

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

LAB CHRONICLE

OrderID:	Q1626	OrderDate:	3/21/2025 12:59:00 PM
Client:	Walsh Construction Company II, LLC	Project:	Walsh CO-032 Sampling
Contact:	Evelyne Benie Dion Gokan	Location:	F11,VOA Ref. #2 Soil

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q1626-01	CO-32-1	SOIL			03/21/25 11:20			03/21/25
			Ammonia	SM4500-NH3		03/25/25	03/25/25 12:28	
			COD	SM5220 D			03/25/25 15:07	
			Cyanide	9012B		03/25/25	03/25/25 16:34	
			Hexavalent Chromium	7196A		03/24/25	03/24/25 15:28	
			Oil and Grease	9071B			03/25/25 09:30	
			Paint Filter	9095B			03/25/25 09:38	
			TS	SM2540 B			03/24/25 12:00	
			TVS	160.4			03/24/25 16:25	
Q1626-03	CO-32-1	SOIL			03/21/25 11:20			03/21/25
			Corrosivity	9045D			03/24/25 16:55	
			Ignitability	1030			03/24/25 11:38	
			Reactive Cyanide	9012B		03/25/25	03/25/25 15:45	
			Reactive Sulfide	9034		03/25/25	03/25/25 11:33	



SAMPLE DATA

Report of Analysis

Client:	Walsh Construction Company II, LLC	Date Collected:	03/21/25 11:20
Project:	Walsh CO-032 Sampling	Date Received:	03/21/25
Client Sample ID:	CO-32-1	SDG No.:	Q1626
Lab Sample ID:	Q1626-01	Matrix:	SOIL
		% Solid:	94.8

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.
Ammonia as N	2.30	U	1	2.30	5.20	mg/Kg	03/25/25 08:50	03/25/25 12:28	SM 4500-NH3 B plus G-11
COD	7640	D	5	435	2590	mg/Kg		03/25/25 15:07	SM 5220 D-11
Cyanide	0.043	U	1	0.043	0.26	mg/Kg	03/25/25 13:30	03/25/25 16:34	9012B
Hexavalent Chromium	0.069	U	1	0.069	0.40	mg/Kg	03/24/25 10:15	03/24/25 15:28	7196A
Oil and Grease	1930		1	6.12	26.3	mg/Kg		03/25/25 09:30	SW9071B
Paint Filter	1.00	U	1	1.00	1.00	ml/100gm		03/25/25 09:38	9095B
TS	94.8		1	1.00	5.00	%		03/24/25 12:00	SM 2540 B-15
TVS	2.70	J	1	1.00	10.0	%		03/24/25 16:25	160.4

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

Report of Analysis

Client:	Walsh Construction Company II, LLC	Date Collected:	03/21/25 11:20
Project:	Walsh CO-032 Sampling	Date Received:	03/21/25
Client Sample ID:	CO-32-1	SDG No.:	Q1626
Lab Sample ID:	Q1626-03	Matrix:	SOIL
		% Solid:	100

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Corrosivity	8.27	H	1	0	0	pH		03/24/25 16:55	9045D
Ignitability	NO		1	0	0	oC		03/24/25 11:38	1030
Reactive Cyanide	0.0083	U	1	0.0083	0.050	mg/Kg	03/25/25 11:30	03/25/25 15:45	9012B
Reactive Sulfide	1.59	J	1	0.20	10.0	mg/Kg	03/25/25 09:20	03/25/25 11:33	9034

Comments: pH result reported at temperature 22.6 °C

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

D = Dilution

Q = indicates LCS control criteria did not meet requirements

H = Sample Analysis Out Of Hold Time

J = Estimated Value

B = Analyte Found in Associated Method Blank

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

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

OR = Over Range

N =Spiked sample recovery not within control limits



QC RESULT SUMMARY



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

Initial and Continuing Calibration Verification

Client: Walsh Construction Company II, LLC

SDG No.: Q1626

Project: Walsh CO-032 Sampling

RunNo.: LB135159

Analyte	Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID: ICV Hexavalent Chromium	mg/L	0.492	0.5	98	90-110	03/24/2025
Sample ID: CCV1 Hexavalent Chromium	mg/L	0.489	0.5	98	90-110	03/24/2025
Sample ID: CCV2 Hexavalent Chromium	mg/L	0.494	0.5	99	90-110	03/24/2025
Sample ID: CCV3 Hexavalent Chromium	mg/L	0.496	0.5	99	90-110	03/24/2025

Initial and Continuing Calibration Verification

Client: Walsh Construction Company II, LLC

SDG No.: Q1626

Project: Walsh CO-032 Sampling

RunNo.: LB135166

Analyte		Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID:	ICV						
Corrosivity		pH	7.00	7	100	90-110	03/24/2025
Sample ID:	CCV1						
Corrosivity		pH	2.01	2.00	101	90-110	03/24/2025
Sample ID:	CCV2						
Corrosivity		pH	12.02	12.00	100	90-110	03/24/2025
Sample ID:	CCV3						
Corrosivity		pH	2.01	2.00	101	90-110	03/24/2025

Initial and Continuing Calibration Verification

Client: Walsh Construction Company II, LLC

SDG No.: Q1626

Project: Walsh CO-032 Sampling

RunNo.: LB135176

Analyte	Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID: ICV1 Ammonia as N	mg/L	1	1	100	90-110	03/25/2025
Sample ID: CCV1 Ammonia as N	mg/L	1	1	100	90-110	03/25/2025
Sample ID: CCV2 Ammonia as N	mg/L	0.98	1	98	90-110	03/25/2025
Sample ID: CCV3 Ammonia as N	mg/L	1	1	100	90-110	03/25/2025
Sample ID: CCV4 Ammonia as N	mg/L	0.98	1	98	90-110	03/25/2025

Initial and Continuing Calibration Verification

Client: Walsh Construction Company II, LLC

SDG No.: Q1626

Project: Walsh CO-032 Sampling

RunNo.: LB135178

Analyte	Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID: ICV COD	mg/L	49.329	50	99	95-105	01/22/2025
Sample ID: CCV1 COD	mg/L	50.319	50	101	95-105	03/25/2025
Sample ID: CCV2 COD	mg/L	49.329	50	99	95-105	03/25/2025

Initial and Continuing Calibration Verification

Client: Walsh Construction Company II, LLC

SDG No.: Q1626

Project: Walsh CO-032 Sampling

RunNo.: LB135179

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	03/25/2025
Sample ID: CCV1 Reactive Cyanide	mg/L	0.24	0.25	96	90-110	03/25/2025
Sample ID: CCV2 Reactive Cyanide	mg/L	0.24	0.25	96	90-110	03/25/2025
Sample ID: CCV3 Reactive Cyanide	mg/L	0.24	0.25	96	90-110	03/25/2025
Sample ID: CCV4 Reactive Cyanide	mg/L	0.24	0.25	96	90-110	03/25/2025

Initial and Continuing Calibration Verification

Client: Walsh Construction Company II, LLC

SDG No.: Q1626

Project: Walsh CO-032 Sampling

RunNo.: LB135181

Analyte	Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID: ICV1 Cyanide	mg/L	0.096	0.099	97	90-110	03/25/2025
Sample ID: CCV1 Cyanide	mg/L	0.24	0.25	96	90-110	03/25/2025
Sample ID: CCV2 Cyanide	mg/L	0.25	0.25	100	90-110	03/25/2025

Initial and Continuing Calibration Blank Summary

Client: Walsh Construction Company II, LLC

SDG No.: Q1626

Project: Walsh CO-032 Sampling

RunNo.: LB135159

Analyte	Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID: ICB Hexavalent Chromium	mg/L	< 0.0050	0.0050	U	0.0029	0.01	03/24/2025
Sample ID: CCB1 Hexavalent Chromium	mg/L	< 0.0050	0.0050	U	0.0029	0.01	03/24/2025
Sample ID: CCB2 Hexavalent Chromium	mg/L	< 0.0050	0.0050	U	0.0029	0.01	03/24/2025
Sample ID: CCB3 Hexavalent Chromium	mg/L	< 0.0050	0.0050	U	0.0029	0.01	03/24/2025

Initial and Continuing Calibration Blank Summary

Client: Walsh Construction Company II, LLC

SDG No.: Q1626

Project: Walsh CO-032 Sampling

RunNo.: LB135176

Analyte	Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID: ICB1 Ammonia as N	mg/L	< 0.0500	0.0500	U	0.030	0.1	03/25/2025
Sample ID: CCB1 Ammonia as N	mg/L	< 0.0500	0.0500	U	0.030	0.1	03/25/2025
Sample ID: CCB2 Ammonia as N	mg/L	0.037	0.0500	J	0.030	0.1	03/25/2025
Sample ID: CCB3 Ammonia as N	mg/L	< 0.0500	0.0500	U	0.030	0.1	03/25/2025
Sample ID: CCB4 Ammonia as N	mg/L	< 0.0500	0.0500	U	0.030	0.1	03/25/2025

Initial and Continuing Calibration Blank Summary

Client: Walsh Construction Company II, LLC

SDG No.: Q1626

Project: Walsh CO-032 Sampling

RunNo.: LB135178

Analyte	Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID: ICB COD	mg/L	< 5.0000	5.0000	U	1.50	10	01/22/2025
Sample ID: CCB1 COD	mg/L	< 5.0000	5.0000	U	1.50	10	03/25/2025
Sample ID: CCB2 COD	mg/L	< 5.0000	5.0000	U	1.50	10	03/25/2025

Initial and Continuing Calibration Blank Summary

Client: Walsh Construction Company II, LLC

SDG No.: Q1626

Project: Walsh CO-032 Sampling

RunNo.: LB135179

Analyte	Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID: ICB1 Reactive Cyanide	mg/L	< 0.0025	0.0025	U	0.00096	0.005	03/25/2025
Sample ID: CCB1 Reactive Cyanide	mg/L	< 0.0025	0.0025	U	0.00096	0.005	03/25/2025
Sample ID: CCB2 Reactive Cyanide	mg/L	0.00096	0.0025	J	0.00096	0.005	03/25/2025
Sample ID: CCB3 Reactive Cyanide	mg/L	0.001	0.0025	J	0.00096	0.005	03/25/2025
Sample ID: CCB4 Reactive Cyanide	mg/L	< 0.0025	0.0025	U	0.00096	0.005	03/25/2025

