025
ASTM Ammonia	mg/L	+/-20	0.96		1.00		1	4		06/16/2025
ASTM COD	mg/L	+/-20	57.1		58.1		1	1.74		06/16/2025

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

Laboratory Control Sample Summary

Client:	ENTACT	**SDG No.:**	Q2301
Project:	540 Degraw St, Brooklyn, NY - E9309	**Run No.:**	LB136142

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID LB136142BS								
Oil and Grease	mg/Kg	100	94.9		95	1	80-120	06/13/2025

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Fax : 908 789 8922

Laboratory Control Sample Summary

Client: ENTACT **SDG No.:** Q2301

Project: 540 Degraw St, Brooklyn, NY - E9309 **Run No.:** LB136151

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID LB136151BS								
ASTM Oil and Grease	mg/L	20.0	16.7		84	1	78-114	06/13/2025

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

Laboratory Control Sample Summary

Client:	ENTACT	**SDG No.:**	Q2301
Project:	540 Degraw St, Brooklyn, NY - E9309	**Run No.:**	LB136170

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID LB136170BS								
ASTM COD	mg/L	50	48.9		98	1	90-110	06/16/2025

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

Laboratory Control Sample Summary

Client:	ENTACT	**SDG No.:**	Q2301
Project:	540 Degraw St, Brooklyn, NY - E9309	**Run No.:**	LB136163

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID PB168481BS								
ASTM Ammonia	**mg/L**	**1**	**1.00**		**100**	**1**	**90-110**	**06/16/2025**

Alliance
TECHNICAL GROUP

RAW DATA

Reviewed By:Iwona
On:6/13/2025 12:26:31 PM
Inst Id :WC PH METER-1

Analytical Summary Report

Analysis Method: 9045D
Analyst By : jignesh
Parameter: Corrosivity
Supervisor Review By : Iwona
Run Number: LB136136
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
pH 12.00 Buffer	W3200

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

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

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

True Value of CCV3 = 2.00 Control Limits[+/- 0.05].

Seq	LabID	DF	Matrix	Weight (gm)	Volume (ml)	Temperature (°C)	Result (pH)	Anal Date	Anal Time
1	CAL1	1	Water	NA	NA	20.3	4.01	06/12/2025	15:00
2	CAL2	1	Water	NA	NA	20.2	7.01	06/12/2025	15:01
3	CAL3	1	Water	NA	NA	20.2	10.02	06/12/2025	15:05
4	ICV	1	Water	NA	NA	20.2	7.00	06/12/2025	15:09
5	CCV1	1	Water	NA	NA	20.2	2.01	06/12/2025	15:11
6	Q2287-02	1	Solid	20.02	20	21.3	11.39	06/12/2025	15:25
7	Q2295-04	1	Solid	20.03	20	21.5	10.53	06/12/2025	15:50
8	Q2295-08	1	Solid	20.02	20	21.4	9.14	06/12/2025	16:05
9	Q2296-04	1	Solid	20.03	20	20.4	7.94	06/12/2025	16:15
10	Q2296-08	1	Solid	20.02	20	20.6	8.09	06/12/2025	16:20
11	Q2296-12	1	Solid	20.03	20	20.7	7.50	06/12/2025	16:30
12	Q2296-16	1	Solid	20.02	20	20.5	7.91	06/12/2025	16:40
13	Q2296-20	1	Solid	20.03	20	20.3	7.80	06/12/2025	16:45
14	Q2296-24	1	Solid	20.02	20	20.3	7.45	06/12/2025	16:50
15	Q2297-04	1	Solid	20.01	20	20.4	9.60	06/12/2025	17:00
16	CCV2	1	Water	NA	NA	20.2	12.02	06/12/2025	17:01
17	Q2301-03	1	Solid	20.03	20	22.3	8.13	06/12/2025	17:10
18	Q2301-03DUP	1	Solid	20.04	20	22.4	8.14	06/12/2025	17:11
19	Q2310-04	1	Solid	20.02	20	22.2	9.20	06/12/2025	17:15
20	CCV3	1	Water	NA	NA	20.2	2.01	06/12/2025	17:20

WORKLIST(Hardcopy Internal Chain)

VB 13 6136

WorkList Name : corrsovity q2297 **WorkList ID :** 190148 **Department :** Wet-Chemistry **Date :** 06-12-2025 12:39:34

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q2287-02	CONCRETE-SLAB	Solid	Corrosivity	Cool 4 deg C	PSEG03	D41	06/11/2025	9045D
Q2295-04	TP01-MH1-WC	Solid	Corrosivity	Cool 4 deg C	PSEG03	N42	06/10/2025	9045D
Q2295-08	TP02-MH5-WC	Solid	Corrosivity	Cool 4 deg C	PSEG03	N42	06/10/2025	9045D
Q2296-04	WC-1	Solid	Corrosivity	Cool 4 deg C	PSEG03		06/11/2025	9045D
Q2296-08	WC-2	Solid	Corrosivity	Cool 4 deg C	PSEG03		06/11/2025	9045D
Q2296-12	WC-3	Solid	Corrosivity	Cool 4 deg C	PSEG03		06/11/2025	9045D
Q2296-16	WC-4	Solid	Corrosivity	Cool 4 deg C	PSEG03		06/11/2025	9045D
Q2296-20	WC-5	Solid	Corrosivity	Cool 4 deg C	PSEG03		06/11/2025	9045D
Q2296-24	WC-6	Solid	Corrosivity	Cool 4 deg C	PSEG03		06/11/2025	9045D
Q2297-04	TP-3	Solid	Corrosivity	Cool 4 deg C	PSEG03		06/11/2025	9045D
Q2301-03	WC-URBAN-FILL-C	Solid	Corrosivity	Cool 4 deg C	PSEG03		06/11/2025	9045D
Q2310-04	TP-7	Solid	Corrosivity	Cool 4 deg C	ENTA05	D41	06/11/2025	9045D
					PSEG03	D41	06/12/2025	9045D

Date/Time 06.12.25 14:30
Raw Sample Received by:
Raw Sample Relinquished by:

Date/Time 06.12.25 17:30
Raw Sample Received by:
Raw Sample Relinquished by:

Reviewed By:Iwona
On:6/17/2025 2:39:44 PM
Inst Id :WC PH METER-1

Analytical Summary Report

Analysis Method: 9045D
Analyst By : jignesh
Parameter: pH
Supervisor Review By : Iwona
Run Number: LB136137
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
pH 12.00 Buffer	W3200

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

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

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

Seq	LabID	DF	Matrix	Weight (gm)	Volume (ml)	Temperature (°C)	Result (pH)	Anal Date	Anal Time
1	CAL1	1	Water	NA	NA	20.3	4.01	06/12/2025	15:00
2	CAL2	1	Water	NA	NA	20.2	7.01	06/12/2025	15:01
3	CAL3	1	Water	NA	NA	20.2	10.02	06/12/2025	15:05
4	ICV	1	Water	NA	NA	20.2	7.00	06/12/2025	15:09
5	CCV1	1	Water	NA	NA	20.2	2.01	06/12/2025	15:11
6	Q2298-01	1	Solid	20.02	20	21.9	8.31	06/12/2025	17:05
7	Q2301-02	1	Solid	20.03	20	22.3	8.13	06/12/2025	17:10
8	Q2301-02DUP	1	Solid	20.04	20	22.4	8.14	06/12/2025	17:11
9	CCV2	1	Water	NA	NA	20.3	12.02	06/12/2025	17:26

WORKLIST(Hardcopy Internal Chain)

WB 136137

WorkList Name : ph s q2297 **WorkList ID :** 190149 **Department :** Wet-Chemistry **Date :** 06-12-2025 12:40:05

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q2298-01 E	AU-05-061125	Solid	pH	Cool 4 deg C	PSEG05	D41	06/11/2025	9045D
Q2301-02 N	WC-URBAN-FILL-C	Solid	pH	Cool 4 deg C	ENTA05	D41	06/11/2025	9045D

Date/Time 06.12.25 13:00
Raw Sample Received by: WC
Raw Sample Relinquished by:

Date/Time 06.12.25 17:30
Raw Sample Received by:
Raw Sample Relinquished by: WC

Extraction and Analytical Summary Report

Analysis Method: 9071B
Test: Oil and Grease
Run Number: LB136142
Analysis Date: 06/13/2025
BalanceID: WC SC-6
OvenID: EXT OVEN-3

ANALYST: jignesh
REVIEWED BY: Iwona
Extraction Date: 06/13/2025
Extration IN Time: 08:00
Extration OUT Time: 08:37
Thermometer ID: EXT OVEN#3

Dish #	Lab ID	Client ID	Matrix	pH	Sample Weight (g)	Final Volume (ml)	Empty Dish Weight (g)	Final Empty Dish Weight(g)	Silica Gel Weight(g)	Weight After Drying(g)	Final Weight After Drying(g)	Change Weight (g)	Result in ppm
1	LB136142BL	LB136142BL	SOLID		20.02	100	2.7853	2.7853	0	2.7854	2.7854	0.0001	5
2	LB136142BS	LB136142BS	SOLID		20.03	100	3.0241	3.0241	0	3.0260	3.0260	0.0019	94.86
3	Q2285-04	HAM-CONCRETE	SOLID		20.02	100	3.0522	3.0522	0	3.0575	3.0575	0.0053	264.74
4	Q2301-02	WC-URBAN-FILL-C	SOLID		20.03	100	3.0505	3.0505	0	3.0513	3.0513	0.0008	39.94
5	Q2301-02DUP	WC-URBAN-FILL-CDUP	SOLID		20.04	100	3.0480	3.0480	0	3.0487	3.0487	0.0007	34.93
6	Q2301-02MS	WC-URBAN-FILL-C	SOLID		20.03	100	3.0944	3.0944	0	3.0950	3.0950	0.0006	29.96
7	Q2301-02MSD	WC-URBAN-FILL-C	SOLID		20.02	100	3.0289	3.0289	0	3.0295	3.0295	0.0006	29.97

QC Batch# LB136142 **Test:** Oil and Grease **Analysis Date:** 06/13/2025

Chemicals Used:

Chemical Name	Chemical Lot #
HEXANE	W3204
pH Paper 0-14	NA
Sodium Sulfate	EP2620
1:1 HCL	NA
Silica Gel	NA
Sand	E2865

Standards Used:

Standard Name	Amount Used	Standard Lot #
LCSS	1.00 ML	WP112785
LCSSD	NA	NA
MS/MSD	1.00 ML	WP112786

BALANCE CALIBRATION / OVEN Dessicator Data

Analytical Balance ID # : WC SC-6

Before Analysis

0.0020 gram Balance: 0.0018 **(0.0018-0.0022)**
1.0000 gram Balance: 1.0003 **(0.9950-1.0050)**
Bal Check Time: 08:11

In OVEN TEMP1 : 71 °C
In Time1: 09:30
Out OVEN TEMP1: 71 °C
Out Time1: 10:25

Dessicator Time In1 : 10:26
Dessicator Time Out1: 11:00

After Analysis

0.0020 gram Balance: 0.0019 **(0.0018-0.0022)**
1.0000 gram Balance: 1.0004 **(0.9950-1.0050)**
Bal Check Time: 12:40

In OVEN TEMP2 : 70 °C
In Time2: 11:30
Out OVEN TEMP2: 70 °C
Out Time2: 12:00

Dessicator Time In2 : 12:01
Dessicator Time Out2: 12:37

WORKLIST(Hardcopy Internal Chain)

LB 136142

WorkList Name : OIL & GREASE Q2301 **WorkList ID :** 190167 **Department :** Wet-Chemistry **Date :** 06-13-2025 07:46:42

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q2285-04 C	HAM-CONCRETE	Solid	Oil and Grease	Cool 4 deg C	PSEG03	D41	06/10/2025	9071B
Q2301-02	WC-URBAN-FILL-C	Solid	Oil and Grease	Cool 4 deg C	ENTA05	D41	06/11/2025	9071B

Date/Time 06/13/25 07:55
Raw Sample Received by:
Raw Sample Relinquished by:

Date/Time 06/13/25 13:30
Raw Sample Received by:
Raw Sample Relinquished by:

TOTAL VOLATILE SOLIDS 160.4

TEMP1 IN:	103 °C 06/13/2025 16:00	**TEMP1 OUT:**	104 °C 06/13/2025 07:00	**Run Number:**	LB136150
TEMP2 IN:	103 °C 06/13/2025 07:30	**TEMP2 OUT:**	104 °C 06/13/2025 09:00	**SUPERVISOR:**	Iwona
TEMP3 IN:	550 °C 06/16/2025 09:30	**TEMP3 OUT:**	540 °C 06/16/2025 11:00	**ANALYST:**	jignesh
TEMP4 IN:	550 °C 06/16/2025 11:30	**TEMP4 OUT:**	550 °C 06/16/2025 13:00	**BalanceID:**	WC SC-6
				OvenID:	WC OVEN-1

Dish #	Lab ID	Empty Dish Weight (g)	Final Empty Dish Weight (g)	Empty Dish + Sample Weight (g)	1st Dish + SampleWt Drying @103-@105°C (g)	Final Dish + SampleWt Drying @103-@105°C (g)	Dish + Samplewt Drying @550(±50)°C (g)	Final Dish + Samplewt Drying @550(±50)°C (g)	Weight Diff (g)	Result (%)
1	LB136150BL	80.3671	80.3671	80.3671	80.3671	80.3671	80.3671	80.3671	0.0000	0
2	Q2301-02	78.4184	78.4184	104.6063	99.3138	99.3138	99.1344	99.1344	0.1794	0.9
3	Q2301-02DUP	90.3280	90.3280	130.931	123.3999	123.3999	123.0994	123.0994	0.3005	0.9

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

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

LB 136150

WORKLIST(Hardcopy Internal Chain)

WorkList Name : tvs q2301 solids **WorkList ID :** 190194 **Department :** Wet-Chemistry **Date :** 06-13-2025 12:32:01

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q2301-02	WC-URBAN-FILL-C	Solid	TVS	Cool 4 deg C	ENTA05	D41	06/11/2025	160.4

Date/Time 06/13/25 12:40

Raw Sample Received by:

Raw Sample Relinquished by:

Date/Time 06/13/25 17:00

Raw Sample Received by:

Raw Sample Relinquished by:

Extraction and Analytical Summary Report

Analysis Method: 1664A
Test: ASTM Oil and Grease
Run Number: LB136151
Analysis Date: 06/13/2025
BalanceID: WC SC-6
OvenID: EXT OVEN-3

ANALYST: jignesh
REVIEWED BY: Iwona
Extraction Date: 06/13/2025
Extration IN Time: 12:44
Extration OUT Time: 13:15
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	LB136151BL	LB136151BL	WATER	1.3	1000	100	2.7486	2.7486	0	2.7487	2.7487	0.0001	0.1
2	LB136151BS	LB136151BS	WATER	1.3	1000	100	3.1563	3.1563	0	3.1730	3.1730	0.0167	16.7
3	Q2301-04	WC-URBAN-FILL-C	WATER	1.3	1000	100	2.9801	2.9801	0	2.9805	2.9805	0.0004	0.4
4	Q2301-04DUP	WC-URBAN-FILL-CDUP	WATER	1.3	1000	100	3.0146	3.0146	0	3.0150	3.0150	0.0004	0.4
5	Q2301-04MS	WC-URBAN-FILL-C	WATER	1.3	1000	100	2.7603	2.7603	0	2.7808	2.7808	0.0205	20.5
6	Q2301-04MSD	WC-URBAN-FILL-C	WATER	1.3	1000	100	3.1603	3.1603	0	3.1810	3.1810	0.0207	20.7

QC Batch# LB136151 **Test:** ASTM Oil and Grease **Analysis Date:** 06/13/2025

Chemicals Used:

Chemical Name	Chemical Lot #
HEXANE	W3204
pH Paper 0-14	M6069
Sodium Sulfate	EP2620
1:1 HCL	WP112782
Silica Gel	NA
Sand	NA

Standards Used:

Standard Name	Amount Used	Standard Lot #
LCSW	2.5 ML	WP112783
LCSWD	NA	NA
MS/MSD	2.5 ML	WO112784

BALANCE CALIBRATION / OVEN Dessicator Data

Analytical Balance ID # : WC SC-6

Before Analysis

0.0020 gram Balance: 0.0018 **(0.0018-0.0022)**
1.0000 gram Balance: 1.0003 **(0.9950-1.0050)**
Bal Check Time: 12:50