Initial and Continuing Calibration Blank Summary

Client: Walsh Construction Company II, LLC

SDG No.: Q1626

Project: Walsh CO-032 Sampling

RunNo.: LB135181

Analyte	Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID: ICB1 Cyanide	mg/L	< 0.0025	0.0025	U	0.00096	0.005	03/25/2025
Sample ID: CCB1 Cyanide	mg/L	< 0.0025	0.0025	U	0.00096	0.005	03/25/2025
Sample ID: CCB2 Cyanide	mg/L	< 0.0025	0.0025	U	0.00096	0.005	03/25/2025

Preparation Blank Summary

Client: Walsh Construction Company II, LLC

SDG No.: Q1626

Project: Walsh CO-032 Sampling

Analyte	Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID: LB135161BL TS	%	< 2.5000	2.5000	U	1	5	03/24/2025
Sample ID: LB135162BL TVS	%	< 5.0000	5.0000	U	1	10	03/24/2025
Sample ID: LB135168BL Oil and Grease	mg/Kg	< 12.5000	12.5000	U	5.8	25	03/25/2025
Sample ID: LB135178BL COD	mg/Kg	< 250.0000	250.0000	U	84.1	500	03/25/2025
Sample ID: PB167259BL Hexavalent Chromium	mg/Kg	< 0.2000	0.2000	U	0.07	0.4	03/24/2025
Sample ID: PB167281BL Ammonia as N	mg/Kg	< 2.5000	2.5000	U	2.2	5	03/25/2025
Sample ID: PB167287BL Reactive Sulfide	mg/Kg	< 5.0000	5.0000	U	0.201	10	03/25/2025
Sample ID: PB167300BL Reactive Cyanide	mg/Kg	< 0.0250	0.0250	U	0.0084	0.05	03/25/2025
Sample ID: PB167306BL Cyanide	mg/Kg	< 0.1250	0.1250	U	0.042	0.25	03/25/2025

Matrix Spike Summary

Client:	Walsh Construction Company II, LLC	SDG No.:	Q1626
Project:	Walsh CO-032 Sampling	Sample ID:	Q1614-01
Client ID:	TR-04-032025MS	Percent Solids for Spike Sample:	94.6

Analyte	Units	Acceptance Limit %R	Spiked Result	Conc. Qualifier	Sample Result	Conc. Qualifier	Spike Added	Dilution Factor	% Rec	Qual	Analysis Date
Hexavalent Chromium	mg/Kg	75-125	1290		0.073	U	1360	40	95		03/24/2025

Matrix Spike Summary

Client:	Walsh Construction Company II, LLC	SDG No.:	Q1626
Project:	Walsh CO-032 Sampling	Sample ID:	Q1614-01
Client ID:	TR-04-032025MS	Percent Solids for Spike Sample:	94.6

Analyte	Units	Acceptance Limit %R	Spiked Result	Conc. Qualifier	Sample Result	Conc. Qualifier	Spike Added	Dilution Factor	% Rec	Qual	Analysis Date
Hexavalent Chromium	mg/Kg	85-115	39.0		0.073	U	42.3	2	92		03/24/2025

Matrix Spike Summary

Client:	Walsh Construction Company II, LLC	SDG No.:	Q1626
Project:	Walsh CO-032 Sampling	Sample ID:	Q1614-01
Client ID:	TR-04-032025MS	Percent Solids for Spike Sample:	94.6

Analyte	Units	Acceptance Limit %R	Spiked Result	Conc. Qualifier	Sample Result	Conc. Qualifier	Spike Added	Dilution Factor	% Rec	Qual	Analysis Date
Hexavalent Chromium	mg/Kg	75-125	33.0		0.073	U	42.3	2	78		03/24/2025

Matrix Spike Summary

Client:	Walsh Construction Company II, LLC	SDG No.:	Q1626
Project:	Walsh CO-032 Sampling	Sample ID:	Q1626-01
Client ID:	CO-32-1MS	Percent Solids for Spike Sample:	94.8

Analyte	Units	Acceptance Limit %R	Spiked Result	Conc. Qualifier	Sample Result	Conc. Qualifier	Spike Added	Dilution Factor	% Rec	Qual	Analysis Date
Cyanide	mg/Kg	75-125	1.70		0.043	U	2.1	1	81		03/25/2025

Matrix Spike Summary

Client:	Walsh Construction Company II, LLC	SDG No.:	Q1626
Project:	Walsh CO-032 Sampling	Sample ID:	Q1626-01
Client ID:	CO-32-1MSD	Percent Solids for Spike Sample:	94.8

Analyte	Units	Acceptance Limit %R	Spiked Result	Conc. Qualifier	Sample Result	Conc. Qualifier	Spike Added	Dilution Factor	% Rec	Qual	Analysis Date
Cyanide	mg/Kg	75-125	1.70		0.043	U	2.1	1	81		03/25/2025

Matrix Spike Summary

Client:	Walsh Construction Company II, LLC	SDG No.:	Q1626
Project:	Walsh CO-032 Sampling	Sample ID:	Q1632-01
Client ID:	PIER-1-2MS	Percent Solids for Spike Sample:	95.4

Analyte	Units	Acceptance Limit %R	Spiked Result	Conc. Qualifier	Sample Result	Conc. Qualifier	Spike Added	Dilution Factor	% Rec	Qual	Analysis Date
Oil and Grease	mg/Kg	75-125	36.6		20.9	J	105	1	15	*	03/25/2025
COD	mg/Kg	75-125	4570		2090		2570	1	96		03/25/2025
Ammonia as N	mg/Kg	75-125	53.2		2.20	U	51.4	1	104		03/25/2025

Matrix Spike Summary

Client:	Walsh Construction Company II, LLC	SDG No.:	Q1626
Project:	Walsh CO-032 Sampling	Sample ID:	Q1632-01
Client ID:	PIER-1-2MSD	Percent Solids for Spike Sample:	95.4

Analyte	Units	Acceptance Limit %R	Spiked Result	Conc. Qualifier	Sample Result	Conc. Qualifier	Spike Added	Dilution Factor	% Rec	Qual	Analysis Date
Oil and Grease	mg/Kg	75-125	52.3		20.9	J	105	1	30	*	03/25/2025
COD	mg/Kg	75-125	4470		2090		2570	1	93		03/25/2025
Ammonia as N	mg/Kg	75-125	52.5		2.20	U	50.9	1	103		03/25/2025

Duplicate Sample Summary

Client:	Walsh Construction Company II, LLC	SDG No.:	Q1626
Project:	Walsh CO-032 Sampling	Sample ID:	Q1610-02
Client ID:	SOIL-PILEDUP	Percent Solids for Spike Sample:	86.5

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/ AD	Qual	Analysis Date
Ignitability	oC	+/-20	NO		NO		1	0		03/24/2025

Duplicate Sample Summary

Client:	Walsh Construction Company II, LLC	SDG No.:	Q1626
Project:	Walsh CO-032 Sampling	Sample ID:	Q1614-01
Client ID:	TR-04-032025DUP	Percent Solids for Spike Sample:	94.6

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/ AD	Qual	Analysis Date
Hexavalent Chromium	mg/Kg	+/-20	0.073	U	0.073	U	1	0		03/24/2025

Duplicate Sample Summary

Client:	Walsh Construction Company II, LLC	SDG No.:	Q1626
Project:	Walsh CO-032 Sampling	Sample ID:	Q1619-06
Client ID:	TP-1DUP	Percent Solids for Spike Sample:	100

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/ AD	Qual	Analysis Date
Reactive Cyanide	mg/Kg	+/-20	0.0083	U	0.0084	U	1	0		03/25/2025

Duplicate Sample Summary

Client: Walsh Construction Company II, LLC	SDG No.: Q1626
Project: Walsh CO-032 Sampling	Sample ID: Q1626-01
Client ID: CO-32-1DUP	Percent Solids for Spike Sample: 100

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/AD	Qual	Analysis Date
TS	%	+/-5	94.8		95.2		1	0.42		03/24/2025
TVS	%	+/-5	2.70	J	2.60	J	1	3.77		03/24/2025

Duplicate Sample Summary

Client:	Walsh Construction Company II, LLC	SDG No.:	Q1626
Project:	Walsh CO-032 Sampling	Sample ID:	Q1626-01
Client ID:	CO-32-1DUP	Percent Solids for Spike Sample:	94.8

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/ AD	Qual	Analysis Date
Cyanide	mg/Kg	+/-20	0.043	U	0.044	U	1	0		03/25/2025

Duplicate Sample Summary

Client:	Walsh Construction Company II, LLC	SDG No.:	Q1626
Project:	Walsh CO-032 Sampling	Sample ID:	Q1626-01
Client ID:	CO-32-1MSD	Percent Solids for Spike Sample:	94.8

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/ AD	Qual	Analysis Date
Cyanide	mg/Kg	+/-20	1.70		1.70		1	0		03/25/2025

Duplicate Sample Summary

Client:	Walsh Construction Company II, LLC	SDG No.:	Q1626
Project:	Walsh CO-032 Sampling	Sample ID:	Q1626-03
Client ID:	CO-32-1DUP	Percent Solids for Spike Sample:	100

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/ AD	Qual	Analysis Date
Reactive Sulfide	mg/Kg	+/-20	1.59	J	1.59	J	1	0		03/25/2025

Duplicate Sample Summary

Client: Walsh Construction Company II, LLC Project: Walsh CO-032 Sampling Client ID: PIER-1-2DUP	SDG No.: Q1626 Sample ID: Q1632-01 Percent Solids for Spike Sample: 95.4
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Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/AD	Qual	Analysis Date
Oil and Grease	mg/Kg	+/-20	20.9	J	20.9	J	1	0.05		03/25/2025
Ammonia as N	mg/Kg	+/-20	2.20	U	2.20	U	1	0		03/25/2025
COD	mg/Kg	+/-20	2090		2210		1	5.58		03/25/2025

Duplicate Sample Summary

Client: Walsh Construction Company II, LLC	SDG No.: Q1626
Project: Walsh CO-032 Sampling	Sample ID: Q1632-01
Client ID: PIER-1-2MSD	Percent Solids for Spike Sample: 95.4

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/AD	Qual	Analysis Date
Oil and Grease	mg/Kg	+/-20	36.6		52.3		1	35.3	*	03/25/2025
Ammonia as N	mg/Kg	+/-20	53.2		52.5		1	1		03/25/2025
COD	mg/Kg	+/-20	4570		4470		1	2.21		03/25/2025