In OVEN TEMP1 : 70 °C **Dessicator Time In1 :** 14:41
In Time1: 14:00
Out OVEN TEMP1: 70 °C **Dessicator Time Out1:** 15:30
Out Time1: 14:40

After Analysis

0.0020 gram Balance: 0.0021 **(0.0018-0.0022)**
1.0000 gram Balance: 1.0005 **(0.9950-1.0050)**
Bal Check Time: 17:01

In OVEN TEMP2 : 71 °C **Dessicator Time In2 :** 16:31
In Time2: 16:00
Out OVEN TEMP2: 71 °C **Dessicator Time Out2:** 17:00
Out Time2: 16:30

WORKLIST(Hardcopy Internal Chain)

JB LB136150 JB LB136151

WorkList Name : astm oil & grease q2301 **WorkList ID :** 190192 **Department :** Wet-Chemistry **Date :** 06-13-2025 12:20:21

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q2301-04	WC-URBAN-FILL-C	Solid	ASTM Oil and Grease	Cool 4 deg C	ENTA05	D41	06/11/2025	1664A

Date/Time 06-13-25 12:30

Raw Sample Received by: JB LWC

Raw Sample Relinquished by: JB LWC

Date/Time 06-13-25 17:30

Raw Sample Received by: JB LWC

Raw Sample Relinquished by: JB LWC

TOTAL SOLIDS - SM2540B

SUPERVISOR: Iwona
ANALYST: jignesh
Date: 06/13/2025
Run Number: LB136155
BalanceID: WC SC-6
OvenID: WC OVEN-1
ThermometerID: WET OVEN#1

TEMP1 IN:	103 °C	06/13/2025 11:00	**TEMP1 OUT:**	104 °C	06/13/2025 12:00
TEMP2 IN:	103 °C	06/13/2025 12:30	**TEMP2 OUT:**	104 °C	06/13/2025 13:30
TEMP3 IN:	103 °C	06/13/2025 16:00	**TEMP3 OUT:**	104 °C	06/16/2025 07:00
TEMP4 IN:	103 °C	06/16/2025 07:30	**TEMP4 OUT:**	104 °C	06/16/2025 09:00

Dish #	Lab ID	Client ID	Empty Dish Weight (g)	Final Empty Dish Weight (g)	Dish + Sample Weight (g)	Orignal 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	LB136155BL	LB136155BL	80.3671	80.3671	80.3671	80.3671	80.3671	80.3671	0.0000	0
2	Q2301-02	WC-URBAN-FILL-C	78.4184	78.4184	104.6063	99.3138	99.3138	99.3138	20.8954	79.8
3	Q2301-02DUP	WC-URBAN-FILL-CDUP	90.3280	90.3280	130.931	123.3999	123.3999	123.4000	33.0719	81.5

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

Result % = (C - A) * 100 / (B - A)

WORKLIST(Hardcopy Internal Chain)

LB136149 LB16 LB136155

WorkList Name : ts q2301 solids **WorkList ID :** 190193 **Department :** Wet-Chemistry **Date :** 06-13-2025 12:31:15

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q2301-02	WC-URBAN-FILL-C	Solid	TS	Cool 4 deg C	ENTA05	D41	06/11/2025	SM2540 B

Date/Time 06/13/25 12:40

Raw Sample Received by:

Raw Sample Relinquished by:

Date/Time 06/13/25 17:00

Raw Sample Received by:

Raw Sample Relinquished by:

Reviewed By:Iwona
On:6/16/2025 1:50:39 PM
Inst Id :Filter/Gravimetric

Analytical Summary Report

Analysis Method: 9095B
Reviewed By: Eman
Parameter: Paint Filter
Supervisor Review By: Iwona
Run Number: LB136160
BalanceID: WC SC-7

Seq	LabID	ClientID	Dilution	Weight(g)	Inst.Conc (ml/100g)	Anal Date	Anal Time
1	Q2298-01	AU-05-061125	1	100.05	0.00	06/16/2025	08:50
2	Q2298-01DUP	AU-05-061125DUP	1	100.02	0.00	06/16/2025	08:57
3	Q2301-02	WC-URBAN-FILL-C	1	100.04	0.00	06/16/2025	09:05
4	Q2305-01	TR-04-06122025	1	100.06	0.00	06/16/2025	09:12
5	Q2308-01	EO-02-06122025	1	100.03	0.00	06/16/2025	09:20
6	Q2310-01	TP-7	1	100.01	0.00	06/16/2025	09:27
7	Q2311-01	TP03-MH2MH3-WC	1	100.07	0.00	06/16/2025	09:35
8	Q2311-05	TP04-MH2MH3-WC	1	100.02	0.00	06/16/2025	09:42
9	Q2312-01	TP-1	1	100.05	0.00	06/16/2025	09:50
10	Q2319-01	MH-B	1	100.03	0.00	06/16/2025	09:57
11	Q2322-01	CL-01-061325	1	100.06	0.00	06/16/2025	10:05
12	Q2323-01	PL-01-06132025	1	100.01	0.00	06/16/2025	10:12
13	Q2324-01	HD-01-6132025	1	100.04	0.00	06/16/2025	10:20
14	Q2325-01	TP-8	1	100.07	0.00	06/16/2025	10:28
15	Q2328-01	CHRT25653	1	100.05	0.00	06/16/2025	10:36

WORKLIST(Hardcopy Internal Chain)

1B136160

WorkList Name : PF-061625 **WorkList ID :** 190199 **Department :** Wet-Chemistry **Date :** 06-16-2025 08:27:51

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q2298-01	AU-05-061125	Solid	Paint Filter	Cool 4 deg C	PSEG05		06/11/2025	9095B
Q2301-02	WC-URBAN-FILL-C	Solid	Paint Filter	Cool 4 deg C	ENTA05	D41	06/11/2025	9095B
Q2305-01	TR-04-06122025	Solid	Paint Filter	Cool 4 deg C	PSEG05	D41	06/12/2025	9095B
Q2308-01	EO-02-06122025	Solid	Paint Filter	Cool 4 deg C	PSEG05	D51	06/12/2025	9095B
Q2310-01	TP-7	Solid	Paint Filter	Cool 4 deg C	PSEG03	D41	06/12/2025	9095B
Q2311-01	TP03-MH2MH3-WC	Solid	Paint Filter	Cool 4 deg C	PSEG03	D41	06/11/2025	9095B
Q2311-05	TP04-MH2MH3-WC	Solid	Paint Filter	Cool 4 deg C	PSEG03	D41	06/11/2025	9095B
Q2312-01	TP-1	Solid	Paint Filter	Cool 4 deg C	PSEG03	D51	06/13/2025	9095B
Q2319-01	MH-B	Solid	Paint Filter	Cool 4 deg C	PSEG03	D41	06/13/2025	9095B
Q2322-01	CL-01-061325	Solid	Paint Filter	Cool 4 deg C	PSEG05	D41	06/13/2025	9095B
Q2323-01	PL-01-06132025	Solid	Paint Filter	Cool 4 deg C	PSEG05	D41	06/13/2025	9095B
Q2324-01	HD-01-6132025	Solid	Paint Filter	Cool 4 deg C	PSEG05	D41	06/13/2025	9095B
Q2325-01	TP-8	Solid	Paint Filter	Cool 4 deg C	PSEG03	D51	06/13/2025	9095B
Q2328-01	CHRT25653	Solid	Paint Filter	Cool 4 deg C	PSEG03	D51	06/13/2025	9095B

Date/Time 06/16/25 08:40
Raw Sample Received by: EM (WC)
Raw Sample Relinquished by:

Date/Time 06/16/25 12:50
Raw Sample Received by:
Raw Sample Relinquished by: EM (WC)

Analytical Summary Report

Analysis Method: 1030 **Reviewed By:** Eman

Parameter: Ignitability **Supervisor Review By:** Iwona

Run Number: LB136161

Seq	LabID	ClientID	DF	matrix	Result Status	Burning Rate	Anal Date	Anal Time
1	Q2301-03	WC-URBAN-FILL-C	1	Solid	NO	0.00	06/16/2025	10:45
2	Q2301-03DUP	WC-URBAN-FILL-CDUP	1	Solid	NO	0.00	06/16/2025	10:52
3	Q2307-01	LINDEN-SAA	1	Solid	NO	0.00	06/16/2025	11:00
4	Q2310-01	TP-7	1	Solid	NO	0.00	06/16/2025	11:07
5	Q2310-04	TP-7	1	Solid	NO	0.00	06/16/2025	11:14
6	Q2311-01	TP03-MH2MH3-WC	1	Solid	NO	0.00	06/16/2025	11:22
7	Q2311-04	TP03-MH2MH3-WC	1	Solid	NO	0.00	06/16/2025	11:30
8	Q2311-05	TP04-MH2MH3-WC	1	Solid	NO	0.00	06/16/2025	11:37
9	Q2311-08	TP04-MH2MH3-WC	1	Solid	NO	0.00	06/16/2025	11:45
10	Q2312-01	TP-1	1	Solid	NO	0.00	06/16/2025	11:52
11	Q2312-04	TP-1	1	Solid	NO	0.00	06/16/2025	12:00
12	Q2319-01	MH-B	1	Solid	NO	0.00	06/16/2025	12:07
13	Q2319-04	MH-B	1	Solid	NO	0.00	06/16/2025	12:15
14	Q2320-01	WC	1	Solid	NO	0.00	06/16/2025	12:22
15	Q2325-01	TP-8	1	Solid	NO	0.00	06/16/2025	12:30
16	Q2325-04	TP-8	1	Solid	NO	0.00	06/16/2025	12:37

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

1B136161

WORKLIST(Hardcopy Internal Chain)

WorkList Name : IGN-061625 **WorkList ID :** 190200 **Department :** Wet-Chemistry **Date :** 06-16-2025 08:28:02

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q2301-03	WC-URBAN-FILL-C	Solid	Ignitability	Cool 4 deg C	ENTA05	D41	06/11/2025	1030
Q2307-01	LINDEN-SAA	Solid	Ignitability	Cool 4 deg C	PSEG03	D51	06/12/2025	1030
Q2310-01	TP-7	Solid	Ignitability	Cool 4 deg C	PSEG03	D41	06/12/2025	1030
Q2310-04	TP-7	Solid	Ignitability	Cool 4 deg C	PSEG03	D41	06/12/2025	1030
Q2311-01	TP03-MH2MH3-WC	Solid	Ignitability	Cool 4 deg C	PSEG03	D41	06/11/2025	1030
Q2311-04	TP03-MH2MH3-WC	Solid	Ignitability	Cool 4 deg C	PSEG03	D41	06/11/2025	1030
Q2311-05	TP04-MH2MH3-WC	Solid	Ignitability	Cool 4 deg C	PSEG03	D41	06/11/2025	1030
Q2311-08	TP04-MH2MH3-WC	Solid	Ignitability	Cool 4 deg C	PSEG03	D41	06/11/2025	1030
Q2312-01	TP-1	Solid	Ignitability	Cool 4 deg C	PSEG03	D51	06/13/2025	1030
Q2312-04	TP-1	Solid	Ignitability	Cool 4 deg C	PSEG03	D51	06/13/2025	1030
Q2319-01	MH-B	Solid	Ignitability	Cool 4 deg C	PSEG03	D41	06/13/2025	1030
Q2319-04	MH-B	Solid	Ignitability	Cool 4 deg C	PSEG03	D41	06/13/2025	1030
Q2320-01	WC	Solid	Ignitability	Cool 4 deg C	FIRS02	D41	06/13/2025	1030
Q2325-01	TP-8	Solid	Ignitability	Cool 4 deg C	PSEG03	D51	06/13/2025	1030
Q2325-04	TP-8	Solid	Ignitability	Cool 4 deg C	PSEG03	D51	06/13/2025	1030

Date/Time 06/16/25 08:40
Raw Sample Received by: EM (WC)
Raw Sample Relinquished by:

Date/Time 06/16/25 12:50
Raw Sample Received by:
Raw Sample Relinquished by: EM (WC)

LB136162

Test results | Aquakem 7.2AQ1 | Page:

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

Reviewed by : 12 | Instrument ID : Konelab

6/16/2025 12:27

Test: Total CN

Sample Id	Result	Dil. 1 +	Response	Errors
ICV1	94.005	0.0	0.078	
ICB1	1.284	0.0	0.001	
CCV1	234.000	0.0	0.194	
CCB1	1.251	0.0	0.001	
PB168487BL	1.283	0.0	0.001	
Q2301-03	1.333	0.0	0.001	
Q2301-03DUP	1.234	0.0	0.001	
Q2310-04	1.246	0.0	0.001	
Q2311-04	1.284	0.0	0.001	
Q2311-08	1.161	0.0	0.001	
Q2312-04	1.438	0.0	0.001	
Q2319-04	1.209	0.0	0.001	
Q2320-01	1.388	0.0	0.001	
Q2325-04	1.186	0.0	0.001	
CCV2	230.887	0.0	0.192	
CCB2	1.336	0.0	0.001	

N	16
Mean	35.970
SD	80.0921
CV%	222.66

Aquakem v. 7.2AQ1
Results from time period:
Mon Jun 16 11:25:27 2025
Mon Jun 16 12:24:44 2025

Sample Id	Sam/Ctr/cA	Test short r	Test type	Result	Result unit	Result date and time
0.0PPBCN	A	Total CN	P	1.5054	µg/l	6/16/2025 11:42:50
5.0PPBCN	A	Total CN	P	5.9181	µg/l	6/16/2025 11:42:51
10PPBCN	A	Total CN	P	10.9305	µg/l	6/16/2025 11:42:52
50PPBCN	A	Total CN	P	48.7206	µg/l	6/16/2025 11:42:53
100PPBCN	A	Total CN	P	99.7388	µg/l	6/16/2025 11:42:54
250PPBCN	A	Total CN	P	246.0683	µg/l	6/16/2025 11:42:55
500PPBCN	A	Total CN	P	502.1182	µg/l	6/16/2025 11:42:56
ICV1	S	Total CN	P	94.0052	µg/l	6/16/2025 12:14:22
ICB1	S	Total CN	P	1.2836	µg/l	6/16/2025 12:14:23
CCV1	S	Total CN	P	234.0004	µg/l	6/16/2025 12:14:26
CCB1	S	Total CN	P	1.2511	µg/l	6/16/2025 12:14:27
PB168487BL	S	Total CN	P	1.2827	µg/l	6/16/2025 12:14:30
Q2301-03	S	Total CN	P	1.3335	µg/l	6/16/2025 12:14:31
Q2301-03DUP	S	Total CN	P	1.2344	µg/l	6/16/2025 12:21:56
Q2310-04	S	Total CN	P	1.2455	µg/l	6/16/2025 12:21:57
Q2311-04	S	Total CN	P	1.2835	µg/l	6/16/2025 12:21:58
Q2311-08	S	Total CN	P	1.1609	µg/l	6/16/2025 12:21:59
Q2312-04	S	Total CN	P	1.4376	µg/l	6/16/2025 12:22:00
Q2319-04	S	Total CN	P	1.2092	µg/l	6/16/2025 12:22:01
Q2320-01	S	Total CN	P	1.3884	µg/l	6/16/2025 12:22:02
Q2325-04	S	Total CN	P	1.1863	µg/l	6/16/2025 12:22:03
CCV2	S	Total CN	P	230.8865	µg/l	6/16/2025 12:22:06
CCB2	S	Total CN	P	1.3365	µg/l	6/16/2025 12:24:44

Calibration results Aquakem 7.2AQ1 Page: 1

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

Reviewed by : 12 Instrument ID : Konelab

6/16/2025 11:43

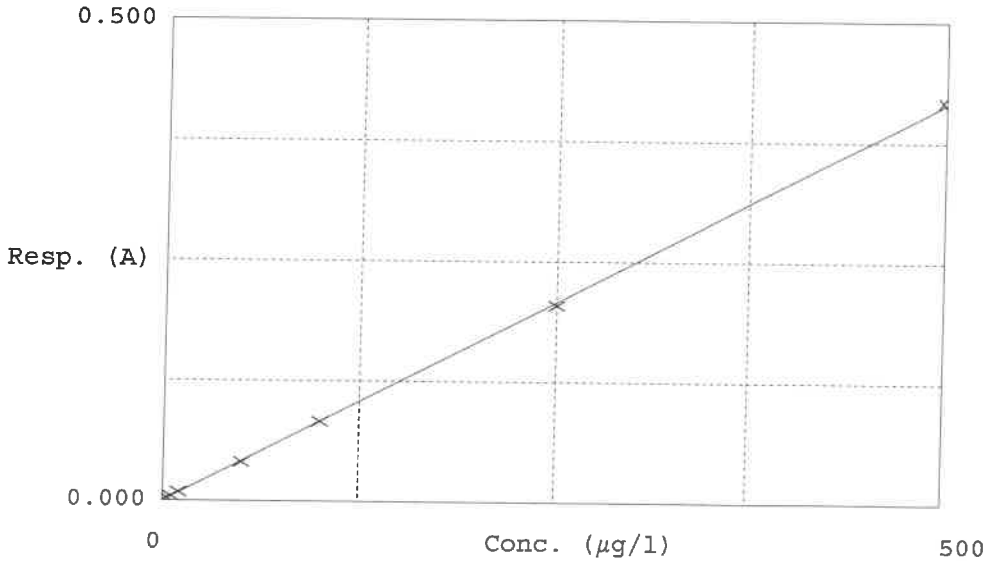
Test Total CN

Accepted 6/16/2025 11:43

Factor 1204
Bias 0

Coeff. of det. 0.999875

Errors



	Calibrator	Response	Calc. con.	Conc.	Errors
1	0.0PPBCN	0.001	1.5054	0.0000	—
2	5.0PPBCN	0.005	5.9181	5.0000	18.4
3	10PPBCN	0.009	10.9305	10.0000	9.3
4	50PPBCN	0.040	48.7206	50.0000	-2.6
5	100PPBCN	0.083	99.7388	100.0000	-0.3
6	250PPBCN	0.204	246.0683	250.0000	-1.6
7	500PPBCN	0.417	502.1182	500.0000	0.4

Re

12
6/16/25

LB 136163

Test results

Aquakem 7.2AQ1

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

6/16/2025 14:26

Reviewed by : 12

Instrument ID : Konelab

Test: Ammonia-N

Sample Id	Result	Dil.	1 +	Response	Errors
ICV1	0.997	0.0		0.258	
ICB1	0.006	0.0		0.061	
CCV1	1.009	0.0		0.260	
CCB1	0.005	0.0		0.061	
PB168481BL	0.007	0.0		0.061	
PB168481BS	0.995	0.0		0.258	
Q2301-04	-0.003	0.0		0.059	
Q2301-04DUP	0.004	0.0		0.061	
Q2301-04MS	0.959	0.0		0.251	
Q2301-04MSD	1.033	0.0		0.265	
CCV2	0.965	0.0		0.252	
CCB2	0.014	0.0		0.062	

N	12
Mean	0.499
SD	0.5160
CV%	103.34

Aquakem v. 7.2AQ1
Results from time period:
Mon Jun 16 13:28:39 2025
Mon Jun 16 14:07:23 2025

Sample Id	Sam/Ctr/cA	Test short r	Test type	Result	Result unit	Result date and time	Stat
0.0000PPM	A	Ammonia-N	P	0.0011	mg/l	6/16/2025 13:28:39	
0.012PPM	A	Ammonia-N	P	0.103	mg/l	6/16/2025 13:28:40	
0.024PPM	A	Ammonia-N	P	0.2101	mg/l	6/16/2025 13:28:41	
0.060PPM	A	Ammonia-N	P	0.3994	mg/l	6/16/2025 13:28:42	
0.12PPM	A	Ammonia-N	P	1.0065	mg/l	6/16/2025 13:28:43	
0.30PPM	A	Ammonia-N	P	1.286	mg/l	6/16/2025 13:28:44	
0.60PPM	A	Ammonia-N	P	2.0273	mg/l	6/16/2025 13:28:45	
ICV1	S	Ammonia-N	P	0.997	mg/l	6/16/2025 13:59:29	
ICB1	S	Ammonia-N	P	0.0061	mg/l	6/16/2025 13:59:31	
CCV1	S	Ammonia-N	P	1.0089	mg/l	6/16/2025 13:59:32	
CCB1	S	Ammonia-N	P	0.0046	mg/l	6/16/2025 13:59:35	
PB168481BL	S	Ammonia-N	P	0.0073	mg/l	6/16/2025 13:59:37	
PB168481BS	S	Ammonia-N	P	0.9953	mg/l	6/16/2025 13:59:39	
Q2301-04	S	Ammonia-N	P	-0.0025	mg/l	6/16/2025 14:07:17	
Q2301-04DUP	S	Ammonia-N	P	0.0044	mg/l	6/16/2025 14:07:18	
Q2301-04MS	S	Ammonia-N	P	0.9588	mg/l	6/16/2025 14:07:19	
Q2301-04MSD	S	Ammonia-N	P	1.0327	mg/l	6/16/2025 14:07:20	
CCV2	S	Ammonia-N	P	0.9652	mg/l	6/16/2025 14:07:21	
CCB2	S	Ammonia-N	P	0.0139	mg/l	6/16/2025 14:07:22	

Calibration results Aquakem 7.2AQ1 Page: 1

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

Reviewed by : 12

6/16/2025 13:30 Instrument ID : Konelab

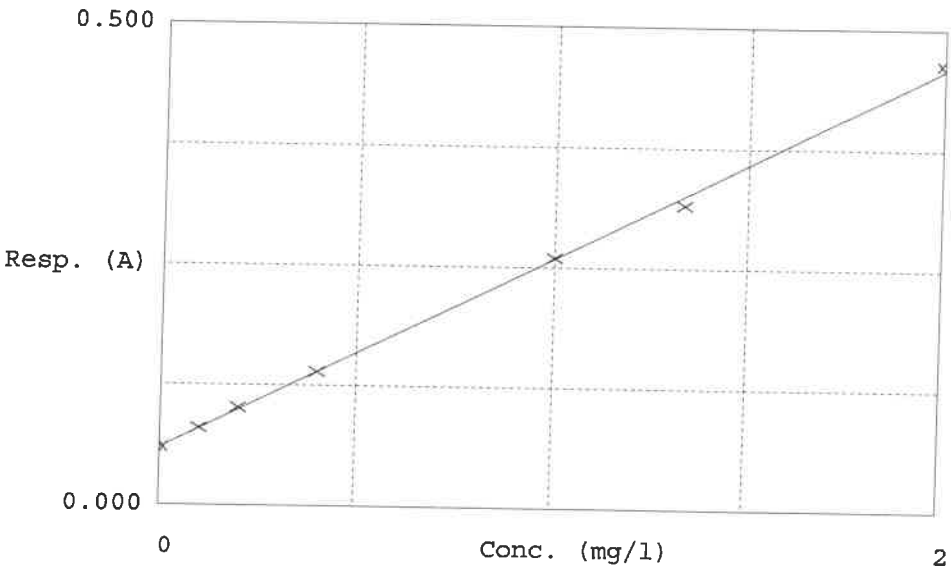
Test Ammonia-N

Accepted 6/16/2025 13:29

Factor 5.023
Bias 0.060

Coeff. of det. 0.999067

Errors



	Calibrator	Response	Calc. con.	Conc.	Errors
1	0.00PPM	0.060	0.0011	0.0000	-
2	NH3-2PPM	0.080	0.1030	0.1000	3.0
3	NH3-2PPM	0.101	0.2101	0.2000	5.1
4	NH3-2PPM	0.139	0.3994	0.4000	-0.2
5	NH3-2PPM	0.260	1.0065	1.0000	0.6
6	NH3-2PPM	0.316	1.2860	1.3333	-1.1
7	NH3-2PPM	0.463	2.0273	2.0000	1.4

Re

12
6/16/25

CHEMTECH

Analytical Summary Report

Analysis Method: 9034
Parameter: Reactive Sulfide
Run Number: LB136168

ANALYST: Iwona
SUPERVISOR REVIEW BY: jignesh
Constant: 16000
Normality1: 0.025
Normality2: 0.025

Reagent/Standard	Lot/Log #
SODIUM THIOSULFATE,0.025N,4LITRE	W3105
IODINE SOLUTION .025N 1L	W3213
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	PB168488BL		1	5.05	50	2.00	0.00	1.94	1.94	0.06	0.00	0.00	06/16/2025	13:15
2	Q2301-03		1	5.03	50	2.00	0.00	1.88	1.88	0.12	0.06	4.77	06/16/2025	13:18
3	Q2301-03DUP		1	5.01	50	2.00	0.00	1.88	1.88	0.12	0.06	4.79	06/16/2025	13:21
4	Q2310-04		1	5.04	50	2.00	0.00	1.90	1.90	0.10	0.04	3.17	06/16/2025	13:25
5	Q2311-04		1	5.06	50	2.00	0.00	1.86	1.86	0.14	0.08	6.32	06/16/2025	13:28
6	Q2311-08		1	5.02	50	2.00	0.00	1.88	1.88	0.12	0.06	4.78	06/16/2025	13:31
7	Q2312-04		1	5.03	50	2.00	0.00	1.86	1.86	0.14	0.08	6.36	06/16/2025	13:34
8	Q2319-04		1	5.04	50	2.00	0.00	1.92	1.92	0.08	0.02	1.59	06/16/2025	13:37
9	Q2320-01		1	5.07	50	2.00	0.00	1.90	1.90	0.10	0.04	3.16	06/16/2025	13:40
10	Q2325-04		1	5.01	50	2.00	0.00	1.88	1.88	0.12	0.06	4.79	06/16/2025	13:44

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

Reviewed By:jignesh
On:6/17/2025 10:50:00 AM
Inst Id :SPECTROPHOTOME

Analytical Summary Report

Analysis Method: SM5220 D
ANALYST: Iwona
Parameter: ASTM COD
SUPERVISOR REVIEW BY: jignesh
Run Number: LB136170

Reagent/Standard	Lot/Log #
COD calibration std. 150 ppm	WP113238
COD calibration std. 100 ppm	WP113237
COD calibration std. 50 ppm	WP113235
COD calibration std. 10 ppm	WP113234
COD calibration std. 0 ppm	WP113233
COD ICV-LCS std, 50ppm	WP113240
COD calibration std. 75 ppm	WP113236
COD CCV std, 50ppm	WP113445
COD ICV-LCS std, 50ppm	WP113446
RL CHECK	WP113448
COD Digestion Vials Low Level 0-150Mg/L	W3129

Temp In(C): 148	**Date In:** 06/16/2025	**Time In:** 10:20
Temp Out(C): 151	**Date Out:** 06/16/2025	**Time Out:** 12:20

Intercept: 0.8179 **Slope:** 0.9847 **Regression:** 0.9995

Seq	Lab ID	TrueValue (mg/l)	DF	MATRIX	Reading	Result (mg/l)	%D	Anal Date	Anal Time
1	CAL1	0	1	Water	0.000	-0.831		05/28/2025	13:10
2	CAL2	10	1	Water	9.000	8.309	-16.9	05/28/2025	13:10
3	CAL3	50	1	Water	52.000	51.977	4	05/28/2025	13:11
4	CAL4	75	1	Water	77.000	77.366	3.2	05/28/2025	13:11
5	CAL5	100	1	Water	99.000	99.708	-0.3	05/28/2025	13:12
6	CAL6	150	1	Water	147.000	148.453	-1	05/28/2025	13:12

Reviewed By:jignesh
On:6/17/2025 10:50:00 AM
Inst Id :SPECTROPHOTOME

Analytical Summary Report

Analysis Method: SM5220 D
ANALYST: Iwona
Parameter: ASTM COD
SUPERVISOR REVIEW BY: jignesh
Run Number: LB136170

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	51.000	50.962	05/28/2025	13:13
2	ICB		NA	NA	1	Water	0.000	-0.831	05/28/2025	13:13
3	CCV1	50	NA	NA	1	Water	51.000	50.962	06/16/2025	13:30
4	CCB1		NA	NA	1	Water	1.000	0.185	06/16/2025	13:30
5	RL Check		NA	NA	1	Water	8.000	7.294	06/16/2025	13:31
6	LB136170BL		NA	NA	1	Water	1.000	0.185	06/16/2025	13:31
7	LB136170BS	50	NA	NA	1	Water	49.000	48.931	06/16/2025	13:32
8	Q2301-04		NA	NA	1	Water	11.000	10.340	06/16/2025	13:32
9	Q2301-04DUP		NA	NA	1	Water	11.000	10.340	06/16/2025	13:33
10	Q2301-04MS	50	NA	NA	1	Water	57.000	57.055	06/16/2025	13:33
11	Q2301-04MSD	50	NA	NA	1	Water	58.000	58.071	06/16/2025	13:34
12	CCV2	50	NA	NA	1	Water	51.000	50.962	06/16/2025	13:34
13	CCB2		NA	NA	1	Water	1.000	0.185	06/16/2025	13:35

WORKLIST(Hardcopy Internal Chain)

LB136170

WorkList Name : ASTM COD-061625 **WorkList ID :** 190208 **Department :** Wet-Chemistry **Date :** 06-16-2025 09:27:37

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q2301-04	WC-URBAN-FILL-C	Solid	ASTM COD	Cool 4 deg C	ENTA05	D41	06/11/2025	SM5220 D

Date/Time 06/16/25 10:00

Raw Sample Received by: 12(UC)

Raw Sample Relinquished by: [illegible]

Date/Time NA

Raw Sample Received by: [illegible]

Raw Sample Relinquished by: [illegible]

TOTAL SOLIDS - SM2540B

SUPERVISOR: Iwona
ANALYST: jignesh
Date: 06/13/2025
Run Number: LB136173
BalanceID: WC SC-6
OvenID: WC OVEN-1
ThermometerID: WET OVEN#1

TEMP1 IN:	104 °C	06/13/2025 11:00	**TEMP1 OUT:**	103 °C	06/13/2025 12:00
TEMP2 IN:	104 °C	06/13/2025 12:30	**TEMP2 OUT:**	103 °C	06/13/2025 13:30
TEMP3 IN:	104 °C	06/13/2025 15:30	**TEMP3 OUT:**	104 °C	06/16/2025 07:00
TEMP4 IN:	103 °C	06/16/2025 07:30	**TEMP4 OUT:**	103 °C	06/16/2025 09:00

Dish #	Lab ID	Client ID	Empty Dish Weight (g)	Final Empty Dish Weight (g)	Sample Vol (ml)	Orignal 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	LB136173BL	LB136173BL	135.6871	135.6871	100	135.6871	135.6871	135.6870	0.0000	0
2	Q2301-04	WC-URBAN-FILL-C	152.1894	152.1894	100	152.1977	152.1977	152.1980	0.0083	83
3	Q2301-04DUP	WC-URBAN-FILL-CDUP	156.5840	156.5840	100	156.5920	156.5920	156.5920	0.0080	80

A = Sample Volume (ml)
B = Final Empty Dish Weight (g)
C = Final Dish+Sample weight after Drying @103-@105°C (g)

Result mg/L = ((C - B) / A) * 1000 * 1000

WORKLIST(Hardcopy Internal Chain)

LB136149 LB136155 LB136173

WorkList Name : astm ts q2301 **WorkList ID :** 190191 **Department :** Wet-Chemistry **Date :** 06-13-2025 12:19:28

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q2301-04	WC-URBAN-FILL-C	Solid	ASTM TS	Cool 4 deg C	ENTA05	D41	06/11/2025	SM2540 B

Date/Time 06/13/25 13:00

Raw Sample Received by:

Raw Sample Relinquished by:

Date/Time 06/13/25 16:00

Raw Sample Received by:

Raw Sample Relinquished by:

Alliance TECHNICAL GROUP

Water ASTM Ammonia Preparation Sheet

PB168481

SOP ID : MSM4500-NH3 B,G-Ammonia-18

SDG No : N/A

Matrix : WATER

Pippete ID : WC

Balance ID : N/A

Hood ID : HOOD#2

Block ID : WC-DIST-BLOCK-1

Weigh By : N/A

Start Digest Date: 06/13/2025 **Time :** 12:50 **Temp :** 150 °C

End Digest Date: 06/13/2025 **Time :** 13:55 **Temp :** 160 °C

Digestion tube ID : M5595

Filter paper ID : N/A

pH Meter ID : N/A

Block Thermometer ID : WC CYANIDE

Prep Technician Signature: 12

Supervisor Signature: JP

Standared Name	MLS USED	STD REF. # FROM LOG
LCSW	1.0ML	WP113449
MS/MSD SPIKE SOL.	1.0ML	WP113450
PBW	50.0ML	W3112
RL CHECK	N/A	AS PER PB168427
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	WP112828
pH strip-Ammonia	N/A	W3133
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
06/13/25 14:10	12 (WC)	12 (WC)
	Preparation Group	**Analysis Group**