Duplicate Sample Summary

Client:	Walsh Construction Company II, LLC	SDG No.:	Q1626
Project:	Walsh CO-032 Sampling	Sample ID:	Q1632-02
Client ID:	PIER-1-2DUP	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	10.6		10.6		1	0.09		03/24/2025

Duplicate Sample Summary

Client: Walsh Construction Company II, LLC	SDG No.: Q1626
Project: Walsh CO-032 Sampling	Sample ID: Q1635-01
Client ID: TP-2DUP	Percent Solids for Spike Sample: 89.4

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/ AD	Qual	Analysis Date
Paint Filter	ml/100gm	+/-20	1.00	U	1.00	U	1	0		03/25/2025

Laboratory Control Sample Summary

Client: Walsh Construction Company II, LLC

SDG No.: Q1626

Project: Walsh CO-032 Sampling

Run No.: LB135168

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

Laboratory Control Sample Summary

Client: Walsh Construction Company II, LLC

SDG No.: Q1626

Project: Walsh CO-032 Sampling

Run No.: LB135178

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID	LB135178BS							
COD	mg/Kg	2500	2470		99	1	90-110	03/25/2025

Laboratory Control Sample Summary

Client: Walsh Construction Company II, LLC

SDG No.: Q1626

Project: Walsh CO-032 Sampling

Run No.: LB135159

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID	PB167259BS							
Hexavalent Chromium	mg/Kg	20	19.9		100	1	84-110	03/24/2025

Laboratory Control Sample Summary

Client: Walsh Construction Company II, LLC

SDG No.: Q1626

Project: Walsh CO-032 Sampling

Run No.: LB135176

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID	PB167281BS							
Ammonia as N	mg/Kg	50	53.1		106	1	90-110	03/25/2025

Laboratory Control Sample Summary

Client: Walsh Construction Company II, LLC

SDG No.: Q1626

Project: Walsh CO-032 Sampling

Run No.: LB135181

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID	PB167306BS							
Cyanide	mg/Kg	5	4.70		94	1	85-115	03/25/2025



RAW DATA

Analytical Summary Report

Analysis Method: 1030
Parameter: Ignitability
Run Number: LB135156

Reviewed By: Iwona

Supervisor Review By: jignesh

Seq	LabID	ClientID	DF	matrix	Result Status	Burning Rate	Anal Date	Anal Time
1	Q1610-02	SOIL-PILE	1	Solid	NO	0.00	03/24/2025	10:00
2	Q1610-02DUP	SOIL-PILEDUP	1	Solid	NO	0.00	03/24/2025	10:08
3	Q1610-03	SOIL-PILE	1	Solid	NO	0.00	03/24/2025	10:15
4	Q1619-05	TP-1	1	Solid	NO	0.00	03/24/2025	10:22
5	Q1619-06	TP-1	1	Solid	NO	0.00	03/24/2025	10:30
6	Q1619-07	TP-2	1	Solid	NO	0.00	03/24/2025	10:37
7	Q1619-08	TP-2	1	Solid	NO	0.00	03/24/2025	10:45
8	Q1619-09	TP-3	1	Solid	NO	0.00	03/24/2025	10:52
9	Q1619-10	TP-3	1	Solid	NO	0.00	03/24/2025	11:00
10	Q1619-11	TP-4	1	Solid	NO	0.00	03/24/2025	11:07
11	Q1619-12	TP-4	1	Solid	NO	0.00	03/24/2025	11:15
12	Q1619-13	TP-5	1	Solid	NO	0.00	03/24/2025	11:22
13	Q1619-14	TP-5	1	Solid	NO	0.00	03/24/2025	11:30
14	Q1626-03	CO-32-1	1	Solid	NO	0.00	03/24/2025	11:38
15	Q1627-01	GRID-LINE-1.2-NORTH	1	Solid	NO	0.00	03/24/2025	11:45

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

WORKLIST(Hardcopy Internal Chain)

LB135156

WorkList Name : IGN--24

WorkList ID : 188490

Department : Wet-Chemistry

Date : 03-24-2025 09:42:12

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1610-02	SOIL-PILE	Solid	Ignitability	Cool 4 deg C	PSEG03	I41	03/20/2025	1030
Q1610-03	SOIL-PILE	Solid	Ignitability	Cool 4 deg C	PSEG03	I41	03/20/2025	1030
Q1619-05	TP-1	Solid	Ignitability	Cool 4 deg C	PSEG03	I41	03/20/2025	1030
Q1619-06	TP-1	Solid	Ignitability	Cool 4 deg C	PSEG03	I41	03/20/2025	1030
Q1619-07	TP-2	Solid	Ignitability	Cool 4 deg C	PSEG03	I41	03/20/2025	1030
Q1619-08	TP-2	Solid	Ignitability	Cool 4 deg C	PSEG03	I41	03/20/2025	1030
Q1619-09	TP-3	Solid	Ignitability	Cool 4 deg C	PSEG03	I41	03/20/2025	1030
Q1619-10	TP-3	Solid	Ignitability	Cool 4 deg C	PSEG03	I41	03/20/2025	1030
Q1619-11	TP-4	Solid	Ignitability	Cool 4 deg C	PSEG03	I41	03/20/2025	1030
Q1619-12	TP-4	Solid	Ignitability	Cool 4 deg C	PSEG03	I41	03/20/2025	1030
Q1619-13	TP-5	Solid	Ignitability	Cool 4 deg C	PSEG03	I41	03/20/2025	1030
Q1619-14	TP-5	Solid	Ignitability	Cool 4 deg C	PSEG03	I41	03/20/2025	1030
Q1626-03	CO-32-1	Solid	Ignitability	Cool 4 deg C	WALS01	F11	03/21/2025	1030
Q1627-01	GRID-LINE-1.2-NORTH	Solid	Ignitability	Cool 4 deg C	TULL02	I41	03/20/2025	1030

Date/Time 03/24/2025 09:56
Raw Sample Received by: 12 (WC)
Raw Sample Relinquished by: [Signature]

Date/Time 03/20/2025 12:00
Raw Sample Received by: [Signature]
Raw Sample Relinquished by: 12 (WC)

Analytical Summary Report

Analysis Method: 7196A

ANALYST: rubina

Parameter: ~~Hexavalent Chromium~~

SUPERVISOR REVIEW BY: Iwona

Run Number: LB135159

pH Meter ID: WC pH Meter-1

Reagent/Standard	Lot/Log #
hexavalent chromium color reagent	WP112371
5N sulfuric acid	WP110380
HNO3 Hex-Chrome, 5M	WP110381
Hexchrome Cleaning Solution	WP111249

Intercept: 0.0009

Slope: 0.7647

Regression: 0.99999

Seq	Lab ID	True Value (mg/l)	DF	Initial Vol (ml)	Final Vol (ml)	pH HNO3	pH H2SO4	Absorb.at 540nm		Absorbance Difference	Result (mg/L)	%D	Anal Date	Anal Time
								Backgrnd	Color					
1	CAL1	0	1	100	100	7.28	1.91	0.000	0.000	0.000	-0.00		03/24/2025	15:00
2	CAL2	0.01	1	100	100	7.36	2.06	0.000	0.008	0.008	0.009	-10	03/24/2025	15:01
3	CAL3	0.025	1	100	100	7.42	1.88	0.000	0.020	0.020	0.024	-4	03/24/2025	15:02
4	CAL4	0.05	1	100	100	7.48	1.96	0.000	0.039	0.039	0.049	-2	03/24/2025	15:03
5	CAL5	0.1	1	100	100	7.39	1.90	0.000	0.080	0.080	0.103	3	03/24/2025	15:04
6	CAL6	0.5	1	100	100	7.38	1.88	0.000	0.382	0.382	0.498	-0.4	03/24/2025	15:05
7	CAL7	1	1	100	100	7.50	1.88	0.000	0.766	0.766	1.000	0	03/24/2025	15:06

Analytical Summary Report

Analysis Method: 7196A

ANALYST:rubina

Parameter: Hexavalent Chromium

SUPERVISOR REVIEW BY:Iwona

Run Number: LB135159

pH Meter ID:WC pH Meter-1

Seq	Lab ID	True Value	DF	Initial Vol (ml/gm)	Final Vol (ml)	pH HN03	pH H2SO4	Absorb.at540nm		Absorbance Difference	Intermediate Result (mg/L)	Anal Date	Anal Time
								Backgrnd	Color				
1	ICV	0.5	1	100	100	7.34	2.10	0.000	0.377	0.377	0.492	03/24/2025	15:07
2	ICB		1	100	100	7.30	1.88	0.000	0.001	0.001	0.000	03/24/2025	15:08
3	CCV1	0.5	1	100	100	7.42	1.88	0.000	0.375	0.375	0.489	03/24/2025	15:09
4	CCB1		1	100	100	7.36	1.81	0.000	0.000	0.000	-0.001	03/24/2025	15:10
5	RL Check	0.01	1	100	100	7.44	1.96	0.000	0.009	0.009	0.011	03/24/2025	15:11
6	PB167259BL		1	2.50	100	7.27	1.76	0.000	0.001	0.001	0.000	03/24/2025	15:12
7	PB167259BS	20	1	2.50	100	7.47	1.95	0.000	0.381	0.381	0.497	03/24/2025	15:13
8	Q1610-02		1	2.55	100	7.60	1.98	0.011	0.012	0.001	0.000	03/24/2025	15:14
9	Q1614-01		1	2.53	100	7.52	2.15	0.002	0.003	0.001	0.000	03/24/2025	15:15
10	Q1614-01DU		1	2.53	100	7.50	2.20	0.002	0.003	0.001	0.000	03/24/2025	15:16
11	Q1614-01MS	40	2	2.54	100	7.59	2.18	0.000	0.304	0.304	0.396	03/24/2025	15:17
12	Q1614-01MS	1284	40	2.53	100	7.55	2.20	0.000	0.592	0.592	0.773	03/24/2025	15:18
13	Q1614-01MS	40	2	2.54	100	7.60	2.17	0.000	0.359	0.359	0.468	03/24/2025	15:19
14	Q1619-05		1	2.57	100	7.60	2.10	0.009	0.010	0.001	0.000	03/24/2025	15:20
15	Q1619-07		1	2.58	100	7.52	2.20	0.010	0.010	0.000	-0.001	03/24/2025	15:21
16	CCV2	0.5	1	100	100	7.39	1.90	0.000	0.379	0.379	0.494	03/24/2025	15:22
17	CCB2		1	100	100	7.24	1.88	0.000	0.000	0.000	-0.001	03/24/2025	15:23
18	Q1619-09		1	2.52	100	7.64	2.28	0.011	2.984	2.973	3.887	03/24/2025	15:24
19	Q1619-11		1	2.53	100	7.66	2.35	0.007	0.110	0.103	0.134	03/24/2025	15:25
20	Q1619-13		1	2.55	100	7.72	2.10	0.012	3.294	3.282	4.291	03/24/2025	15:26
21	Q1624-01		1	2.55	100	7.57	2.16	0.003	0.003	0.000	-0.001	03/24/2025	15:27
22	Q1626-01		1	2.53	100	7.60	2.11	0.004	0.004	0.000	-0.001	03/24/2025	15:28
23	Q1630-01		1	2.51	100	7.52	2.06	0.006	0.007	0.001	0.000	03/24/2025	15:29
24	Q1619-09		10	2.52	100	7.64	2.28	0.000	0.330	0.330	0.430	03/24/2025	15:30
25	Q1619-13		10	2.55	100	7.72	2.10	0.000	0.369	0.369	0.481	03/24/2025	15:31
26	CCV3	0.5	1	100	100	7.52	1.97	0.000	0.380	0.380	0.496	03/24/2025	15:32
27	CCB3		1	100	100	7.36	2.06	0.000	0.001	0.001	0.000	03/24/2025	15:33