Alliance TECHNICAL GROUP

Water ASTM Ammonia Preparation Sheet

PB168481

Lab Sample ID	Client Sample ID	Initial Vol (ml)	Final Vol (ml)	pH	Sulfide	Oxidizing	Nitrate/ Nitrite	Comment	Prep Pos
PB168481BL	PBW481	50	50	N/A	N/A	Negative	N/A	AFTER ADDING 6N NAOH PH IS 9.5	N/A
PB168481BS	LCS481	50	50	N/A	N/A	Negative	N/A	AFTER ADDING 6N NAOH PH IS 9.5	N/A
Q2301-04	WC-URBAN-FILL-C	50	50	N/A	N/A	Negative	N/A	AFTER ADDING 6N NAOH PH IS 9.5	N/A
Q2301-04DUP	WC-URBAN-FILL-CDUP	50	50	N/A	N/A	Negative	N/A	AFTER ADDING 6N NAOH PH IS 9.5	N/A
Q2301-04MS	WC-URBAN-FILL-CMS	50	50	N/A	N/A	Negative	N/A	AFTER ADDING 6N NAOH PH IS 9.5	N/A
Q2301-04MSD	WC-URBAN-FILL-CMSD	50	50	N/A	N/A	Negative	N/A	AFTER ADDING 6N NAOH PH IS 9.5	N/A

Alliance TECHNICAL GROUP

Soil/Sludge Reactive Cyanide Preparation Sheet

PB168487

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

SDG No : N/A

Matrix : SOIL

Pippete ID : N/A

Balance ID : WC SC-7

Hood ID : HOOD#1

Block ID : MC-1,MC-2

Weigh By : JP

Start Digest Date: 06/16/2025 **Time :** 08:30 **Temp :** N/A

End Digest Date: 06/16/2025 **Time :** 10:00 **Temp :** N/A

Digestion tube ID : M5595

Filter paper ID : N/A

pH Meter ID : N/A

Block Thermometer ID : N/A

Prep Technician Signature: EM

Supervisor Signature: IZ

Standared 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
0.25N 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

LAB SAMPLE ID	CLIENT SAMPLE ID		Comment

Extraction Conformance/Non-Conformance Comments:

N/A

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
06/16/25 16:15	EM (WC)	IZ (WC)
	Preparation Group	Analysis Group

Alliance TECHNICAL GROUP

Soil/Sludge Reactive Cyanide Preparation Sheet

PB168487

Lab Sample ID	Client Sample ID	Initial Weight (g)	Final Vol (ml)	pH	Sulfide	Oxidizing	Nitrate/ Nitrite	Comment	Prep Pos
PB168487BL	PB168487BL	5.05	50	N/A	N/A	N/A	N/A	N/A	N/A
Q2301-03DUP	WC-URBAN-FILL-CDUP	5.02	50	N/A	N/A	N/A	N/A	N/A	N/A
Q2301-03	WC-URBAN-FILL-C	5.03	50	N/A	N/A	N/A	N/A	N/A	N/A
Q2310-04	TP-7	5.04	50	N/A	N/A	N/A	N/A	N/A	N/A
Q2311-04	TP03-MH2MH3-WC	5.01	50	N/A	N/A	N/A	N/A	N/A	N/A
Q2311-08	TP04-MH2MH3-WC	5.06	50	N/A	N/A	N/A	N/A	N/A	N/A
Q2312-04	TP-1	5.03	50	N/A	N/A	N/A	N/A	N/A	N/A
Q2319-04	MH-B	5.04	50	N/A	N/A	N/A	N/A	N/A	N/A
Q2320-01	WC	5.08	50	N/A	N/A	N/A	N/A	N/A	N/A
Q2325-04	TP-8	5.01	50	N/A	N/A	N/A	N/A	N/A	N/A

Alliance TECHNICAL GROUP

Soil/Sludge Reactive Sulfide Preparation Sheet

PB168488

SOP ID : M9030B-Sulfide-12

SDG No : N/A

Start Digest Date: 06/16/2025 **Time :** 08:30 **Temp :** N/A

Matrix : SOIL

End Digest Date: 06/16/2025 **Time :** 10:00 **Temp :** N/A

Pippete 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:** EM

Weigh By : RM **pH Meter ID :** N/A **Supervisor Signature:** 12

Standared 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	WP113086
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:

N/A

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

6/16/25

Alliance TECHNICAL GROUP

Soil/Sludge Reactive Sulfide Preparation Sheet

PB168488

Lab Sample ID	Client Sample ID	Initial Weight (g)	Final Vol (ml)	pH	Sulfide	Oxidizing	Nitrate/ Nitrite	Comment	Prep Pos
PB168488BL	PB168488BL	5.05	50	N/A	N/A	N/A	N/A	N/A	N/A
Q2301-03DUP	WC-URBAN-FILL-CDUP	5.01	50	N/A	N/A	N/A	N/A	N/A	N/A
Q2301-03	WC-URBAN-FILL-C	5.03	50	N/A	N/A	N/A	N/A	N/A	N/A
Q2310-04	TP-7	5.04	50	N/A	N/A	N/A	N/A	N/A	N/A
Q2311-04	TP03-MH2MH3-WC	5.06	50	N/A	N/A	N/A	N/A	N/A	N/A
Q2311-08	TP04-MH2MH3-WC	5.02	50	N/A	N/A	N/A	N/A	N/A	N/A
Q2312-04	TP-1	5.03	50	N/A	N/A	N/A	N/A	N/A	N/A
Q2319-04	MH-B	5.04	50	N/A	N/A	N/A	N/A	N/A	N/A
Q2320-01	WC	5.07	50	N/A	N/A	N/A	N/A	N/A	N/A
Q2325-04	TP-8	5.01	50	N/A	N/A	N/A	N/A	N/A	N/A

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Instrument ID: WC PH METER-1

Daily Analysis Runlog For Sequence/QCBatch ID # LB136136

Review By	jignesh	Review On	6/12/2025 4:53:59 PM
Supervise By	Iwona	Supervise On	6/13/2025 12:26:31 PM
SubDirectory	LB136136	Test	Corrosivity

STD. NAME	STD REF.#
ICAL Standard	N/A
ICV Standard	N/A
CCV Standard	N/A
ICSA Standard	N/A
CRI Standard	N/A
LCS Standard	N/A
Chk Standard	W3178,W3093,W3191,W3071,W3161,W3200

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	CAL1	CAL1	CAL	06/12/25 15:00		Jignesh	OK
2	CAL2	CAL2	CAL	06/12/25 15:01		Jignesh	OK
3	CAL3	CAL3	CAL	06/12/25 15:05		Jignesh	OK
4	ICV	ICV	ICV	06/12/25 15:09		Jignesh	OK
5	CCV1	CCV1	CCV	06/12/25 15:11		Jignesh	OK
6	Q2287-02	CONCRETE-SLAB	SAM	06/12/25 15:25		Jignesh	OK
7	Q2295-04	TP01-MH1-WC	SAM	06/12/25 15:50		Jignesh	OK
8	Q2295-08	TP02-MH5-WC	SAM	06/12/25 16:05		Jignesh	OK
9	Q2296-04	WC-1	SAM	06/12/25 16:15		Jignesh	OK
10	Q2296-08	WC-2	SAM	06/12/25 16:20		Jignesh	OK
11	Q2296-12	WC-3	SAM	06/12/25 16:30		Jignesh	OK
12	Q2296-16	WC-4	SAM	06/12/25 16:40		Jignesh	OK
13	Q2296-20	WC-5	SAM	06/12/25 16:45		Jignesh	OK
14	Q2296-24	WC-6	SAM	06/12/25 16:50		Jignesh	OK
15	Q2297-04	TP-3	SAM	06/12/25 17:00		Jignesh	OK
16	CCV2	CCV2	CCV	06/12/25 17:01		Jignesh	OK
17	Q2301-03	WC-URBAN-FILL-C	SAM	06/12/25 17:10		Jignesh	OK
18	Q2301-03DUP	WC-URBAN-FILL-CD	DUP	06/12/25 17:11		Jignesh	OK

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Instrument ID: WC PH METER-1

Daily Analysis Runlog For Sequence/QCBatch ID # LB136136

Review By	jignesh	Review On	6/12/2025 4:53:59 PM
Supervise By	Iwona	Supervise On	6/13/2025 12:26:31 PM
SubDirectory	LB136136	Test	Corrosivity

STD. NAME	STD REF.#
ICAL Standard	N/A
ICV Standard	N/A
CCV Standard	N/A
ICSA Standard	N/A
CRI Standard	N/A
LCS Standard	N/A
Chk Standard	W3178,W3093,W3191,W3071,W3161,W3200

19	Q2310-04	TP-7	SAM	06/12/25 17:15		Jignesh	OK
20	CCV3	CCV3	CCV	06/12/25 17:20		Jignesh	OK

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Instrument ID: WC PH METER-1

Daily Analysis Runlog For Sequence/QCBatch ID # LB136137

Review By	jignesh	Review On	6/12/2025 4:53:16 PM
Supervise By	Iwona	Supervise On	6/17/2025 2:39:44 PM
SubDirectory	LB136137	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,W3200

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	CAL1	CAL1	CAL	06/12/25 15:00		Jignesh	OK
2	CAL2	CAL2	CAL	06/12/25 15:01		Jignesh	OK
3	CAL3	CAL3	CAL	06/12/25 15:05		Jignesh	OK
4	ICV	ICV	ICV	06/12/25 15:09		Jignesh	OK
5	CCV1	CCV1	CCV	06/12/25 15:11		Jignesh	OK
6	Q2298-01	AU-05-061125	SAM	06/12/25 17:05		Jignesh	OK
7	Q2301-02	WC-URBAN-FILL-C	SAM	06/12/25 17:10		Jignesh	OK
8	Q2301-02DUP	WC-URBAN-FILL-CD	DUP	06/12/25 17:11		Jignesh	OK
9	CCV2	CCV2	CCV	06/12/25 17:26		Jignesh	OK

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Instrument ID: WC SC-3

Daily Analysis Runlog For Sequence/QCBatch ID # LB136142

Review By	jignesh	Review On	6/13/2025 12:01:11 PM
Supervise By	Iwona	Supervise On	6/17/2025 2:46:41 PM
SubDirectory	LB136142	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	W3204,NA,EP2620,NA,NA,E2865,WP112785,NA,WP112786

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	LB136142BL	LB136142BL	MB	06/13/25 09:30		jignesh	OK
2	LB136142BS	LB136142BS	LCS	06/13/25 09:30		jignesh	OK
3	Q2285-04	HAM-CONCRETE	SAM	06/13/25 09:30		jignesh	OK
4	Q2301-02	WC-URBAN-FILL-C	SAM	06/13/25 09:30		jignesh	OK
5	Q2301-02DUP	WC-URBAN-FILL-CD	DUP	06/13/25 09:30		jignesh	OK
6	Q2301-02MS	WC-URBAN-FILL-CM	MS	06/13/25 09:30		jignesh	OK
7	Q2301-02MSD	WC-URBAN-FILL-CM	MSD	06/13/25 09:30		jignesh	OK

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Instrument ID: WC SC-3

Daily Analysis Runlog For Sequence/QCBatch ID # LB136150

Review By	jignesh	Review On	6/17/2025 12:47:14 PM
Supervise By	Iwona	Supervise On	6/17/2025 1:02:01 PM
SubDirectory	LB136150	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	LB136150BL	LB136150BL	MB	06/13/25 16:00		jignesh	OK
2	Q2301-02	WC-URBAN-FILL-C	SAM	06/13/25 16:00		jignesh	OK
3	Q2301-02DUP	WC-URBAN-FILL-CD	DUP	06/13/25 16:00		jignesh	OK

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Instrument ID: WC SC-3

Daily Analysis Runlog For Sequence/QCBatch ID # LB136151

Review By	jignesh	Review On	6/13/2025 12:54:48 PM
Supervise By	Iwona	Supervise On	6/13/2025 2:47:18 PM
SubDirectory	LB136151	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	W3204,M6069,EP2620,WP112782,NA,NA,WP112783,NA,WO112784

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	LB136151BL	LB136151BL	MB	06/13/25 14:00		jignesh	OK
2	LB136151BS	LB136151BS	LCS	06/13/25 14:00		jignesh	OK
3	Q2301-04	WC-URBAN-FILL-C	SAM	06/13/25 14:00		jignesh	OK
4	Q2301-04DUP	WC-URBAN-FILL-CD	DUP	06/13/25 14:00		jignesh	OK
5	Q2301-04MS	WC-URBAN-FILL-CM	MS	06/13/25 14:00		jignesh	OK
6	Q2301-04MSD	WC-URBAN-FILL-CM	MSD	06/13/25 14:00		jignesh	OK

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Instrument ID: WC SC-3

Daily Analysis Runlog For Sequence/QCBatch ID # LB136155

Review By	jignesh	Review On	6/17/2025 12:44:59 PM
Supervise By	Iwona	Supervise On	6/17/2025 1:01:22 PM
SubDirectory	LB136155	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	LB136155BL	LB136155BL	MB	06/13/25 11:00		jignesh	OK
2	Q2301-02	WC-URBAN-FILL-C	SAM	06/13/25 11:00		jignesh	OK
3	Q2301-02DUP	WC-URBAN-FILL-CD	DUP	06/13/25 11:00		jignesh	OK

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Instrument ID: FILTER/GRAVIMETRIC

Daily Analysis Runlog For Sequence/QCBatch ID # LB136160

Review By	Eman	Review On	6/16/2025 1:48:32 PM
Supervise By	Iwona	Supervise On	6/16/2025 1:50:39 PM
SubDirectory	LB136160	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	Q2298-01	AU-05-061125	SAM	06/16/25 08:50		Eman	OK
2	Q2298-01DUP	AU-05-061125DUP	DUP	06/16/25 08:57		Eman	OK
3	Q2301-02	WC-URBAN-FILL-C	SAM	06/16/25 09:05		Eman	OK
4	Q2305-01	TR-04-06122025	SAM	06/16/25 09:12		Eman	OK
5	Q2308-01	EO-02-06122025	SAM	06/16/25 09:20		Eman	OK
6	Q2310-01	TP-7	SAM	06/16/25 09:27		Eman	OK
7	Q2311-01	TP03-MH2MH3-WC	SAM	06/16/25 09:35		Eman	OK
8	Q2311-05	TP04-MH2MH3-WC	SAM	06/16/25 09:42		Eman	OK
9	Q2312-01	TP-1	SAM	06/16/25 09:50		Eman	OK
10	Q2319-01	MH-B	SAM	06/16/25 09:57		Eman	OK
11	Q2322-01	CL-01-061325	SAM	06/16/25 10:05		Eman	OK
12	Q2323-01	PL-01-06132025	SAM	06/16/25 10:12		Eman	OK
13	Q2324-01	HD-01-6132025	SAM	06/16/25 10:20		Eman	OK
14	Q2325-01	TP-8	SAM	06/16/25 10:28		Eman	OK
15	Q2328-01	CHRT25653	SAM	06/16/25 10:36		Eman	OK

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Fax : 908 789 8922

Instrument ID: FLAME

Daily Analysis Runlog For Sequence/QCBatch ID # LB136161

Review By	Eman	Review On	6/16/2025 1:49:13 PM
Supervise By	Iwona	Supervise On	6/16/2025 1:50:22 PM
SubDirectory	LB136161	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	Q2301-03	WC-URBAN-FILL-C	SAM	06/16/25 10:45		Eman	OK
2	Q2301-03DUP	WC-URBAN-FILL-CD	DUP	06/16/25 10:52		Eman	OK
3	Q2307-01	LINDEN-SAA	SAM	06/16/25 11:00		Eman	OK
4	Q2310-01	TP-7	SAM	06/16/25 11:07		Eman	OK
5	Q2310-04	TP-7	SAM	06/16/25 11:14		Eman	OK
6	Q2311-01	TP03-MH2MH3-WC	SAM	06/16/25 11:22		Eman	OK
7	Q2311-04	TP03-MH2MH3-WC	SAM	06/16/25 11:30		Eman	OK
8	Q2311-05	TP04-MH2MH3-WC	SAM	06/16/25 11:37		Eman	OK
9	Q2311-08	TP04-MH2MH3-WC	SAM	06/16/25 11:45		Eman	OK
10	Q2312-01	TP-1	SAM	06/16/25 11:52		Eman	OK
11	Q2312-04	TP-1	SAM	06/16/25 12:00		Eman	OK
12	Q2319-01	MH-B	SAM	06/16/25 12:07		Eman	OK
13	Q2319-04	MH-B	SAM	06/16/25 12:15		Eman	OK
14	Q2320-01	WC	SAM	06/16/25 12:22		Eman	OK
15	Q2325-01	TP-8	SAM	06/16/25 12:30		Eman	OK
16	Q2325-04	TP-8	SAM	06/16/25 12:37		Eman	OK