TOTAL SOLIDS - SM2540B

SUPERVISOR: Iwona

ANALYST: jignesh

Date: 03/24/2025

Run Number: LB135161

BalanceID: WC SC-6

OvenID: WC OVEN-1

ThermometerID: WET OVEN#1

TEMP1 IN: 104 °C 03/24/2025 12:00 **TEMP1 OUT:** 103 °C 03/24/2025 13:00
TEMP2 IN: 104 °C 03/24/2025 13:30 **TEMP2 OUT:** 103 °C 03/24/2025 14:30
TEMP3 IN: 104 °C 03/24/2025 16:25 **TEMP3 OUT:** 103 °C 03/25/2025 08:00
TEMP4 IN: 104 °C 03/25/2025 08:30 **TEMP4 OUT:** 103 °C 03/25/2025 10:00

Dish #	Lab ID	Client ID	Empty Dish Weight (g)	Final Empty Dish Weight (g)	Dish + Sample Weight (g)	Original weight 1st Dish+Sample weight after Drying @103-@105°C (g)	Constant weight 2nd Dish+Sample weight after Drying @103-@105°C (g)	Final Constant weight Final Dish+Sample weight after Drying @103-@105°C (g)	Weight (g)	Result %
1	LB135161BL	LB135161BL	96.3021	96.3021	96.3021	96.3021	96.3021	96.3021	0.0000	0
2	Q1626-01	CO-32-1	55.8868	55.8868	76.7467	75.6709	75.6709	75.6709	19.7841	94.8
3	Q1626-01DUP	CO-32-1DUP	59.3954	59.3954	81.6202	80.5490	80.5490	80.5490	21.1536	95.2
4	Q1632-01	PIER-1-2	82.3405	82.3405	100.1333	98.6953	98.6953	98.6953	16.3548	91.9

A = Final Empty Dish Weight (g)

B = Dish + Sample Weight (g)

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

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

WORKLIST(Hardcopy Internal Chain)

WorkList Name : TS Q1626 S

WorkList ID : 188481

Department : Wet-Chemistry

Date : 03-24-2025 10:59:36

WB 135161

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1626-01	CO-32-1	Solid	TS	Cool 4 deg C	WALS01	F11	03/21/2025	SM2540 B
Q1632-01	PIER-1-2	Solid	TS	Cool 4 deg C	PSEG03	I41	03/24/2025	SM2540 B

Date/Time 03/24/25 13:30

Raw Sample Received by: JH WCI

Raw Sample Relinquished by: CP SMC

Date/Time 03/24/25 16:30

Raw Sample Received by: CP SMC

Raw Sample Relinquished by: JH WCI

TOTAL VOLATILE SOLIDS 160.4

TEMP1 IN: 104 °C 03/24/2025 16:25 **TEMP1 OUT:** 103 °C 03/25/2025 08:00
TEMP2 IN: 104 °C 03/25/2025 08:30 **TEMP2 OUT:** 103 °C 03/25/2025 10:00
TEMP3 IN: 550 °C 03/25/2025 10:30 **TEMP3 OUT:** 540 °C 03/25/2025 11:30
TEMP4 IN: 550 °C 03/25/2025 12:00 **TEMP4 OUT:** 540 °C 03/25/2025 13:30

Run Number: LB135162

SUPERVISOR: Iwona

ANALYST: jignesh

BalanceID: WC SC-6

OvenID: WC OVEN-1

Dish #	Lab ID	Empty Dish Weight (g)	Final Empty Dish Weight (g)	Empty Dish + Sample Weight (g)	1st Dish + SampleWt Drying @103-@105°C (g)	Final Dish + SampleWt Drying @103-@105°C (g)	Dish + Samplewt Drying @550 (±50) °C (g)	Final Dish + Samplewt Drying @550 (±50) °C (g)	Weight Diff (g)	Result (%)
1	LB135162BL	96.3021	96.3021	96.3021	96.3021	96.3021	96.3021	96.3021	0.0000	0
2	Q1626-01	55.8868	55.8868	76.7467	75.6709	75.6709	75.1277	75.1277	0.5432	2.7
3	Q1626-01DUP	59.3954	59.3954	81.6202	80.5490	80.549	79.9890	79.9890	0.5600	2.6
4	Q1632-01	82.3405	82.3405	100.1333	98.6953	98.6953	97.9036	97.9036	0.7917	4.8

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

Weight D = C - B

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

WORKLIST(Hardcopy Internal Chain)

W3135162

WorkList Name : TVS Q1626 S

WorkList ID : 188482

Department : Wet-Chemistry

Date : 03-24-2025 11:00:28

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1626-01	CO-32-1	Solid	TVS	Cool 4 deg C	WALS01	F11	03/21/2025	160.4
Q1632-01	PIER-1-2	Solid	TVS	Cool 4 deg C	PSEG03	I41	03/24/2025	160.4

Date/Time 03/24/25 13:30
Raw Sample Received by: HL WCL
Raw Sample Relinquished by: CP SR

Date/Time 03/24/25 16:30
Raw Sample Received by: CP SR
Raw Sample Relinquished by: HL WCL

Analytical Summary Report

Analysis Method: 9045D

Analyst By : jignesh

Parameter: Corrosivity

Supervisor Review By : Iwona

Run Number: LB135166

Slope : 99.2

BalanceID: WC SC-7

pH Meter ID : WC PH METER-1

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

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

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

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

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

Seq	LabID	DF	Matrix	Weight (gm)	Volume (ml)	Temperature (°C)	Result (pH)	Anal Date	Anal Time
1	CAL1	1	Water	NA	NA	20.2	4.01	03/24/2025	16:40
2	CAL2	1	Water	NA	NA	20.1	7.01	03/24/2025	16:41
3	CAL3	1	Water	NA	NA	20.2	10.02	03/24/2025	16:42
4	ICV	1	Water	NA	NA	20.2	7.00	03/24/2025	16:45
5	CCV1	1	Water	NA	NA	20.2	2.01	03/24/2025	16:49
6	Q1626-03	1	Solid	20.02	20	22.6	8.27	03/24/2025	16:55
7	Q1627-01	1	Solid	20.03	20	22.7	10.80	03/24/2025	17:05
8	Q1630-02	1	Solid	20.04	20	23.4	7.82	03/24/2025	17:10
9	Q1632-02	1	Solid	20.02	20	23.8	10.61	03/24/2025	17:15
10	Q1632-02DUP	1	Solid	20.03	20	23.9	10.62	03/24/2025	17:16
11	Q1635-04	1	Solid	20.02	20	23.2	8.04	03/24/2025	17:20
12	Q1636-04	1	Solid	20.03	20	23.2	5.95	03/24/2025	17:22
13	Q1636-08	1	Solid	20.04	20	23.3	5.89	03/24/2025	17:25
14	Q1636-12	1	Solid	20.02	20	23.1	6.56	03/24/2025	17:33
15	Q1636-16	1	Solid	20.02	20	23.2	6.05	03/24/2025	17:37
16	CCV2	1	Water	NA	NA	20.3	12.02	03/24/2025	17:40
17	Q1636-20	1	Solid	20.03	20	23.0	6.65	03/24/2025	17:47
18	CCV3	1	Water	NA	NA	20.2	2.01	03/24/2025	17:50

WORKLIST(Hardcopy Internal Chain)

135166

WorkList Name : corrosivity p1626

WorkList ID : 188485

Department : Wet-Chemistry

Date : 03-24-2025 11:02:42

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1626-03	CO-32-1	Solid	Corrosivity	Cool 4 deg C	WALS01	F11	03/21/2025	9045D
Q1627-01	GRID-LINE-1.2-NORTH	Solid	Corrosivity	Cool 4 deg C	TULL02	I41	03/20/2025	9045D
Q1630-02	VNJ-206	Solid	Corrosivity	Cool 4 deg C	PSEG03	H31	03/24/2025	9045D
Q1632-02	PIER-1-2	Solid	Corrosivity	Cool 4 deg C	PSEG03	I41	03/24/2025	9045D
Q1635-04	TP-2	Solid	Corrosivity	Cool 4 deg C	PSEG03	I41	03/24/2025	9045D
Q1636-04	WC-1	Solid	Corrosivity	Cool 4 deg C	PSEG03	I41	03/24/2025	9045D
Q1636-08	WC-2	Solid	Corrosivity	Cool 4 deg C	PSEG03	I41	03/24/2025	9045D
Q1636-12	WC-3	Solid	Corrosivity	Cool 4 deg C	PSEG03	I41	03/24/2025	9045D
Q1636-16	WC-4	Solid	Corrosivity	Cool 4 deg C	PSEG03	I41	03/24/2025	9045D
Q1636-20	WC-5	Solid	Corrosivity	Cool 4 deg C	PSEG03	I41	03/24/2025	9045D

Date/Time 03/24/25 16:25

Raw Sample Received by: [Signature]

Raw Sample Relinquished by: [Signature]

Date/Time 03/24/25

Raw Sample Received by: [Signature]

Raw Sample Relinquished by: [Signature]

Extraction and Analytical Summary Report

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

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

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

QC Batch# LB135168

Test: Oil and Grease

Analysis Date: 03/25/2025

Chemicals Used:

Chemical Name	Chemical Lot #
HEXANE	W3177
pH Paper 0-14	NA
Sodium Sulfate	EP2595
1:1 HCL	NA
Silica Gel	NA
Sand	E2865

Standards Used:

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

BALANCE CALIBRATION / OVEN Dessicator Data

Analytical Balance ID # : WC SC-6

Before Analysis

0.0020 gram Balance: 0.0018 (0.0018-0.0022) In OVEN TEMP1 : 70 °C Dessicator Time In1 : 10:21

1.0000 gram Balance: 1.0005 (0.9950-1.0050) In Time1: 09:30

Bal Check Time: 08:20 Out OVEN TEMP1: 70 °C Dessicator Time Out1: 11:00

Out Time1: 10:20

After Analysis

0.0020 gram Balance: 0.0019 (0.0018-0.0022) In OVEN TEMP2 : 71 °C Dessicator Time In2 : 12:01

1.0000 gram Balance: 1.0004 (0.9950-1.0050) In Time2: 11:30

Bal Check Time: 12:36 Out OVEN TEMP2: 71 °C Dessicator Time Out2: 12:35

Out Time2: 12:00

WORKLIST(Hardcopy Internal Chain)

135168

WorkList Name : oil & grease Q1609

WorkList ID : 188501

Department : Wet-Chemistry

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

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

Date/Time 03/25/25 08:10

Raw Sample Received by: [Signature]

Raw Sample Relinquished by: [Signature]

Date/Time 03/25/25 13:13

Raw Sample Received by: [Signature]

Raw Sample Relinquished by: [Signature]

Analysis Method: 9034

ANALYST: rubina

Parameter: Reactive Sulfide

SUPERVISOR REVIEW BY: Iwona

Run Number: LB135169

Constant: 16000

Normality1: 0.025

Normality2: 0.025

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

Seq	Lab ID	True Value (mg/l)	DF	Initial Weight (g)	Final Volume (ml)	T1 (ml)	T2 Initial	T2 Final	T2 Diff. (ml)	T1 - T2 Diff (mL)	Value Corrected With Blank	Result (ppm)	Anal Date	Anal Time
1	PB167287BL		1	5.00	50	2.00	0.00	1.92	1.92	0.08	0.00	0.00	03/25/2025	11:30
2	Q1626-03		1	5.02	50	2.00	0.00	1.90	1.90	0.10	0.02	1.59	03/25/2025	11:33
3	Q1626-03DUP		1	5.02	50	2.00	0.00	1.90	1.90	0.10	0.02	1.59	03/25/2025	11:36
4	Q1627-01		1	5.07	50	2.00	0.00	1.84	1.84	0.16	0.08	6.31	03/25/2025	11:38
5	Q1630-02		1	5.04	50	2.00	0.00	1.88	1.88	0.12	0.04	3.17	03/25/2025	11:41
6	Q1632-02		1	5.04	50	2.00	0.00	1.90	1.90	0.10	0.02	1.59	03/25/2025	11:44
7	Q1633-01		1	5.08	50	2.00	0.00	1.88	1.88	0.12	0.04	3.15	03/25/2025	11:46
8	Q1635-04		1	5.05	50	2.00	0.00	1.86	1.86	0.14	0.06	4.75	03/25/2025	11:48
9	Q1636-04		1	5.05	50	2.00	0.00	1.86	1.86	0.14	0.06	4.75	03/25/2025	11:50
10	Q1636-08		1	5.03	50	2.00	0.00	1.88	1.88	0.12	0.04	3.18	03/25/2025	11:53
11	Q1636-12		1	5.05	50	2.00	0.00	1.90	1.90	0.10	0.02	1.58	03/25/2025	11:55
12	Q1636-16		1	5.08	50	2.00	0.00	1.90	1.90	0.10	0.02	1.57	03/25/2025	11:58

T1 = Titrant1

T2 = Titrant2

T2 Diff = T2 Final - T2 Initial

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

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

Analysis Method: 9034

Parameter: Reactive Sulfide

Run Number: LB135169

ANALYST: rubina

SUPERVISOR REVIEW BY: Iwona

Constant: 16000

Normality1: 0.025

Normality2: 0.025

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

Seq	Lab ID	True Value (mg/l)	DF	Initial Weight (g)	Final Volume (ml)	T1 (ml)	T2 Initial	T2 Final	T2 Diff. (ml)	T1 - T2 Diff (mL)	Value Corrected With Blank	Result (ppm)	Anal Date	Anal Time
13	Q1636-20		1	5.07	50	2.00	0.00	1.88	1.88	0.12	0.04	3.16	03/25/2025	12:00

T1 = Titrant1

T2 = Titrant2

T2 Diff = T2 Final - T2 Initial

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

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

Analytical Summary Report

Analysis Method: 9095B

Reviewed By: rubina

Parameter: Paint Filter

Supervisor Review By: Iwona

Run Number: LB135171

BalanceID: WC SC-7

Seq	LabID	ClientID	Dilution	Weight (g)	Inst. Conc (ml/100g)	Anal Date	Anal Time
1	Q1624-01	OK-01-03212025	1	100.03	0.00	03/25/2025	09:30
2	Q1626-01	CO-32-1	1	100.07	0.00	03/25/2025	09:38
3	Q1630-01	VNJ-206	1	100.06	0.00	03/25/2025	09:45
4	Q1632-01	PIER-1-2	1	100.06	0.00	03/25/2025	09:52
5	Q1634-01	HR-01-032425	1	100.02	0.00	03/25/2025	10:00
6	Q1634-03	HR-04-032425	1	100.05	0.00	03/25/2025	10:08
7	Q1635-01	TP-2	1	100.05	0.00	03/25/2025	10:15
8	Q1635-01DUP	TP-2DUP	1	100.05	0.00	03/25/2025	10:23

WORKLIST(Hardcopy Internal Chain)

6135171

WorkList Name : PF-3-24

WorkList ID : 188499

Department : Wet-Chemistry

Date : 03-24-2025 16:25:23

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1624-01 B	OK-01-03212025	Solid	Paint Filter	Cool 4 deg C	PSEG05	I11	03/21/2025	9095B
Q1626-01 B	CO-32-1	Solid	Paint Filter	Cool 4 deg C	WALS01	F11	03/21/2025	9095B
Q1630-01 D	VNJ-206	Solid	Paint Filter	Cool 4 deg C	PSEG03	H31	03/24/2025	9095B
Q1632-01 B	PIER-1-2	Solid	Paint Filter	Cool 4 deg C	PSEG03	I41	03/24/2025	9095B
Q1634-01 F	HR-01-032425	Solid	Paint Filter	Cool 4 deg C	PSEG05	I31	03/24/2025	9095B
Q1634-03 C	HR-04-032425	Solid	Paint Filter	Cool 4 deg C	PSEG05	I31	03/24/2025	9095B
Q1635-01 A	TP-2	Solid	Paint Filter	Cool 4 deg C	PSEG03	I41	03/24/2025	9095B

Date/Time 03/25/2025 08:15
Raw Sample Received by: RM
Raw Sample Relinquished by: Mue

Date/Time 03/25/2025 10:10
Raw Sample Received by: [Signature]
Raw Sample Relinquished by: RTH (w/c)

LB135176

Test results

Aquakem 7.2AQ1

Page: 1

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

3/25/2025 12:41

Reviewed by : RM

Instrument ID : Konelab

Test: Ammonia-N

Sample Id	Result	Dil. 1 +	Response	Errors
ICV1	1.041	0.0	0.194	
ICB1	0.003	0.0	0.025	
CCV1	1.001	0.0	0.187	
CCB1	0.006	0.0	0.025	
RL CHECK	0.068	0.0	0.035	
PB167248BL	-0.004	0.0	0.024	
PB167248BS	1.058	0.0	0.197	
Q1604-012	0.060	0.0	0.034	
Q1604-01DUP	0.065	0.0	0.035	
Q1604-01MS	1.036	0.0	0.193	
Q1604-01MSD	0.991	0.0	0.186	
Q1606-11	2.419	0.0	0.418	
Q1625-01	-0.003	0.0	0.024	
RL CHECK.	0.091	0.0	0.039	
CCV2	0.983	0.0	0.184	
CCB2	0.037	0.0	0.030	
PB167281BL	0.033	0.0	0.030	
PB167281BS	1.062	0.0	0.197	
Q1626-01	0.016	0.0	0.027	
Q1632-01	0.014	0.0	0.027	
Q1632-01DUP	0.016	0.0	0.027	
Q1632-01MS	1.035	0.0	0.193	
Q1632-01MSD	1.031	0.0	0.192	
CCV3	1.027	0.0	0.192	
CCB3	0.029	0.0	0.029	
Q1606-11DLX2	1.177	0.0	0.216	
CCV4	0.978	0.0	0.184	
CCB4	-0.004	0.0	0.024	

68% (50-150)
03/25/2025
RM

Test limit high

91% (50-150)
03/25/2025
RM

03/25/2025
RM

N 28
Mean 0.545
SD 0.6218
CV% 114.07

Aquakem v. 7.2AQ1

Results from time period:

Tue Mar 25 10:34:39 2025

Tue Mar 25 12:35:44 2025

Sample Id	Sam/Ctr/c	Test short r	Test type	Result	Result unit	Result date and time	Stat
0.0PPM	A	Ammonia-† P		0.0014	mg/l	3/25/2025 10:34:39	
0.1PPM	A	Ammonia-† P		0.1175	mg/l	3/25/2025 10:34:40	
0.2PPM	A	Ammonia-† P		0.1904	mg/l	3/25/2025 10:34:41	
0.4PPM	A	Ammonia-† P		0.4057	mg/l	3/25/2025 10:34:42	
1.0PPM	A	Ammonia-† P		0.9982	mg/l	3/25/2025 10:34:43	
1.3PPM	A	Ammonia-† P		1.2939	mg/l	3/25/2025 10:34:44	
2.0PPM	A	Ammonia-† P		2.0261	mg/l	3/25/2025 10:34:45	
ICV1	S	Ammonia-† P		1.0409	mg/l	3/25/2025 11:28:43	
ICB1	S	Ammonia-† P		0.0031	mg/l	3/25/2025 11:28:46	
CCV1	S	Ammonia-† P		1.0009	mg/l	3/25/2025 11:28:47	
CCB1	S	Ammonia-† P		0.0059	mg/l	3/25/2025 11:28:49	
RL CHECK	S	Ammonia-† P		0.0675	mg/l	3/25/2025 11:28:51	
PB167248BL	S	Ammonia-† P		-0.0039	mg/l	3/25/2025 11:28:54	
PB167248BS	S	Ammonia-† P		1.0579	mg/l	3/25/2025 11:39:27	
Q1604-02	S	Ammonia-† P		0.0596	mg/l	3/25/2025 11:39:30	
Q1604-02DUP	S	Ammonia-† P		0.0647	mg/l	3/25/2025 11:39:31	
Q1604-02MS	S	Ammonia-† P		1.0359	mg/l	3/25/2025 11:39:33	
Q1604-02MSD	S	Ammonia-† P		0.9914	mg/l	3/25/2025 11:39:34	
Q1606-11	S	Ammonia-† P		2.4188	mg/l	3/25/2025 11:39:35	
Q1625-01	S	Ammonia-† P		-0.0031	mg/l	3/25/2025 11:39:37	
RL CHECK	S	Ammonia-† P		0.0914	mg/l	3/25/2025 12:28:25	
CCV2	S	Ammonia-† P		0.9832	mg/l	3/25/2025 12:28:26	
CCB2	S	Ammonia-† P		0.0374	mg/l	3/25/2025 12:28:27	
PB167281BL	S	Ammonia-† P		0.0327	mg/l	3/25/2025 12:28:28	
PB167281BS	S	Ammonia-† P		1.0616	mg/l	3/25/2025 12:28:29	
Q1626-01	S	Ammonia-† P		0.0155	mg/l	3/25/2025 12:28:30	
Q1632-01	S	Ammonia-† P		0.0137	mg/l	3/25/2025 12:28:31	
Q1632-01DUP	S	Ammonia-† P		0.0158	mg/l	3/25/2025 12:28:32	
Q1632-01MS	S	Ammonia-† P		1.0348	mg/l	3/25/2025 12:28:33	
Q1632-01MSD	S	Ammonia-† P		1.0312	mg/l	3/25/2025 12:28:34	
CCV3	S	Ammonia-† P		1.0267	mg/l	3/25/2025 12:28:35	
CCB3	S	Ammonia-† P		0.0288	mg/l	3/25/2025 12:28:36	
Q1606-11DLX2	S	Ammonia-† P		1.1767	mg/l	3/25/2025 12:35:40	
CCV4	S	Ammonia-† P		0.9776	mg/l	3/25/2025 12:35:42	
CCB4	S	Ammonia-† P		-0.0044	mg/l	3/25/2025 12:35:43	

Calibration results

Aquakem 7.2AQ1

Page:

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

3/25/2025 10:47

Reviewed by : RM

Instrument ID : Konelab

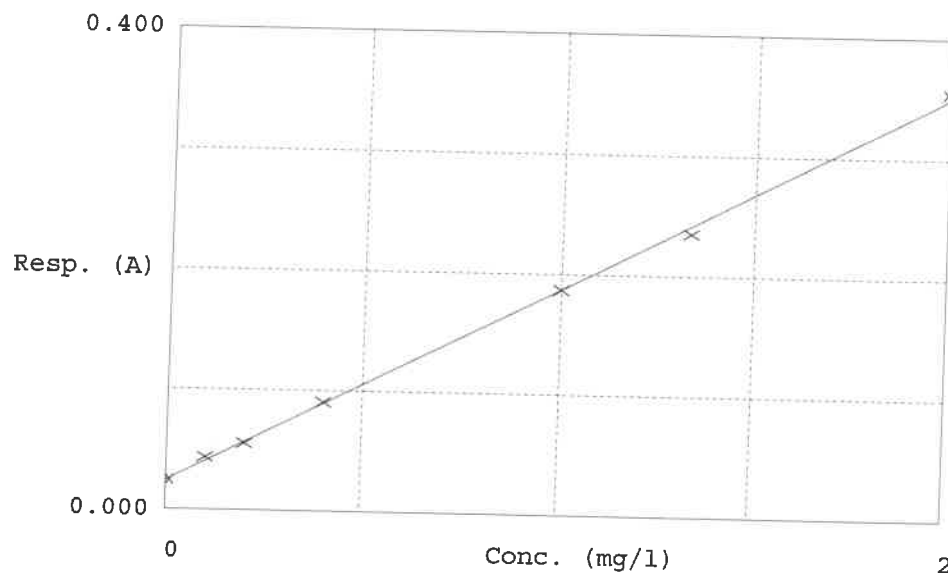
Test Ammonia-N

Accepted 3/25/2025 10:47

Factor 6.139
Bias 0.024

Coeff. of det. 0.999207

Errors



	Calibrator	Response	Calc. con.	Conc.	Errors
1	0.00PPM	0.025	0.0014	0.0000	
2	NH3-2PPM	0.043	0.1175	0.1000	175
3	NH3-2PPM	0.055	0.1904	0.2000	-0.8
4	NH3-2PPM	0.090	0.4057	0.4000	1.4
5	NH3-2PPM	0.187	0.9982	1.0000	-0.2
6	NH3-2PPM	0.235	1.2939	1.3333	-0.5
7	NH3-2PPM	0.354	2.0261	2.0000	1.3

03/25/2025
RM

Analytical Summary Report

Analysis Method: SM5220 D

ANALYST: Niha

Parameter: COD

SUPERVISOR REVIEW BY: Iwona

Run Number: LB135178

Reagent/Standard	Lot/Log #
COD ICV-LCS std, 50ppm	WP111522
COD calibration std. 100 ppm	WP111519
COD calibration std. 10 ppm	WP111517
COD calibration std. 150 ppm	WP111520
COD calibration std. 50 ppm	WP111518
COD calibration std. 0 ppm	WP111516
COD ICV-LCS std, 50ppm	WP112412
COD CCV std, 50ppm	WP112411
COD Digestion Vials Low Level 0-150Mg/L	W3127

Temp In (C): 148	Date In: 03/25/2025	Time In: 10:05
Temp Out (C): 150	Date Out: 03/25/2025	Time Out: 12:05

Intercept: 0.1675

Slope: 1.0102

Regression: 1

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

Analytical Summary Report

Analysis Method: SM5220 D

ANALYST: Niha

Parameter: COD

SUPERVISOR REVIEW BY: Iwona

Run Number: LB135178

Seq	Lab ID	True Value (mg/l)	Initial Weight (g)	Final Vol (ml)	DF	MATRIX	Reading	Result	AnalDate	AnalTime
1	ICV	50	NA	NA	1	Water	50.000	49.329	01/22/2025	13:32
2	ICB		NA	NA	1	Water	0.000	-0.166	01/22/2025	13:33
3	CCV1	50	NA	NA	1	Water	51.000	50.319	03/25/2025	15:05
4	CCB1		NA	NA	1	Water	0.000	-0.166	03/25/2025	15:05
5	LB135178BL		1.0	50	1	Solid	0.000	-0.166	03/25/2025	15:06
6	LB135178BS	50	1.0	50	1	Solid	50.000	49.329	03/25/2025	15:06
7	Q1626-01		1.02	50	5	Solid	30.000	29.531	03/25/2025	15:07
8	Q1632-01		1.04	50	1	Solid	42.000	41.410	03/25/2025	15:07
9	Q1632-01DUP		1.03	50	1	Solid	44.000	43.390	03/25/2025	15:08
10	Q1632-01MS	50	1.02	50	1	Solid	90.000	88.925	03/25/2025	15:08
11	Q1632-01MSD	50	1.02	50	1	Solid	88.000	86.946	03/25/2025	15:09
12	CCV2	50	NA	NA	1	Water	50.000	49.329	03/25/2025	15:09
13	CCB2		NA	NA	1	Water	0.000	-0.166	03/25/2025	15:10

WORKLIST(Hardcopy Internal Chain)

LB135178

WorkList Name : COD S-03252025

WorkList ID : 188516

Department : Wet-Chemistry

Date : 03-25-2025 08:40:24

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1626-01	CO-32-1	Solid	COD	Cool 4 deg C	WALS01	F11	03/21/2025	SM5220 D
Q1632-01	PIER-1-2	Solid	COD	Cool 4 deg C	PSEG03	I41	03/24/2025	SM5220 D

Date/Time 03-25-2025 09:00

Raw Sample Received by: NF (wc)

Raw Sample Relinquished by: NF (wc)

Date/Time 03-25-2025 12:00

Raw Sample Received by: NF (wc)

Raw Sample Relinquished by: NF (wc)

Test results

Aquakem 7.2AQ1

Page: 1

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

Reviewed by : NF

Instrument ID : Konelab

3/25/2025 15:58

Test: Total CN

Sample Id	Result	Dil. 1 +	Response	Errors
ICV1	93.626	0.0	0.078	
ICB1	0.793	0.0	0.000	
CCV1	241.892	0.0	0.202	
CCB1	0.846	0.0	0.001	
PB167303BL	0.797	0.0	0.000	
Q1625-01	0.832	0.0	0.001	
Q1625-01DUP	0.737	0.0	0.000	
PB167300BL	0.010	0.0	-0.000	
Q1619-06	0.263	0.0	0.000	
Q1619-06DUP	0.279	0.0	0.000	
Q1619-08	0.123	0.0	-0.000	
Q1619-10	0.480	0.0	0.000	
Q1619-12	0.565	0.0	0.000	
Q1619-14	0.845	0.0	0.001	
CCV2	241.112	0.0	0.201	
CCB2	0.955	0.0	0.001	
Q1626-03	0.684	0.0	0.000	
Q1627-01	0.868	0.0	0.001	
Q1630-02	1.053	0.0	0.001	
Q1632-02	1.007	0.0	0.001	
Q1633-01	1.047	0.0	0.001	
Q1635-04	1.035	0.0	0.001	
Q1636-04	0.827	0.0	0.001	
Q1636-08	0.657	0.0	0.000	
Q1636-12	0.692	0.0	0.000	
Q1636-16	1.042	0.0	0.001	
CCV3	242.478	0.0	0.202	
CCB3	1.038	0.0	0.001	
Q1636-20	0.801	0.0	0.000	
CCV4	243.967	0.0	0.204	
CCB4	0.627	0.0	0.000	
N	31			
Mean	34.902			
SD	82.8613			
CV%	237.41			