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Instrument ID: KONELAB

Daily Analysis Runlog For Sequence/QCBatch ID # LB136162

Review By	Iwona	Review On	6/17/2025 10:27:14 AM
Supervise By	Sohil	Supervise On	6/17/2025 10:35:41 AM
SubDirectory	LB136162	Test	Reactive Cyanide

STD. NAME	STD REF.#
ICAL Standard	WP113536,WP113537,WP113538,WP113540,WP113541,WP113542,WP113543
ICV Standard	WP113544
CCV Standard	WP113538
ICSA Standard	N/A
CRI Standard	N/A
LCS Standard	N/A
Chk Standard	WP112643,WP112900,WP113548

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	0.0PPBCN	0.0PPBCN	CAL1	06/16/25 11:42		Iwona	OK
2	5.0PPBCN	5.0PPBCN	CAL2	06/16/25 11:42		Iwona	OK
3	10PPBCN	10PPBCN	CAL3	06/16/25 11:42		Iwona	OK
4	50PPBCN	50PPBCN	CAL4	06/16/25 11:42		Iwona	OK
5	100PPBCN	100PPBCN	CAL5	06/16/25 11:42		Iwona	OK
6	250PPBCN	250PPBCN	CAL6	06/16/25 11:42		Iwona	OK
7	500PPBCN	500PPBCN	CAL7	06/16/25 11:42		Iwona	OK
8	ICV1	ICV1	ICV	06/16/25 12:14		Iwona	OK
9	ICB1	ICB1	ICB	06/16/25 12:14		Iwona	OK
10	CCV1	CCV1	CCV	06/16/25 12:14		Iwona	OK
11	CCB1	CCB1	CCB	06/16/25 12:14		Iwona	OK
12	PB168487BL	PB168487BL	MB	06/16/25 12:14		Iwona	OK
13	Q2301-03	WC-URBAN-FILL-C	SAM	06/16/25 12:14		Iwona	OK
14	Q2301-03DUP	WC-URBAN-FILL-CD	DUP	06/16/25 12:21		Iwona	OK
15	Q2310-04	TP-7	SAM	06/16/25 12:21		Iwona	OK
16	Q2311-04	TP03-MH2MH3-WC	SAM	06/16/25 12:21		Iwona	OK
17	Q2311-08	TP04-MH2MH3-WC	SAM	06/16/25 12:21		Iwona	OK
18	Q2312-04	TP-1	SAM	06/16/25 12:22		Iwona	OK

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Instrument ID: KONELAB

Daily Analysis Runlog For Sequence/QCBatch ID # LB136162

Review By	Iwona	Review On	6/17/2025 10:27:14 AM
Supervise By	Sohil	Supervise On	6/17/2025 10:35:41 AM
SubDirectory	LB136162	Test	Reactive Cyanide

STD. NAME	STD REF.#
ICAL Standard	WP113536,WP113537,WP113538,WP113540,WP113541,WP113542,WP113543
ICV Standard	WP113544
CCV Standard	WP113538
ICSA Standard	N/A
CRI Standard	N/A
LCS Standard	N/A
Chk Standard	WP112643,WP112900,WP113548

19	Q2319-04	MH-B	SAM	06/16/25 12:22		Iwona	OK
20	Q2320-01	WC	SAM	06/16/25 12:22		Iwona	OK
21	Q2325-04	TP-8	SAM	06/16/25 12:22		Iwona	OK
22	CCV2	CCV2	CCV	06/16/25 12:22		Iwona	OK
23	CCB2	CCB2	CCB	06/16/25 12:24		Iwona	OK

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Instrument ID: KONELAB

Daily Analysis Runlog For Sequence/QCBatch ID # LB136163

Review By	Iwona	Review On	6/17/2025 2:11:06 PM
Supervise By	Sohil	Supervise On	6/17/2025 4:57:58 PM
SubDirectory	LB136163	Test	ASTM Ammonia

STD. NAME	STD REF.#
ICAL Standard	WP113545
ICV Standard	WP113547
CCV Standard	WP113546
ICSA Standard	N/A
CRI Standard	N/A
LCS Standard	WP113449
Chk Standard	WP113429,WP111745,WP111385,WP111660

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	0.0000PPM	0.0000PPM	CAL1	06/16/25 13:28		Iwona	OK
2	0.012PPM	0.012PPM	CAL2	06/16/25 13:28		Iwona	OK
3	0.024PPM	0.024PPM	CAL3	06/16/25 13:28		Iwona	OK
4	0.060PPM	0.060PPM	CAL4	06/16/25 13:28		Iwona	OK
5	0.12PPM	0.12PPM	CAL5	06/16/25 13:28		Iwona	OK
6	0.30PPM	0.30PPM	CAL6	06/16/25 13:28		Iwona	OK
7	0.60PPM	0.60PPM	CAL7	06/16/25 13:28		Iwona	OK
8	ICV1	ICV1	ICV	06/16/25 13:59		Iwona	OK
9	ICB1	ICB1	ICB	06/16/25 13:59		Iwona	OK
10	CCV1	CCV1	CCV	06/16/25 13:59		Iwona	OK
11	CCB1	CCB1	CCB	06/16/25 13:59		Iwona	OK
12	PB168481BL	PB168481BL	MB	06/16/25 13:59		Iwona	OK
13	PB168481BS	PB168481BS	LCS	06/16/25 13:59		Iwona	OK
14	Q2301-04	WC-URBAN-FILL-C	SAM	06/16/25 14:07		Iwona	OK
15	Q2301-04DUP	WC-URBAN-FILL-CD	DUP	06/16/25 14:07		Iwona	OK
16	Q2301-04MS	WC-URBAN-FILL-CM	MS	06/16/25 14:07		Iwona	OK
17	Q2301-04MSD	WC-URBAN-FILL-CM	MSD	06/16/25 14:07		Iwona	OK
18	CCV2	CCV2	CCV	06/16/25 14:07		Iwona	OK

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Instrument ID: KONELAB

Daily Analysis Runlog For Sequence/QCBatch ID # LB136163

Review By	Iwona	Review On	6/17/2025 2:11:06 PM
Supervise By	Sohil	Supervise On	6/17/2025 4:57:58 PM
SubDirectory	LB136163	Test	ASTM Ammonia

STD. NAME	STD REF.#
ICAL Standard	WP113545
ICV Standard	WP113547
CCV Standard	WP113546
ICSA Standard	N/A
CRI Standard	N/A
LCS Standard	WP113449
Chk Standard	WP113429,WP111745,WP111385,WP111660

19	CCB2	CCB2	CCB	06/16/25 14:07		Iwona	OK

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Instrument ID: TITRAMETRIC

Daily Analysis Runlog For Sequence/QCBatch ID # LB136168

Review By	Iwona	Review On	6/17/2025 10:02:45 AM
Supervise By	jignesh	Supervise On	6/17/2025 10:07:25 AM
SubDirectory	LB136168	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,W3213,W3149

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	PB168488BL	PB168488BL	MB	06/16/25 13:15		Iwona	OK
2	Q2301-03	WC-URBAN-FILL-C	SAM	06/16/25 13:18		Iwona	OK
3	Q2301-03DUP	WC-URBAN-FILL-CD	DUP	06/16/25 13:21		Iwona	OK
4	Q2310-04	TP-7	SAM	06/16/25 13:25		Iwona	OK
5	Q2311-04	TP03-MH2MH3-WC	SAM	06/16/25 13:28		Iwona	OK
6	Q2311-08	TP04-MH2MH3-WC	SAM	06/16/25 13:31		Iwona	OK
7	Q2312-04	TP-1	SAM	06/16/25 13:34		Iwona	OK
8	Q2319-04	MH-B	SAM	06/16/25 13:37		Iwona	OK
9	Q2320-01	WC	SAM	06/16/25 13:40		Iwona	OK
10	Q2325-04	TP-8	SAM	06/16/25 13:44		Iwona	OK

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Instrument ID: SPECTROPHOTOMETER-2

Daily Analysis Runlog For Sequence/QCBatch ID # LB136170

Review By	Iwona	Review On	6/17/2025 10:49:21 AM
Supervise By	jignesh	Supervise On	6/17/2025 10:50:00 AM
SubDirectory	LB136170	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	WP113238,WP113237,WP113235,WP113234,WP113233,WP113240,WP113236,WP113445,WP113446,WP113448,\

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	CAL1	CAL1	CAL	05/28/25 13:10			OK
2	CAL2	CAL2	CAL	05/28/25 13:10			OK
3	CAL3	CAL3	CAL	05/28/25 13:11			OK
4	CAL4	CAL4	CAL	05/28/25 13:11			OK
5	CAL5	CAL5	CAL	05/28/25 13:12			OK
6	CAL6	CAL6	CAL	05/28/25 13:12			OK
7	ICV	ICV	ICV	05/28/25 13:13			OK
8	ICB	ICB	ICB	05/28/25 13:13			OK
9	CCV1	CCV1	CCV	06/16/25 13:30			OK
10	CCB1	CCB1	CCB	06/16/25 13:30			OK
11	RL Check	RL Check	RL	06/16/25 13:31			OK
12	LB136170BL	LB136170BL	MB	06/16/25 13:31			OK
13	LB136170BS	LB136170BS	LCS	06/16/25 13:32			OK
14	Q2301-04	WC-URBAN-FILL-C	SAM	06/16/25 13:32			OK
15	Q2301-04DUP	WC-URBAN-FILL-CD	DUP	06/16/25 13:33			OK
16	Q2301-04MS	WC-URBAN-FILL-CM	MS	06/16/25 13:33			OK
17	Q2301-04MSD	WC-URBAN-FILL-CM	MSD	06/16/25 13:34			OK
18	CCV2	CCV2	CCV	06/16/25 13:34			OK

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Instrument ID: SPECTROPHOTOMETER-2

Daily Analysis Runlog For Sequence/QCBatch ID # LB136170

Review By	Iwona	Review On	6/17/2025 10:49:21 AM
Supervise By	jignesh	Supervise On	6/17/2025 10:50:00 AM
SubDirectory	LB136170	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	WP113238,WP113237,WP113235,WP113234,WP113233,WP113240,WP113236,WP113445,WP113446,WP113448,V

19	CCB2	CCB2	CCB	06/16/25 13:35			OK

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Instrument ID: WC SC-3

Daily Analysis Runlog For Sequence/QCBatch ID # LB136173

Review By	jignesh	Review On	6/17/2025 12:43:50 PM
Supervise By	Iwona	Supervise On	6/17/2025 1:00:32 PM
SubDirectory	LB136173	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	LB136173BL	LB136173BL	MB	06/13/25 11:00		jignesh	OK
2	Q2301-04	WC-URBAN-FILL-C	SAM	06/13/25 11:00		jignesh	OK
3	Q2301-04DUP	WC-URBAN-FILL-CD	DUP	06/13/25 11:00		jignesh	OK

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Prep Standard - Chemical Standard Summary

Order ID : Q2301

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 : PB168481,PB168487,PB168488,

Sequence ID/Qc Batch ID: LB136136,LB136137,LB136142,LB136150,LB136151,LB136155,LB136160,LB136161,LB136162,LB13

Standard ID :
EP2620,WP111294,WP111317,WP111318,WP111325,WP111385,WP111660,WP111745,WP112611,WP112612,WP112643,WP112782,WP112783,WP112785,WP112786,WP112828,WP112900,WP112995,WP113086,WP113231,WP113232,WP113233,WP113234,WP113235,WP113236,WP113237,WP113238,WP113240,WP113429,WP113443,WP113444,WP113445,WP113446,WP113448,WP113449,WP113450,WP113535,WP113536,WP113537,WP113538,WP113540,WP113541,WP113542,WP113543,WP113544,WP113545,WP113546,WP113547,WP113548,

Chemical ID :
AS PER
PB168427,E2865,E3551,E3917,M6041,M6069,M6151,W2666,W2668,W2700,W2725,W2784,W2817,W2858,W2871,W2926,W3009,W3019,W3071,W3082,W3093,W3105,W3112,W3113,W3129,W3132,W3133,W3139,W3149,W3155,W3161,W3169,W3173,W3174,W3178,W3191,W3195,W3196,W3200,W3203,W3204,W3213,W3214,WO 112784,

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Extractions STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3923	Baked Sodium Sulfate	EP2620	05/30/2025	07/01/2025	RUPESHKUMAR SHAH	Extraction_SCALE_2 (EX-SC-2)	None	Riteshkumar Patel 05/30/2025

FROM 4000.00000gram of E3551 = Final Quantity: 4000.000 gram

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
11	Sodium hydroxide absorbing solution 0.25 N	WP111294	01/07/2025	07/07/2025	Niha Farheen Shaik	WETCHEM_SCALE_5 (WC SC-5)	None	Iwona Zarych 01/07/2025

FROM 21.00000L of W3112 + 210.00000gram of W3113 = Final Quantity: 21.000 L

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Wet Chemistry STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1796	NaOH, 0.1N	WP111317	01/09/2025	07/09/2025	Rubina Mughal	WETCHEM_SCALE_7 (WCSC-6)	None	Iwona Zarych 01/09/2025

FROM 4.00000gram of W3113 + 996.00000ml of W3112 = Final Quantity: 1000.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1471	NaOH Solution, 6N	WP111318	01/09/2025	07/09/2025	Rubina Mughal	WETCHEM_SCALE_7 (WCSC-6)	None	Iwona Zarych 01/09/2025

FROM 240.00000gram of W3113 + 760.00000ml of W3112 = Final Quantity: 1000.000 ml

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Wet Chemistry STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1494	BORATE BUFFER	WP111325	01/09/2025	07/09/2025	Rubina Mughal	WETCHEM_SCALE_5 (WCSC-5)	None	Iwona Zarych 01/09/2025

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

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
290	Phenol reagent for Ammonia	WP111385	01/13/2025	07/13/2025	Rubina Mughal	WETCHEM_SCALE_8 (WCSC-7)	None	Iwona Zarych 01/13/2025

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

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Wet Chemistry STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
635	EDTA BUFFER FOR AMMONIA	WP111660	01/28/2025	07/28/2025	Rubina Mughal	WETCHEM_SCALE_8 (WCSC-7)	None	Iwona Zarych 01/28/2025

FROM 5.50000gram of W3113 + 50.00000gram of W3132 + 950.00000ml of W3112 = Final Quantity: 1000.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
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

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Wet Chemistry STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
153	Ammonia Stock Std. (1000 ppm)	WP112611	04/07/2025	10/07/2025	Rubina Mughal	WETCHEM_SCALE_8 (WCSC-7)	None	Iwona Zarych 04/07/2025

FROM 3.81900gram of W3196 + 996.18100ml of W3112 = Final Quantity: 1000.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1895	Ammonia Stock Std, 1000PPM-SS	WP112612	04/07/2025	10/07/2025	Rubina Mughal	WETCHEM_SCALE_8 (WCSC-7)	None	Iwona Zarych 04/07/2025

FROM 3.81900gram of W3195 + 996.18100ml of W3112 = Final Quantity: 1000.000 ml

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Wet Chemistry STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
539	CN BUFFER	WP112643	04/09/2025	10/09/2025	Niha Farheen Shaik	WETCHEM_SCALE_5 (WCSC-5)	None	Iwona Zarych 04/09/2025

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

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
229	1:1 HCL	WP112782	04/22/2025	08/18/2025	Jignesh Parikh	None	None	Iwona Zarych 04/22/2025

FROM 500.00000ml of M6151 + 500.00000ml of W3112 = Final Quantity: 1.000 L

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Wet Chemistry STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
2470	1664A SPIKING SOLN	WP112783	04/22/2025	10/03/2025	Jignesh Parikh	WETCHEM_SCALE_8 (WCSC-7)	None	Iwona Zarych 04/22/2025