Aquakem v. 7.2AQ1

Results from time period:

Tue Mar 25 14:39:25 2025

Tue Mar 25 15:56:54 2025

Sample Id	Sam/Ctr/cf	Test short r	Test type	Result	Result unit	Result date and time	Stat
0.0PPBCN	A	Total CN	P	1.0177	µg/l	3/25/2025 14:58:47	
5.0PPBCN	A	Total CN	P	5.0262	µg/l	3/25/2025 14:58:48	
10PPBCN	A	Total CN	P	10.3927	µg/l	3/25/2025 14:58:49	
50PPBCN	A	Total CN	P	46.959	µg/l	3/25/2025 14:58:50	
100PPBCN	A	Total CN	P	99.522	µg/l	3/25/2025 14:58:51	
250PPBCN	A	Total CN	P	253.3815	µg/l	3/25/2025 14:58:52	
500PPBCN	A	Total CN	P	498.7008	µg/l	3/25/2025 14:58:53	
ICV1	S	Total CN	P	93.6258	µg/l	3/25/2025 15:30:36	
ICB1	S	Total CN	P	0.7928	µg/l	3/25/2025 15:30:37	
CCV1	S	Total CN	P	241.8915	µg/l	3/25/2025 15:30:40	
CCB1	S	Total CN	P	0.8464	µg/l	3/25/2025 15:30:41	
PB167303BL	S	Total CN	P	0.7972	µg/l	3/25/2025 15:30:43	
Q1625-01	S	Total CN	P	0.8321	µg/l	3/25/2025 15:30:45	
Q1625-01DUP	S	Total CN	P	0.7369	µg/l	3/25/2025 15:38:09	
PB167300BL	S	Total CN	P	0.0105	µg/l	3/25/2025 15:38:13	
Q1619-06	S	Total CN	P	0.2634	µg/l	3/25/2025 15:38:14	
Q1619-06DUP	S	Total CN	P	0.2786	µg/l	3/25/2025 15:38:15	
Q1619-08	S	Total CN	P	0.1234	µg/l	3/25/2025 15:38:16	
Q1619-10	S	Total CN	P	0.4799	µg/l	3/25/2025 15:38:17	
Q1619-12	S	Total CN	P	0.5654	µg/l	3/25/2025 15:38:18	
Q1619-14	S	Total CN	P	0.8451	µg/l	3/25/2025 15:38:19	
CCV2	S	Total CN	P	241.1122	µg/l	3/25/2025 15:45:44	
CCB2	S	Total CN	P	0.9552	µg/l	3/25/2025 15:45:45	
Q1626-03	S	Total CN	P	0.6839	µg/l	3/25/2025 15:45:46	
Q1627-01	S	Total CN	P	0.8678	µg/l	3/25/2025 15:45:47	
Q1630-02	S	Total CN	P	1.0532	µg/l	3/25/2025 15:45:48	
Q1632-02	S	Total CN	P	1.0071	µg/l	3/25/2025 15:45:49	
Q1633-01	S	Total CN	P	1.0469	µg/l	3/25/2025 15:45:50	
Q1635-04	S	Total CN	P	1.0347	µg/l	3/25/2025 15:45:51	
Q1636-04	S	Total CN	P	0.8272	µg/l	3/25/2025 15:45:52	
Q1636-08	S	Total CN	P	0.6565	µg/l	3/25/2025 15:53:17	
Q1636-12	S	Total CN	P	0.6917	µg/l	3/25/2025 15:53:18	
Q1636-16	S	Total CN	P	1.0417	µg/l	3/25/2025 15:53:19	
CCV3	S	Total CN	P	242.4776	µg/l	3/25/2025 15:53:22	
CCB3	S	Total CN	P	1.0381	µg/l	3/25/2025 15:53:23	
Q1636-20	S	Total CN	P	0.801	µg/l	3/25/2025 15:53:24	
CCV4	S	Total CN	P	243.9665	µg/l	3/25/2025 15:53:26	
CCB4	S	Total CN	P	0.627	µg/l	3/25/2025 15:56:54	

=====
Calibration results Aquakem 7.2AQ1 Page: 1
CHEMTECH CONSULTING GROUP INC
284 Sheffield Street, Mountainside, NJ 07092
3/25/2025 14:59 Reviewed by : NF Instrument ID : Konelab

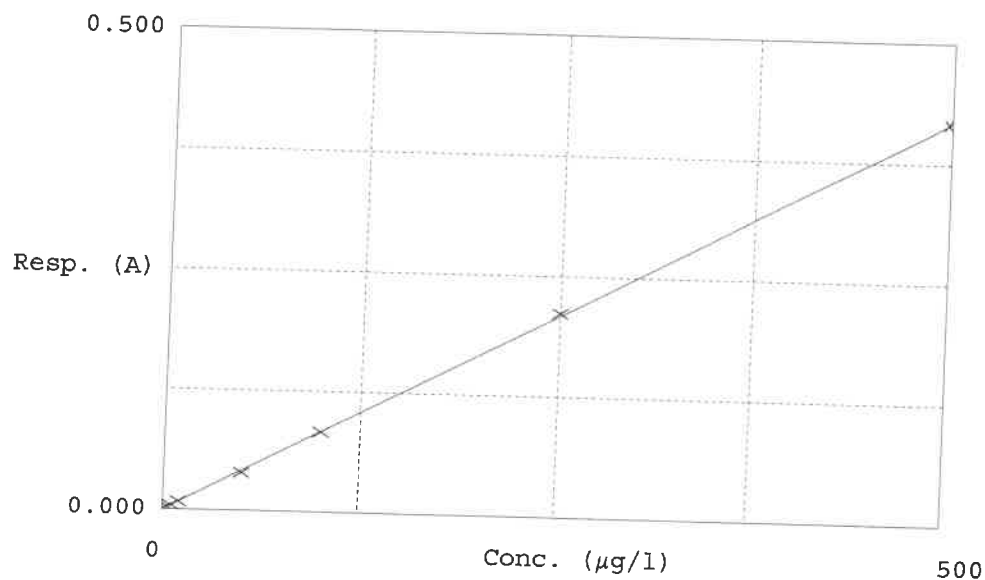
Test Total CN

Accepted 3/25/2025 14:59

Factor 1197
Bias 0

Coeff. of det. 0.999884

Errors



	Calibrator	Response	Calc. con.	Conc.	Re Errors
1	0.0PPBCN	0.001	1.0177	0.0000	
2	5.0PPBCN	0.004	5.0262	5.0000	
3	10PPBCN	0.008	10.3927	10.0000	0.5
4	50PPBCN	0.039	46.9590	50.0000	3.9
5	100PPBCN	0.083	99.5220	100.0000	-6.1
6	250PPBCN	0.211	253.3815	250.0000	-0.5
7	500PPBCN	0.416	498.7008	500.0000	1.4
					-0.3

NF
03.25.2025

Test results

Aquakem 7.2AQ1

Page: 1

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

3/25/2025 16:47

Reviewed by : NF Instrument ID : Konelab

Test: Total CN

Sample Id	Result	Dil. 1 +	Response	Errors
ICV1	95.540	0.0	0.080	
ICB1	0.597	0.0	0.000	
CCV1	244.344	0.0	0.204	
CCB1	0.741	0.0	0.000	
PB167306BL	0.078	0.0	-0.000	
PB167306BS	93.887	0.0	0.078	
LOWPB167306	10.467	0.0	0.009	
HIGHPB167306	483.868	0.0	0.404	
Q1626-01	0.637	0.0	0.000	
Q1626-01DUP	0.821	0.0	0.001	
Q1626-01MS	33.301	0.0	0.028	
Q1626-01MSD	33.269	0.0	0.028	
CCV2	246.579	0.0	0.206	
CCB2	0.725	0.0	0.000	

104% (90-110) NF
96% 03.25.2025

N 14
Mean 88.918
SD 142.5627
CV% 160.33

Aquakem v. 7.2AQ1

Results from time period:

Tue Mar 25 14:39:25 2025

Tue Mar 25 16:45:56 2025

Sample Id	Sam/Ctr/c	Test short r	Test type	Result	Result unit	Result date and time
0.0PPBCN	A	Total CN	P	1.0177	µg/l	3/25/2025 14:58:47
5.0PPBCN	A	Total CN	P	5.0262	µg/l	3/25/2025 14:58:48
10PPBCN	A	Total CN	P	10.3927	µg/l	3/25/2025 14:58:49
50PPBCN	A	Total CN	P	46.959	µg/l	3/25/2025 14:58:50
100PPBCN	A	Total CN	P	99.522	µg/l	3/25/2025 14:58:51
250PPBCN	A	Total CN	P	253.3815	µg/l	3/25/2025 14:58:52
500PPBCN	A	Total CN	P	498.7008	µg/l	3/25/2025 14:58:53
ICV1	S	Total CN	P	95.5402	µg/l	3/25/2025 16:26:56
ICB1	S	Total CN	P	0.5969	µg/l	3/25/2025 16:26:57
CCV1	S	Total CN	P	244.3438	µg/l	3/25/2025 16:26:59
CCB1	S	Total CN	P	0.7408	µg/l	3/25/2025 16:27:01
PB167306BL	S	Total CN	P	0.0777	µg/l	3/25/2025 16:27:04
PB167306BS	S	Total CN	P	93.8875	µg/l	3/25/2025 16:27:05
LOWPB167306	S	Total CN	P	10.4672	µg/l	3/25/2025 16:34:29
HIGHPB167306	S	Total CN	P	483.8675	µg/l	3/25/2025 16:34:32
Q1626-01	S	Total CN	P	0.6368	µg/l	3/25/2025 16:34:34
Q1626-01DUP	S	Total CN	P	0.8209	µg/l	3/25/2025 16:34:36
Q1626-01MS	S	Total CN	P	33.3006	µg/l	3/25/2025 16:34:38
Q1626-01MSD	S	Total CN	P	33.269	µg/l	3/25/2025 16:42:03
CCV2	S	Total CN	P	246.5791	µg/l	3/25/2025 16:42:10
CCB2	S	Total CN	P	0.7247	µg/l	3/25/2025 16:45:56