FROM 1000.00000ml of E3917 + 4.00000gram of W2817 + 4.00000gram of W2871 = Final Quantity: 1000.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3931	Spiking std for 9071B	WP112785	04/22/2025	10/03/2025	Jignesh Parikh	WETCHEM_SCALE_8 (WCSC-7)	None	Iwona Zarych 04/22/2025

FROM 1.00000gram of W2817 + 1.00000gram of W2871 + 1000.00000ml of E3917 = Final Quantity: 1000.000 ml

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Wet Chemistry STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3873	Spiking solution for 9071B - SS	WP112786	04/22/2025	10/03/2025	Jignesh Parikh	WETCHEM_SCALE_8 (WCSC-7)	None	Iwona Zarych 04/22/2025

FROM 1.00000gram of W3009 + 1.00000gram of W3082 + 1000.00000L of E3917 = Final Quantity: 1000.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1597	0.04 N H2SO4	WP112828	04/25/2025	10/25/2025	Rubina Mughal	None	WETCHEM_PIPETTE_3 (WC)	Iwona Zarych 04/25/2025

FROM 1.00000ml of M6041 + 999.00000ml of W3112 = Final Quantity: 1000.000 ml

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Wet Chemistry STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
607	PYRIDINE-BARBITURIC ACID	WP112900	05/01/2025	08/18/2025	Rubina Mughal	WETCHEM_SCALE_8 (WCSC-7)	Glass Pipette-A	Iwona Zarych 05/01/2025

FROM 145.00000ml of W3112 + 15.00000gram of W3203 + 15.00000ml of M6151 + 75.00000ml of W3019 = Final Quantity: 250.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3371	Cyanide LCS Spike Solution, 5PPM	WP112995	05/07/2025	07/07/2025	Iwona Zarych	None	WETCHEM_PIPETTE_3 (WC)	Jignesh Parikh 05/07/2025

FROM 1.00000ml of W3173 + 199.00000ml of WP111294 = Final Quantity: 200.000 ml

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Wet Chemistry STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
160	0.5M ZINC ACETATE	WP113086	05/15/2025	08/18/2025	Rubina Mughal	WETCHEM_SCALE_8 (WCSC-7)	None	Iwona Zarych 05/15/2025

FROM 0.88900L of W3112 + 1.00000ml of M6151 + 110.00000gram of W2926 = Final Quantity: 1000.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
2456	COD Stock std, 1000ppm	WP113231	05/28/2025	06/04/2025	Iwona Zarych	WETCHEM_SCALE_5 (WCSC-5)	None	Jignesh Parikh 05/28/2025

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

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Wet Chemistry STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
2457	COD Stock std-SS, 1000ppm	WP113232	05/28/2025	06/04/2025	Iwona Zarych	WETCHEM_SCALE_5 (WCSC-5)	None	Jignesh Parikh 05/28/2025

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

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
139	COD calibration std. 0 ppm	WP113233	05/28/2025	06/04/2025	Iwona Zarych	None	None	Jignesh Parikh 05/28/2025

FROM 10.00000ml of W3112 = Final Quantity: 10.000 ml

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Wet Chemistry STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
138	COD calibration std. 10 ppm	WP113234	05/28/2025	06/04/2025	Iwona Zarych	None	WETCHEM_PIPETTE_3 (WC)	Jignesh Parikh 05/28/2025

FROM 9.90000ml of W3112 + 0.10000ml of WP113231 = Final Quantity: 10.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
137	COD calibration std. 50 ppm	WP113235	05/28/2025	06/04/2025	Iwona Zarych	None	WETCHEM_PIPETTE_3 (WC)	Jignesh Parikh 05/28/2025

FROM 9.50000ml of W3112 + 0.50000ml of WP113231 = Final Quantity: 10.000 ml

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Wet Chemistry STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
4161	COD calibration std. 75 ppm	WP113236	05/28/2025	06/04/2025	Iwona Zarych	None	WETCHEM_PIPETTE_3 (WC)	Jignesh Parikh 05/28/2025

FROM 9.25000ml of W3112 + 0.75000ml of WP113231 = Final Quantity: 10.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
136	COD calibration std. 100 ppm	WP113237	05/28/2025	06/04/2025	Iwona Zarych	None	WETCHEM_PIPETTE_3 (WC)	Jignesh Parikh 05/28/2025

FROM 9.00000ml of W3112 + 1.00000ml of WP113231 = Final Quantity: 10.000 ml

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Wet Chemistry STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
135	COD calibration std. 150 ppm	WP113238	05/28/2025	06/04/2025	Iwona Zarych	None	WETCHEM_PIPETTE_3 (WC)	Jignesh Parikh 05/28/2025

FROM 8.50000ml of W3112 + 1.50000ml of WP113231 = Final Quantity: 10.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
2459	COD ICV-LCS std, 50ppm	WP113240	05/28/2025	06/04/2025	Iwona Zarych	None	WETCHEM_PIPETTE_3 (WC)	Jignesh Parikh 05/28/2025

FROM 9.50000ml of W3112 + 0.50000ml of WP113232 = Final Quantity: 10.000 ml

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Wet Chemistry STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
740	sodium nitroferricyanide for ammonia	WP113429	06/06/2025	07/06/2025	Iwona Zarych	WETCHEM_SCALE_5 (WCSC-5)	None	Jignesh Parikh 06/06/2025

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

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
2456	COD Stock std, 1000ppm	WP113443	06/09/2025	06/16/2025	Iwona Zarych	WETCHEM_SCALE_5 (WCSC-5)	None	Jignesh Parikh 06/11/2025

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

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Wet Chemistry STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
2457	COD Stock std-SS, 1000ppm	WP113444	06/09/2025	06/16/2025	Iwona Zarych	WETCHEM_SCALE_5 (WCSC-5)	None	Jignesh Parikh 06/11/2025

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

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
2458	COD CCV std, 50ppm	WP113445	06/09/2025	06/16/2025	Iwona Zarych	None	WETCHEM_PIPETTE_3 (WC)	Jignesh Parikh 06/11/2025

FROM 9.50000ml of W3112 + 0.50000ml of WP113443 = Final Quantity: 10.000 ml

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Wet Chemistry STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
2459	COD ICV-LCS std, 50ppm	WP113446	06/09/2025	06/16/2025	Iwona Zarych	None	WETCHEM_PIPETTE_3 (WC)	Jignesh Parikh 06/11/2025

FROM 9.50000ml of W3112 + 0.50000ml of WP113444 = Final Quantity: 10.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
4162	RL CHECK	WP113448	06/09/2025	06/16/2025	Iwona Zarych	None	WETCHEM_PIPETTE_3 (WC)	Jignesh Parikh 06/11/2025

FROM 9.90000ml of W3112 + 0.10000ml of WP113443 = Final Quantity: 10.000 ml

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Wet Chemistry STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1639	Ammonia Intermediate Std-Second source, 50PPM	WP113449	06/09/2025	07/09/2025	Rubina Mughal	None	WETCHEM_PIPETTE_3 (WC)	Iwona Zarych 06/10/2025

FROM 95.00000ml of W3112 + 5.00000ml of WP112612 = Final Quantity: 100.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1322	Ammonia Intermediate Std, 50PPM	WP113450	06/09/2025	07/09/2025	Rubina Mughal	None	WETCHEM_PIPETTE_3 (WC)	Iwona Zarych 06/10/2025

FROM 95.00000ml of W3112 + 5.00000ml of WP112611 = Final Quantity: 100.000 ml

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Wet Chemistry STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3456	Cyanide Intermediate Working Std, 5PPM	WP113535	06/16/2025	06/17/2025	Iwona Zarych	None	WETCHEM_PIPETTE_3 (WC)	Jignesh Parikh 06/17/2025

FROM 0.25000ml of W3214 + 49.75000ml of WP111294 = Final Quantity: 50.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
167	0 ppb CN calibration std	WP113536	06/16/2025	06/17/2025	Iwona Zarych	None	WETCHEM_PIPETTE_3 (WC)	Jignesh Parikh 06/17/2025

FROM 50.00000ml of WP111294 = Final Quantity: 50.000 ml

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Wet Chemistry STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
4	Calibation standard 500 ppb	WP113537	06/16/2025	06/17/2025	Iwona Zarych	None	WETCHEM_PIPETTE_3 (WC)	Jignesh Parikh 06/17/2025

FROM 45.00000ml of WP111294 + 5.00000ml of WP113535 = Final Quantity: 50.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3761	Calibration-CCV CN Standard 250 ppb	WP113538	06/16/2025	06/17/2025	Iwona Zarych	None	WETCHEM_PIPETTE_3 (WC)	Jignesh Parikh 06/17/2025

FROM 2.50000ml of WP113535 + 47.50000ml of WP111294 = Final Quantity: 50.000 ml

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Wet Chemistry STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
6	Calibration Standard 100 ppb	WP113540	06/16/2025	06/17/2025	Iwona Zarych	None	WETCHEM_PIPETTE_3 (WC)	Jignesh Parikh 06/17/2025

FROM 1.00000ml of WP113535 + 49.00000ml of WP111294 = Final Quantity: 50.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
7	Calibration Standard 50 ppb	WP113541	06/16/2025	06/17/2025	Iwona Zarych	None	WETCHEM_PIPETTE_3 (WC)	Jignesh Parikh 06/17/2025

FROM 0.50000ml of WP113535 + 49.50000ml of WP111294 = Final Quantity: 50.000 ml

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Wet Chemistry STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
8	Calibration Standard 10 ppb	WP113542	06/16/2025	06/17/2025	Iwona Zarych	None	WETCHEM_PIPETTE_3 (WC)	Jignesh Parikh 06/17/2025

FROM 1.00000ml of WP113537 + 49.00000ml of WP111294 = Final Quantity: 50.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
9	Calibration Standard 5 ppb	WP113543	06/16/2025	06/17/2025	Iwona Zarych	None	WETCHEM_PIPETTE_3 (WC)	Jignesh Parikh 06/17/2025

FROM 0.50000ml of WP113537 + 49.50000ml of WP111294 = Final Quantity: 50.000 ml

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Wet Chemistry STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
2168	RCN ICV STD, 100 PPB	WP113544	06/16/2025	06/17/2025	Iwona Zarych	None	WETCHEM_PIPETTE_3 (WC)	Jignesh Parikh 06/17/2025

FROM 1.00000ml of WP112995 + 49.00000ml of WP111294 = Final Quantity: 50.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
275	Ammonia Calibration Std. (2 ppm)	WP113545	06/16/2025	06/17/2025	Iwona Zarych	None	WETCHEM_PIPETTE_3 (WC)	Jignesh Parikh 06/17/2025

FROM 48.00000ml of W3112 + 2.00000ml of WP113450 = Final Quantity: 50.000 ml

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Wet Chemistry STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
285	Ammonia CCV Std. (1 ppm)	WP113546	06/16/2025	06/17/2025	Iwona Zarych	None	WETCHEM_PIPETTE_3 (WC)	Jignesh Parikh 06/17/2025

FROM 49.00000ml of W3112 + 1.00000ml of WP113450 = Final Quantity: 50.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
286	Ammonia ICV Std. (1 ppm)	WP113547	06/16/2025	06/17/2025	Iwona Zarych	None	WETCHEM_PIPETTE_3 (WC)	Jignesh Parikh 06/17/2025

FROM 49.00000ml of W3112 + 1.00000ml of WP113449 = Final Quantity: 50.000 ml

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Wet Chemistry STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1582	Chloramine T solution, 0.014M	WP113548	06/16/2025	06/17/2025	Iwona Zarych	WETCHEM_SCALE_5 (WCSC-5)	None	Jignesh Parikh 06/17/2025

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

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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	12/04/2025	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)	24H2762008	10/03/2025	04/03/2025 / Rajesh	03/31/2025 / Rajesh	E3917

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	08/16/2024 / mohan	08/16/2024 / mohan	M6041

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	140440 / TEST PAPERS,PH,0-2.5,.2SENSI, 100PK	80A0441	02/29/2028	09/03/2024 / jignesh	08/19/2024 / Jaswal	M6069

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9530-33 / Hydrochloric Acid, Instra-Analyzed (cs/6x2.5L)	22G2862015	08/18/2025	02/18/2025 / Sagar	01/15/2025 / Sagar	M6151

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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, CRYS, ACS, 2.5 KG	0000225799	12/03/2025	04/05/2021 / Alexander	02/10/2020 / apatel	W2668

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	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 / Iwona	06/22/2020 / apatel	W2725

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

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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.	J4296-1 / ZINC ACETATE,DIHYD,CRYS,ACS,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

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

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CHEMICAL RECEIPT LOG BOOK

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 / Iwona	02/26/2024 / Iwona	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,4LITRE	4403S13	09/30/2025	04/22/2024 / Iwona	04/22/2024 / Iwona	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 / Iwona	07/03/2024 / Iwona	W3112

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

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Environmental Express LTD	B1010 / COD Digestion Vials Low Level 0-150Mg/L	13821	10/31/2027	06/16/2025 / Iwona	07/25/2024 / Iwona	W3129

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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	PC05050-1 / EDTA, disodium salt, dihydrate 1 lb	2ND0156	07/10/2026	07/26/2024 / 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.	140476 / Test Paper,PH Short Range 9.0/10.0	L23	08/22/2029	08/22/2024 / Iwona	08/22/2024 / Iwona	W3133

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

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	AL70850-8 / Starch Solution, 4L	4408P62	08/31/2026	10/16/2024 / Iwona	10/16/2024 / Iwona	W3149

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	140730 / TEST PAPER,POT.IOD-STRCH,PK100,CS12	14-860	12/02/2029	12/02/2024 / Iwona	12/02/2024 / Iwona	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 / Iwona	12/09/2024 / Iwona	W3161

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

CHEMICAL RECEIPT LOG BOOK

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

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	LC135457 / Cyanide Standard, 1000 PPM, Second Source	45010168	07/17/2025	01/24/2025 / Iwona	01/24/2025 / Iwona	W3173

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

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 / Iwona	03/19/2025 / Iwona	W3195

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

CHEMICAL RECEIPT LOG BOOK

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

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

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	WXBF3271V	05/16/2029	04/21/2025 / Iwona	04/21/2025 / Iwona	W3203

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)	25c0362005	04/30/2026	04/22/2025 / jignesh	04/18/2025 / jignesh	W3204

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	MK25A21527	01/20/2029	05/21/2025 / Iwona	05/21/2025 / Iwona	W3213

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	1505H73	11/30/2025	05/21/2025 / Iwona	05/21/2025 / Iwona	W3214

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 ($CH_3(CH_2)_{14}CH_3$) (by GC)	>= 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

ThermoFisher SCIENTIFIC

Certificate of Analysis

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	40.5ºC min	40.5 ºC
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

ThermoFisher SCIENTIFIC

Certificate of Analysis

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

ThermoFisher SCIENTIFIC

W2817
Rec. 04/02/2021

Product Specification

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:	QIQXTHQIDYTFRH-UHFFFAOYSA-N
SMILES:	CCCCCCCCCCCCCCCCCC(O)=O
Synonym:	stearic acid acide stearique hydrofol acid 1855 hydrofol acid 1655 industrene 5016 stearic acid, ion(1-) (8CI) glycon TP glycon DP acidum stearinicul 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.

RICCA CHEMICAL COMPANY®

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

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

Sigma-Aldrich

W3009

rec. 2/27/2023 12

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

Certificate of Analysis

Product Name:
Hexadecane - ReagentPlus®, 99%

Product Number:	**H6703**
Batch Number:	**SHBP8192**
Brand:	SIAL
CAS Number:	544-76-3
MDL Number:	MFCD00008998
Formula:	C16H34
Formula Weight:	226.44 g/mol
Quality Release Date:	04 AUG 2022

$CH_3(CH_2)_{14}CH_3$

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.

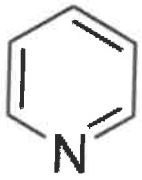
W3019
Rec 4/3/23

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

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

W2723, W2724, W2725, W2726 Received on 6/22/20 by AP

Certificate of Analysis

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

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

Heather Sinn,
_____
Quality Control Manager
This document has been produced electronically and is valid without a signature.

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

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 (Na2B4O7 • 10H2O)	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 (PO4)	0.001% max.	<0.001%
Sulfate (SO4)	0.005% max.	<0.005%

Joe Schoellkopff

Quality Control Manager

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

EMD Millipore is a division of Merck KGaA, Darmstadt, Germany

EMD Millipore Corporation
400 Summit Drive
Burlington, MA 01803
U.S.A.

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

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

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

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

Julian Burton

Julian Burton - Quality Control Manager – Fair Lawn

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

avantor™ | J.T.Baker®

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	<= 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

James T Ethier

Jamie Ethier
Vice President Global Quality

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

PRODUCTOS QUIMICOS MONTERREY, S.A. DE C.V.

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

CERTIFICATE OF ANALYSIS

PRODUCT :	SODIUM SULFATE CRYSTALS ANHYDROUS		
QUALITY :	ACS (CODE RMB3375)	FORMULA :	Na_2SO_4
SPECIFICATION NUMBER :	6399	RELEASE DATE:	ABR/21/2023
LOT NUMBER :	313201		

TEST	SPECIFICATIONS	LOT VALUES
Assay (Na_2SO_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 foreing matter	Passes test	Passes test
Retained on US Standard No. 10 sieve	Max. 1%	0.1 %
Retained on US Standard No. 60 sieve	Min. 94%	97.3 %
Through US Standard No. 60 sieve	Max. 5%	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.

RG-02-01, Ed. 3

Recd. by RB on 7/24/23 E3551

Acetone
BAKER RESI-ANALYZED® Reagent
For Organic Residue Analysis

avantor™ | J.T.Baker

Material No.: 9254-03
Batch No.: 24H2762008
Manufactured Date: 2024-04-18
Expiration Date:2027-04-18
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay ($(CH_3)_2CO$) (by GC, corrected forwater)	>= 99.4 %	100.0 %
Color (APHA)	<= 10	5
Residue after Evaporation	<= 1.0 ppm	0.0 ppm
Substances Reducing Permanganate	Passes Test	Passes Test
Titrable Acid (µeq/g)	<= 0.3	0.2
Titrable Base (µeq/g)	<= 0.6	<0.1
Water (H_2O)	<= 0.5 %	<0.1 %
FID-Sensitive Impurities (as 2-Octanol)Single Impurity Peak (ng/mL)	<= 5	1
ECD Sensitive Impurities (as HeptachlorEpoxide) Single Peak (pg/mL)	<= 10	1

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

Country of Origin: United States
Packaging Site: Phillipsburg Mfg Ctr & DC

Recd. by RP on 03/31/25

E3917

JCroak
Jamie Croak
Director Quality Operations, Bioscience Production

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

Avantor Performance Materials LLC

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

M 6041-46
MS

avantor™ | J.T.Baker®

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_2SO_4)	95.0 – 98.0 %	96.1 %
Appearance	Passes Test	Passes Test
ACS – Color (APHA)	≤ 10	5
ACS – Residue after Ignition	≤ 3 ppm	< 1 ppm
ACS – Substances Reducing Permanganate (as SO2)	≤ 2 ppm	< 2 ppm
Ammonium (NH_4)	≤ 1 ppm	1 ppm
Chloride (Cl)	≤ 0.1 ppm	< 0.1 ppm
Nitrate (NO_3)	≤ 0.2 ppm	< 0.1 ppm
Phosphate (PO_4)	≤ 0.5 ppm	< 0.1 ppm
Trace Impurities – Aluminum (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

avantor™ | J.T.Baker®

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

James T Ethier

Jamie Ethier
Vice President Global Quality

R: 8/19/24 M6069

MACHEREY-NAGEL

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.

MACHEREY-NAGEL GmbH & Co. KG
Valencienner Str. 11
52355 Düren · Germany
www.mn-net.com

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FR Tel.: +33 388 68 22 68 sales-fr@mn-net.com
US Tel.: +1 888 321 62 24 sales-us@mn-net.com

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

avantor™ | J.T.Baker®

M6151

R-> 1/15/25

Material No.: 9530-33
Batch No.: 22G2862015
Manufactured Date: 2022-06-15
Retest Date: 2027-06-14
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
ACS – Assay (as HCl) (by acid-base titrn)	36.5 – 38.0 %	37.9 %
ACS – Color (APHA)	≤ 10	5
ACS – Residue after Ignition	≤ 3 ppm	< 1 ppm
ACS – Specific Gravity at 60°/60°F	1.185 – 1.192	1.191
ACS – Bromide (Br)	≤ 0.005 %	< 0.005 %
ACS – Extractable Organic Substances	≤ 5 ppm	< 1 ppm
ACS – Free Chlorine (as Cl_2)	≤ 0.5 ppm	< 0.5 ppm
Phosphate (PO_4)	≤ 0.05 ppm	< 0.03 ppm
Sulfate (SO_4)	≤ 0.5 ppm	< 0.3 ppm
Sulfite (SO_3)	≤ 0.8 ppm	0.3 ppm
Ammonium (NH_4)	≤ 3 ppm	< 1 ppm
Trace Impurities – Arsenic (As)	≤ 0.010 ppm	< 0.003 ppm
Trace Impurities – Aluminum (Al)	≤ 10.0 ppb	1.3 ppb
Arsenic and Antimony (as As)	≤ 5.0 ppb	< 3.0 ppb
Trace Impurities – Barium (Ba)	≤ 1.0 ppb	0.2 ppb
Trace Impurities – Beryllium (Be)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities – Bismuth (Bi)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Boron (B)	≤ 20.0 ppb	< 5.0 ppb
Trace Impurities – Cadmium (Cd)	≤ 1.0 ppb	< 0.3 ppb
Trace Impurities – Calcium (Ca)	≤ 50.0 ppb	163.0 ppb
Trace Impurities – Chromium (Cr)	≤ 1.0 ppb	0.7 ppb
Trace Impurities – Cobalt (Co)	≤ 1.0 ppb	< 0.3 ppb
Trace Impurities – Copper (Cu)	≤ 1.0 ppb	< 0.1 ppb
Trace Impurities – Gallium (Ga)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities – Germanium (Ge)	≤ 3.0 ppb	< 2.0 ppb
Trace Impurities – Gold (Au)	≤ 4.0 ppb	0.6 ppb
Heavy Metals (as Pb)	≤ 100 ppb	< 50 ppb
Trace Impurities – Iron (Fe)	≤ 15 ppb	6 ppb

>>> Continued on page 2 >>>

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

avantor™ | J.T.Baker®

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

Test	Specification	Result
Trace Impurities - Lead (Pb)	≤ 1.0 ppb	< 0.5 ppb
Trace Impurities - Lithium (Li)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Magnesium (Mg)	≤ 10.0 ppb	2.9 ppb
Trace Impurities - Manganese (Mn)	≤ 1.0 ppb	< 0.4 ppb
Trace Impurities - Mercury (Hg)	≤ 0.5 ppb	0.1 ppb
Trace Impurities - Molybdenum (Mo)	≤ 10.0 ppb	< 3.0 ppb
Trace Impurities - Nickel (Ni)	≤ 4.0 ppb	< 0.3 ppb
Trace Impurities - Niobium (Nb)	≤ 1.0 ppb	0.8 ppb
Trace Impurities - Potassium (K)	≤ 9.0 ppb	< 2.0 ppb
Trace Impurities - Selenium (Se), For Information Only		< 1.0 ppb
Trace Impurities - Silicon (Si)	≤ 100.0 ppb	< 10.0 ppb
Trace Impurities - Silver (Ag)	≤ 1.0 ppb	0.5 ppb
Trace Impurities - Sodium (Na)	≤ 100.0 ppb	2.3 ppb
Trace Impurities - Strontium (Sr)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Tantalum (Ta)	≤ 1.0 ppb	1.6 ppb
Trace Impurities - Thallium (Tl)	≤ 5.0 ppb	< 2.0 ppb
Trace Impurities - Tin (Sn)	≤ 5.0 ppb	4.0 ppb
Trace Impurities - Titanium (Ti)	≤ 1.0 ppb	1.5 ppb
Trace Impurities - Vanadium (V)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Zinc (Zn)	≤ 5.0 ppb	0.8 ppb
Trace Impurities - Zirconium (Zr)	≤ 1.0 ppb	0.3 ppb

>>> Continued on page 3 >>>

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

avantor™ | J.T.Baker®

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

Test	Specification	Result

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

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

James T Ethier

Jamie Ethier
Vice President Global Quality

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

(sodium dihydrogen phosphate, monohydrate)

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

Certificate of Analysis

Meets ACS Reagent Chemical Requirements,

Test	Specification	Result
Assay ($NaH_2PO_4 \cdot H_2O$)	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

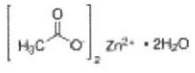
For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700
Avantor Performance Materials, LLC
100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone: 610.386.1700

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

W2926
open 7/5/22
received
on
7/5/22

Certificate of Analysis

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



Product Number:	**383058**
Batch Number:	**MKCQ9159**
Brand:	SIGALD
CAS Number:	5970-45-6
MDL Number:	MFCD00066961
Formula:	C4H6O4Zn · 2H2O
Formula Weight:	219.51 g/mol
Quality Release Date:	06 JAN 2022

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

Larry Coers, Director
Quality Control
Milwaukee, WI US

Certificate of analysis

W3082 Received on 2/26/2026 by IZ

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

Appearance	White flakes
Assay	98.7 %

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RICCA CHEMICAL COMPANY®

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Batesville, IN 47006
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W3093 0941.. 04/03/2024 LG

Certificate of Analysis

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

RICCA CHEMICAL COMPANY®

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Batesville, IN 47006
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W3105 Received on 4/22/24 by IZ

Certificate of Analysis

Sodium Thiosulfate, 0.0250 Normal (N/40)

Lot Number: 4403S13 **Product Number:** 7900

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

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

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

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

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

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:

Pellets

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

Storage: Room Temperature

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.

Certificate of Analysis

Sodium Hydroxide (Pellets)

Material: **0583**

Grade: **ACS GRADE**

Batch Number: **23B1556310**

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

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.

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

spectrum® CHEMICAL MFG CORP

Certificate Of Analysis

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[$n[(HOCOCH_2)_3N]$]		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.

ThermoFisher SCIENTIFIC

Certificate of Analysis

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**

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W3149 Received on 10/16/24 by IZ

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Batesville, IN 47006
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customerservice@riccachemical.com

Certificate of Analysis

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

Lot Number: 4408P62 **Product Number:** 8000

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

This product is Mercury-free.

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

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

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

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

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

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

Paul Brandon (08/28/2024)
Production Manager

RICCA CHEMICAL COMPANY®

W3161 Rec. on 12/09/24 by IZ

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

Certificate of Analysis

Buffer, Reference Standard, pH 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

Certificate of Analysis

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	HOOCC6H4COOK
Molecular Mass	204.22
Date of Manufacture	04/29/2023
Storage	Room Temperature

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

Internal ID #: 322

Signature

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

Additional Information

Analysis may have been rounded to significant digits in specification limits

Product meets analytical specifications of the grades listed.

LabChem
Part of TCP Analytical Group
Jackson's Pointe Commerce Park- Building 1000
1010 Jackson's Pointe Court, Zelienople, PA 16063

Certificate of Analysis

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

Product Code: **LC13545**

Manufacture Date: January 16, 2025

Lot Number: **45010168**

Expiration Date: July 17, 2025

Test	Specification	Result
Appearance (clarity)	clear solution	clear solution
Appearance (color)	colorless	colorless
Concentration (CN)	0.990 - 1.010mg/mL	1.000mg/mL
Concentration (CN)	990 - 1,010ppm	1,000ppm
Traceable to NIST SRM	Report	999b

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

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

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

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

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

Suffix	1	2	3/3S/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

2025011610:36:11bsturges-0-0

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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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Certificate of Analysis

W3178 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	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)

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W3191 W3191 Receive Date: 03/18/25 JP

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	*Not a certified value.

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

W3195 Received on 03/19/2025 by IZ

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	NH4Cl
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

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

Additional Information

Analysis may have been rounded to significant digits in specification limits

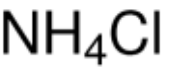
Product meets analytical specifications of the grades listed.

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

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 AgNO3	≥ 99.5 %	100.2 %
pH @ 25 Deg c (5% Solution)	4.5 - 5.5	4.9
Insoluble Matter 10%, H2O	≤ 0.005 %	0.001 %
Residue on ignition (Ash)	≤ 0.01 %	< 0.01 %
Calcium (Ca)	≤ 0.001 %	< 0.001 %
Magnesium (Mg)	≤ 5 ppm	1 ppm
Heavy Metals by ICP	≤ 5 ppm	< 1 ppm
Iron (Fe)	≤ 2 ppm	< 1 ppm
Phosphate (PO4)	≤ 2 ppm	< 2 ppm
Sulfate (SO4)	≤ 0.002 %	< 0.002 %
Meets ACS Requirements	Current ACS Specification	Conforms
Recommended Retest Period 3 Years	----------	----------

Larry Coers, Director

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

Certificate of Analysis

Product Number: **213330**
Batch Number: **MKCV1009**

Quality Control
Milwaukee, WI US

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Pocomoke City, MD 21851
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W3200 Received on 04/11/2025 by IZ

Certificate of Analysis

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

Lot Number: 2504F20 **Product Number:** 1615

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

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

°C	15	20	25	30	35	40
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 (from ACS)

Test	Specification	Result	
Appearance	Colorless liquid	Passed	*Not a certified value.

Test	Certified Value	Uncertainty	NIST SRM#
pH at 25°C (Method: SQCP027, SQCP033)	12.009	0.02	186-I-g, 186-II-g, 191d

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

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

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

Jose Pena (04/08/2025)
Operations Manager

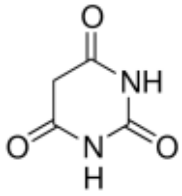
This product was tested in an ISO 17025 Accredited Laboratory

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

Certificate of Analysis

Product Name:
Barbituric acid - ReagentPlus® , 99%

Product Number:	**185698**
Batch Number:	**WXBF3271V**
Brand:	SIAL
CAS Number:	67-52-7
Formula:	C4H4N2O3
Formula Weight:	128,09 g/mol
Quality Release Date:	16 MAY 2024



Test	Specification	Result
Appearance (Colour)	White to Off-White	White
Appearance (Form)	Powder	Powder
Infrared spectrum	Conforms to Structure	Conforms
Purity (Titration by NaOH)	98.5 - 101.5 %	100.4 %
GC (area %) VPCT	≥ 98 %	100 %

Kang Chen
Quality Manager
Wuxi , China CN

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

avantor™ | J.T.Baker

LW3204
OPEN: 04/22/2025
38

Material No.: 9262-03
Batch No.: 25C0362005
Manufactured Date: 2025-01-29
Expiration Date:2026-04-30
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
FID-Sensitive Impurities (as 2-Octanol)Single Impurity Peak (ng/mL)	<= 5	1
ECD Sensitive Impurities (as HeptachlorEpoxide) Single Peak (pg/mL)	<= 10	6
ECD-Sensitive Impurities (as EthyleneDibromide) - Single Impurity Peak (ng/mL)	<= 5	5
Assay (Total Saturated C_6 Isomers) (byGC, corrected for water)	>= 99.5 %	100.0 %
Assay (as n-Hexane) (by GC, correctedfor water)	>= 95 %	100 %
Color (APHA)	<= 10	10
Residue after Evaporation	<= 1.0 ppm	0.1 ppm
Substances Darkened by H_2SO_4	Passes Test	Passes Test
Water (by KF, coulometric)	<= 0.05 %	<0.01 %

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

Country of Origin: United States
Packaging Site: Phillipsburg Mfg Ctr & DC

J Croak

Jamie Croak
Director Quality Operations, Bioscience Production

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

Avantor Performance Materials LLC

N3213 Received on 5/21/25 by 12

Certificate of Analysis

Material	BDHVBDH7206-1
Material Description	IODINE SOLUTION 0.025N
Lot	25A2461008
Expires end of	2029-Jan-20
Molecular mass	0
Last Quality Control	2025-Jan-24
Date of manufacture	2025-Jan-21
Made in	United States
Manufacturer Source Batch	MK25A21527

Additional infomation

Characteristics	Specifications	Measured values
Prepared to formulation on file	Confirmed	Confirmed
Appearance	Passes Test	Passes Test
Normality, N	0.0200 - 0.0300	0.0268

Signature

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

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

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

RICCA CHEMICAL COMPANY®

W3214 Received on 5/21/25 by IZ

448 West Fork Dr
Arlington, TX 76012
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Certificate of Analysis

Cyanide Standard, 1000 ppm CN^-

Lot Number: 1505H73 **Product Number:** 2543

Manufacture Date: MAY 08, 2025
Expiration Date: NOV 2025

This standard is prepared using accurate volumetric techniques from material that has been assayed against Silver Nitrate solution certifiec 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 (from ACS)

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)

Ernest Mahan (05/08/2025)
Plant Manager

PERCENT SOLID

Supervisor: Iwona
Analyst: jignesh
Date: 6/13/2025

OVENTEMP IN Celsius(°C): 108
Time IN: 17:15
In Date: 06/12/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 103
Time OUT: 08:22
Out Date: 06/13/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLID- OVEN

QC: LB136126

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
Q2287-01	CONCRETE-SLAB	1	1.00	1.00	2.00	2.00	100.0	CONCRETE sample
Q2296-01	WC-1	2	1.18	10.56	11.74	9.74	81.1	
Q2296-02	WC-1-EPH	3	1.18	10.23	11.41	9.55	81.8	
Q2296-03	WC-1-VOC	4	1.19	10.57	11.76	9.63	79.8	
Q2296-05	WC-2	5	1.19	10.58	11.77	10.52	88.2	
Q2296-06	WC-2-EPH	6	1.19	10.30	11.49	10.5	90.4	
Q2296-07	WC-2-VOC	7	1.19	10.21	11.4	10.62	92.4	
Q2296-09	WC-3	8	1.15	10.78	11.93	10.33	85.2	
Q2296-10	WC-3-EPH	9	1.19	10.60	11.79	10.1	84.1	
Q2296-11	WC-3-VOC	10	1.18	10.81	11.99	10.36	84.9	
Q2296-13	WC-4	11	1.15	10.77	11.92	9.95	81.7	
Q2296-14	WC-4-EPH	12	1.13	10.48	11.61	9.88	83.5	
Q2296-15	WC-4-VOC	13	1.14	10.72	11.86	9.71	79.9	
Q2296-17	WC-5	14	1.17	10.49	11.66	10.63	90.2	
Q2296-18	WC-5-EPH	15	1.17	10.50	11.67	10.32	87.1	
Q2296-19	WC-5-VOC	16	1.15	10.83	11.98	10.97	90.7	
Q2296-21	WC-6	19	1.13	10.37	11.5	10.2	87.5	
Q2296-22	WC-6-EPH	17	1.14	10.44	11.58	10.65	91.1	
Q2296-23	WC-6-VOC	18	1.17	10.82	11.99	10.36	84.9	
Q2297-01	TP-3	20	1.15	10.96	12.11	10.2	82.6	
Q2297-02	TP-3-EPH	21	1.14	10.85	11.99	11.04	91.2	
Q2297-03	TP-3-VOC	22	1.12	10.16	11.28	10.3	90.4	
Q2298-01	AU-05-061125	23	1.15	11.63	12.78	11.7	90.7	
Q2298-02	AU-05-061125	24	1.15	11.63	12.78	11.7	90.7	
Q2301-02	WC-URBAN-FILL-C	25	1.16	10.37	11.53	9.77	83.0	
Q2303-01	B-165-SB01	26	1.14	10.74	11.88	10.12	83.6	
Q2303-02	B-170-SB03	27	1.13	10.37	11.5	10.74	92.7	
Q2304-01	RBR200057-1	28	1.00	1.00	2.00	2.00	100.0	wipe sample

PERCENT SOLID

Supervisor: Iwona
Analyst: jignesh
Date: 6/13/2025

OVENTEMP IN Celsius(°C): 108
Time IN: 17:15
In Date: 06/12/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 103
Time OUT: 08:22
Out Date: 06/13/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLID- OVEN

QC: LB136126

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
Q2304-02	RBR200057-2	29	1.00	1.00	2.00	2.00	100.0	wipe sample
Q2304-03	VNJ239-3	30	1.00	1.00	2.00	2.00	100.0	wipe sample
Q2304-04	VNJ239-4	31	1.00	1.00	2.00	2.00	100.0	wipe sample
Q2304-05	VNJ239-5	32	1.00	1.00	2.00	2.00	100.0	wipe sample
Q2305-01	TR-04-06122025	33	1.18	10.17	11.35	11.17	98.2	
Q2305-02	TR-04-06122025-E2	34	1.13	10.69	11.82	11.24	94.6	
Q2307-01	LINDEN-SAA	35	1.14	10.54	11.68	8.87	73.3	
Q2307-02	LINDEN-SAA	36	1.13	10.70	11.83	8.87	72.3	
Q2308-01	EO-02-06122025	37	1.12	10.24	11.36	10.38	90.4	
Q2308-02	EO-02-06122025-E2	38	1.19	10.75	11.94	10.98	91.1	
Q2310-01	TP-7	39	1.18	10.42	11.6	10.42	88.7	
Q2310-02	TP-7-EPH	40	1.15	11.29	12.44	11.08	88.0	
Q2310-03	TP-7-VOC	41	1.12	10.91	12.03	10.99	90.5	

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

WORKLIST(Hardcopy Internal Chain)

B 136126

WorkList Name : %1-061225 **WorkList ID :** 190126 **Department :** Wet-Chemistry **Date :** 06-12-2025 08:16:58

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q2287-01	CONCRETE-SLAB	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	06/11/2025	Chemtech -SO
Q2296-01	WC-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	N22	06/11/2025	Chemtech -SO
Q2296-02	WC-1-EPH	Solid	Percent Solids	Cool 4 deg C	PSEG03	N22	06/11/2025	Chemtech -SO
Q2296-03	WC-1-VOC	Solid	Percent Solids	Cool 4 deg C	PSEG03	N22	06/11/2025	Chemtech -SO
Q2296-05	WC-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	N22	06/11/2025	Chemtech -SO
Q2296-06	WC-2-EPH	Solid	Percent Solids	Cool 4 deg C	PSEG03	N22	06/11/2025	Chemtech -SO
Q2296-07	WC-2-VOC	Solid	Percent Solids	Cool 4 deg C	PSEG03	N22	06/11/2025	Chemtech -SO
Q2296-09	WC-3	Solid	Percent Solids	Cool 4 deg C	PSEG03	N22	06/11/2025	Chemtech -SO
Q2296-10	WC-3-EPH	Solid	Percent Solids	Cool 4 deg C	PSEG03	N22	06/11/2025	Chemtech -SO
Q2296-11	WC-3-VOC	Solid	Percent Solids	Cool 4 deg C	PSEG03	N22	06/11/2025	Chemtech -SO
Q2296-13	WC-4	Solid	Percent Solids	Cool 4 deg C	PSEG03	N22	06/11/2025	Chemtech -SO
Q2296-14	WC-4-EPH	Solid	Percent Solids	Cool 4 deg C	PSEG03	N22	06/11/2025	Chemtech -SO
Q2296-15	WC-4-VOC	Solid	Percent Solids	Cool 4 deg C	PSEG03	N22	06/11/2025	Chemtech -SO
Q2296-17	WC-5	Solid	Percent Solids	Cool 4 deg C	PSEG03	N22	06/11/2025	Chemtech -SO
Q2296-18	WC-5-EPH	Solid	Percent Solids	Cool 4 deg C	PSEG03	N22	06/11/2025	Chemtech -SO
Q2296-19	WC-5-VOC	Solid	Percent Solids	Cool 4 deg C	PSEG03	N22	06/11/2025	Chemtech -SO
Q2296-21	WC-6	Solid	Percent Solids	Cool 4 deg C	PSEG03	N22	06/11/2025	Chemtech -SO
Q2296-22	WC-6-EPH	Solid	Percent Solids	Cool 4 deg C	PSEG03	N22	06/11/2025	Chemtech -SO
Q2296-23	WC-6-VOC	Solid	Percent Solids	Cool 4 deg C	PSEG03	N22	06/11/2025	Chemtech -SO
Q2297-01	TP-3	Solid	Percent Solids	Cool 4 deg C	PSEG03	N11	06/11/2025	Chemtech -SO
Q2297-02	TP-3-EPH	Solid	Percent Solids	Cool 4 deg C	PSEG03	N11	06/11/2025	Chemtech -SO

Date/Time 06.12.25 15:20

Raw Sample Received by: [signature]

Raw Sample Relinquished by: [signature]

Date/Time 06.12.25 17:30

Raw Sample Received by: [signature]

Raw Sample Relinquished by: [signature]

WORKLIST(Hardcopy Internal Chain)

VN136126

WorkList Name : %1-061225 **WorkList ID :** 190126 **Department :** Wet-Chemistry **Date :** 06-12-2025 08:16:58

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q2297-03	TP-3-VOC	Solid	Percent Solids	Cool 4 deg C	PSEG03	N11	06/11/2025	Chemtech -SO
Q2298-01	AU-05-061125	Solid	Percent Solids	Cool 4 deg C	PSEG05	D41	06/11/2025	Chemtech -SO
Q2298-02	AU-05-061125	Solid	Percent Solids	Cool 4 deg C	PSEG05	D41	06/11/2025	Chemtech -SO
Q2301-02	WC-URBAN-FILL-C	Solid	Percent Solids	Cool 4 deg C	ENTA05	D41	06/11/2025	Chemtech -SO
Q2303-01	B-165-SB01	Solid	Percent Solids	Cool 4 deg C	PORT06	D41	06/11/2025	Chemtech -SO
Q2303-02	B-170-SB03	Solid	Percent Solids	Cool 4 deg C	PORT06	D41	06/11/2025	Chemtech -SO
Q2304-01	RBR200057-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	06/12/2025	Chemtech -SO
Q2304-02	RBR200057-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	06/12/2025	Chemtech -SO
Q2304-03	VNJ239-3	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	06/12/2025	Chemtech -SO
Q2304-04	VNJ239-4	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	06/12/2025	Chemtech -SO
Q2304-05	VNJ239-5	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	06/12/2025	Chemtech -SO
Q2305-01	TR-04-06122025	Solid	Percent Solids	Cool 4 deg C	PSEG05	D41	06/12/2025	Chemtech -SO
Q2305-02	TR-04-06122025-E2	Solid	Percent Solids	Cool 4 deg C	PSEG05	D41	06/12/2025	Chemtech -SO
Q2307-01	LINDEN-SAA	Solid	Percent Solids	Cool 4 deg C	PSEG03	D51	06/12/2025	Chemtech -SO
Q2307-02	LINDEN-SAA	Solid	Percent Solids	Cool 4 deg C	PSEG03	D51	06/12/2025	Chemtech -SO
Q2308-01	EO-02-06122025	Solid	Percent Solids	Cool 4 deg C	PSEG05	D51	06/12/2025	Chemtech -SO
Q2308-02	EO-02-06122025-E2	Solid	Percent Solids	Cool 4 deg C	PSEG05	D51	06/12/2025	Chemtech -SO
Q2310-01	TP-7	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	06/12/2025	Chemtech -SO
Q2310-02	TP-7-EPH	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	06/12/2025	Chemtech -SO
Q2310-03	TP-7-VOC	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	06/12/2025	Chemtech -SO

Date/Time 06.12.25 1520

Raw Sample Received by:

Raw Sample Relinquished by:

Date/Time 06.12.25 17:30

Raw Sample Received by:

Raw Sample Relinquished by:

SHIPPING DOCUMENTS

Alliance TECHNICAL GROUP

284 Sheffield Street, Mountainside, NJ 07092
(908) 789-8900 Fax: (908) 788-9222
www.chemtech.net

CHAIN OF CUSTODY RECORD

Alliance Project Number: Q2301

COC Number: 2042113

CLIENT INFORMATION

COMPANY: ENTACT, LLC
ADDRESS: 150 Bay Street, Suite 806
CITY: Jersey City STATE: NJ ZIP: 07302
ATTENTION: Austin Farmerie
PHONE: 412-716-1366 FAX:

PROJECT INFORMATION

PROJECT NAME: 540 Degraw St Brooklyn, NY
PROJECT #: E9309 LOCATION: Brooklyn, NY
PROJECT MANAGER: Austin Farmerie
E-MAIL: afarmerie@entact.com
PHONE: 412-716-1366 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: 3 DAYS*
HARD COPY: DAYS*
EDD 3 DAYS*
* TO BE APPROVED BY ALLIANCE
STANDARD TURNAROUND TIME IS 10 BUSINESS DAYS

DATA DELIVERABLE INFORMATION

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

ANALYSIS

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

CHEMTECH SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE COMP	SAMPLE TYPE GRAB	SAMPLE COLLECTION DATE	SAMPLE COLLECTION TIME	# of Bottles	PRESERVATIVES 1	2	3	4	5	6	7	8	9
1.	WC-URBAN-FILL-G	Soil		X	6/11	12:00	1	X								
2.	WC-URBAN-FILL-C	Soil	X		6/11	12:00	11		X	X	X	X	X	X	X	X
3.																
4.																
5.																
6.																
7.																
8.																
9.																
10.																

PRESERVATIVES: E E E E E E E E E

COMMENTS

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

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

RELINQUISHED BY SAMPLER	DATE/TIME	RECEIVED BY
1. Austin Farmerie	6/11 12:00	1. 12:52
RELINQUISHED BY	DATE/TIME	RECEIVED BY
2.		2.
RELINQUISHED BY	DATE/TIME	RECEIVED FOR LAB BY
3.	6-11-2025 1745	3.

Conditions of bottles or coolers at receipt: ☐ Compliant ☐ Non Compliant ☐ Cooler Temp 3.0°C Ice in Cooler?: Yes

Comments:

Page of

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

Shipment Complete ☐ YES ☐ NO

WHITE - ALLIANCE COPYFOR RETURN TO CLIENT YELLOW - ALLIANCE COPY PINK - SAMPLER COPY

Alliance TECHNICAL GROUP

284 Sheffield Street, Mountainside, NJ 07092
(908) 789-8900 Fax: (908) 788-9222
www.chemtech.net

CHAIN OF CUSTODY RECORD

Alliance Project Number: Q2301

COC Number: 2042113

CLIENT INFORMATION

COMPANY: **ENTACT, LLC**
ADDRESS: **150 Bay Street, Suite 806**
CITY **Jersey City** STATE: **NJ** ZIP: **07302**
ATTENTION: **Austin Farmerie**
PHONE: **412-716-1366** FAX:

PROJECT INFORMATION

PROJECT NAME: **540 Degraw St Brooklyn, NY**
PROJECT #: **E9309** LOCATION: **Brooklyn, NY**
PROJECT MANAGER: **Austin Farmerie**
E-MAIL: **afarmerie@entact.com**
PHONE: **412-716-1366** 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: 3 DAYS*
HARD COPY: DAYS*
EDD 3 DAYS*
* TO BE APPROVED BY ALLIANCE
STANDARD TURNAROUND TIME IS 10 BUSINESS DAYS

DATA DELIVERABLE INFORMATION

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

ANALYSIS

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

CHEMTECH SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE COMP	SAMPLE TYPE GRAB	SAMPLE COLLECTION DATE	SAMPLE COLLECTION TIME	# of Bottles	PRESERVATIVES 1	2	3	4	5	6	7	8	9
								E	E	E	E	E	E	E		
1.	WC-URBAN-FILL-G	Soil		X	6/11	12:00	1									
2.	WC-URBAN-FILL-C	Soil	X		6/11	12:00	11	X	X	X	X	X	X	X		
3.																
4.																
5.																
6.																
7.																
8.																
9.																
10.																

COMMENTS

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

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

	DATE/TIME	RECEIVED BY
RELINQUISHED BY SAMPLER 1. **Austin Farmerie**	6-11-2025 12:52	1.
RELINQUISHED BY 2.	DATE/TIME	RECEIVED BY 2.
RELINQUISHED BY 3.	DATE/TIME 6-11-2025 1745	RECEIVED FOR LAB BY 3.

Conditions of bottles or coolers at receipt: ☐ Compliant ☐ Non Compliant ☐ Cooler Temp 3.0°C
Ice in Cooler?: YES

Comments:

Page of

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

Shipment Complete ☐ YES ☐ NO

WHITE - ALLIANCE COPYFOR RETURN TO CLIENT **YELLOW** - ALLIANCE COPY **PINK** - SAMPLER COPY

284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

Laboratory Certification

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

QA Control Code: A2070148