Calibration results

Aquakem 7.2AQ1

Page: 1

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

3/25/2025 14:59

Reviewed by : NF

Instrument ID : Konelab

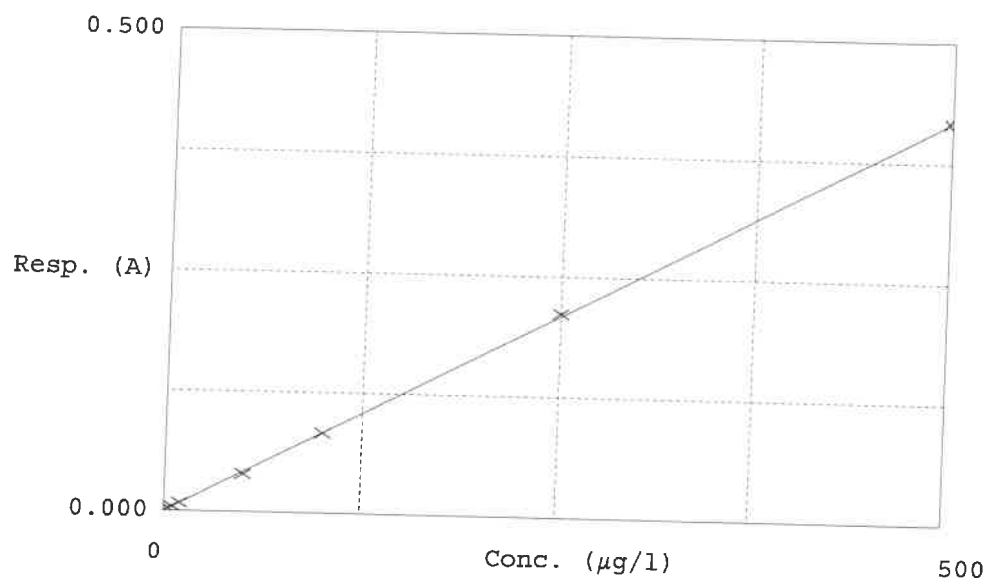
Test Total CN

Accepted 3/25/2025 14:59

Factor 1197
Bias 0

Coeff. of det. 0.999884

Errors



	Calibrator	Response	Calc. con.	Conc.	Re Errors
1	0.0PPBCN	0.001	1.0177	0.0000	
2	5.0PPBCN	0.004	5.0262	5.0000	
3	10PPBCN	0.008	10.3927	10.0000	0.5
4	50PPBCN	0.039	46.9590	50.0000	3.9
5	100PPBCN	0.083	99.5220	100.0000	-6.1
6	250PPBCN	0.211	253.3815	250.0000	-0.5
7	500PPBCN	0.416	498.7008	500.0000	1.4
					-0.3

NF

03.25.2025

SOP ID : M3060A,7196A-Hex.Chromium-26

SDG No : N/A

Matrix : SOIL

Pipette ID : WC

Balance ID : WC SC-7

Hood ID : HOOD#3

Block ID : WC S-2, WC S-1

Weigh By : JP

Start Digest Date: 03/24/2025 Time : 10:15 Temp : 90 °C

End Digest Date: 03/24/2025 Time : 11:15 Temp : 95 °C

11.35
03/24/2025
12-35
90°C
93°C
JP

Digestion tube ID : M6054

Filter paper ID : 400213

pH Meter ID : WC pH meter-1

Block Thermometer ID : WC-Block#1

Prep Technician Signature: *JP*

Supervisor Signature: *12*

Standard Name	MLS USED	STD REF. # FROM LOG
PRE-DIGESTION SPIKE	2.0ML	WP111315
INSOLUBLE SPIKE	0.02GM	W2202
POST-DIGESTION SPIKE	2.0ML	WP111315
LCSS	1.0ML	WP111316
PBS003	50ML	W3112

Chemical Used	ML/SAMPLE USED	Lot Number
MAGNESIUM CHLORIDE	0.4GM	W3152
PHOSPHATE BUFFER	0.5ML	WP110498
HEX. DIGESTION SOLN.	50.0ML	WP112281
5M HNO3	5-7ML	WP110381
5N H2SO4	1-3ML	WP110380
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	Vol(ml)	Comment
CAL1	CAL1	2.5ML	W3112
CAL2	CAL2	0.2ML	WP112445
CAL3	CAL3	0.5ML	WP112445
CAL4	CAL4	1ML	WP112445
CAL5	CAL5	0.2ML	WP111315
CAL6	CAL6	1ML	WP111315
CAL7	CAL7	2.0ML	WP111315
ICV	ICV	1ML	WP111316
ICB	ICB	2.5ML	W3112
CCV	CCV	1ML	WP111315
CCB	CCB	2.5ML	W3112

Extraction Conformance/Non-Conformance Comments:

N/A

03/24/2025

JP

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

Lab Sample ID	Client Sample ID	Initial Weight (g)	Final Vol (ml)	pH	Sulfide	Oxidizing	Nitrate/ Nitrite	Comment	Prep Pos
PB167259BL	PBS259	2.50	100	N/A	N/A	N/A	N/A	N/A	N/A
PB167259BS	LCS259	2.50	100	N/A	N/A	N/A	N/A	N/A	N/A
Q1610-02	SOIL-PILE	2.55	100	N/A	N/A	N/A	N/A	N/A	N/A
Q1614-01	TR-04-032025	2.53	100	N/A	N/A	N/A	N/A	N/A	N/A
Q1614-01DUP	TR-04-032025DUP	2.53	100	N/A	N/A	N/A	N/A	N/A	N/A
Q1614-01MSPre	TR-04-032025MSPRE	2.54	100	N/A	N/A	N/A	N/A	N/A	N/A
Q1614-01MS2Ins	TR-04-032025MS2INS	2.53	100	N/A	N/A	N/A	N/A	N/A	N/A
Q1614-01MS3Post	TR-04-032025MS3POST	2.54	100	N/A	N/A	N/A	N/A	N/A	N/A
Q1619-05	TP-1	2.57	100	N/A	N/A	N/A	N/A	N/A	N/A
Q1619-07	TP-2	2.58	100	N/A	N/A	N/A	N/A	N/A	N/A
Q1619-09	TP-3	2.52	100	N/A	N/A	N/A	N/A	N/A	N/A
Q1619-11	TP-4	2.53	100	N/A	N/A	N/A	N/A	N/A	N/A
Q1619-13	TP-5	2.55	100	N/A	N/A	N/A	N/A	N/A	N/A
Q1624-01	OK-01-03212025	2.55	100	N/A	N/A	N/A	N/A	N/A	N/A
Q1626-01	CO-32-1	2.53	100	N/A	N/A	N/A	N/A	N/A	N/A
Q1630-01	VNJ-206	2.51	100	N/A	N/A	N/A	N/A	N/A	N/A

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

SDG No : N/A

Start Digest Date: 03/25/2025 Time : 08:50 Temp : 150 °C

Matrix : SOIL

End Digest Date: 03/25/2025 Time : 09:50 Temp : 160 °C

Pipette ID : WC

Balance ID : WC SC-7

Hood ID : HOOD#2

Digestion tube ID : M5595

Block Thermometer ID : WC CYANIDE

Block ID : WC-DIST-BLOCK-1

Filter paper ID : N/A

Prep Technician Signature: RM

Weigh By : RM

pH Meter ID : N/A

Supervisor Signature: 12

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

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

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

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
03/25/2025 10-00	RM (WC)	RM (WC)
	Preparation Group	Analysis Group

Lab Sample ID	Client Sample ID	Initial Weight (g)	Final Vol (ml)	pH	Sulfide	Oxidizing	Nitrate/ Nitrite	Comment	Prep Pos
PB167281BL	PBS281	1.00	50	N/A	N/A	N/A	N/A	AFTER ADDING 6N NAOH PH IS 9.5	N/A
PB167281BS	LCS281	1.00	50	N/A	N/A	N/A	N/A	AFTER ADDING 6N NAOH PH IS 9.5	N/A
Q1626-01	CO-32-1	1.02	50	N/A	N/A	N/A	N/A	AFTER ADDING 6N NAOH PH IS 9.5	N/A
Q1632-01	PIER-1-2	1.03	50	N/A	N/A	N/A	N/A	AFTER ADDING 6N NAOH PH IS 9.5	N/A
Q1632-01DUP	PIER-1-2DUP	1.03	50	N/A	N/A	N/A	N/A	AFTER ADDING 6N NAOH PH IS 9.5	N/A
Q1632-01MS	PIER-1-2MS	1.02	50	N/A	N/A	N/A	N/A	AFTER ADDING 6N NAOH PH IS 9.5	N/A
Q1632-01MSD	PIER-1-2MSD	1.03	50	N/A	N/A	N/A	N/A	AFTER ADDING 6N NAOH PH IS 9.5	N/A

SOP ID : M9030B-Sulfide-12

SDG No : N/A

Matrix : SOIL

Pipette ID : WC

Balance ID : WC SC-7

Hood ID : HOOD#1

Block ID : MC-1,MC-2

Weigh By : RM

Start Digest Date: 03/25/2025 Time : 09:20 Temp : N/A

End Digest Date: 03/25/2025 Time : 10:50 Temp : N/A

Digestion tube ID : M5595

Block Thermometer ID : N/A

Filter paper ID : N/A

Prep Technician Signature: RM

pH Meter ID : N/A

Supervisor Signature: 12

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

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

Extraction Conformance/Non-Conformance Comments:

03/25/2025 RM

N/A

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

Lab Sample ID	Client Sample ID	Initial Weight (g)	Final Vol (ml)	pH	Sulfide	Oxidizing	Nitrate/ Nitrite	Comment	Prep Pos
PB167287BL	PBS287	5.00	50	N/A	N/A	N/A	N/A	N/A	N/A
Q1626-03DUP	CO-32-1DUP	5.02	50	N/A	N/A	N/A	N/A	N/A	N/A
Q1626-03	CO-32-1	5.02	50	N/A	N/A	N/A	N/A	N/A	N/A
Q1627-01	GRID-LINE-1.2-NORTH	5.07	50	N/A	N/A	N/A	N/A	N/A	N/A
Q1630-02	VNJ-206	5.04	50	N/A	N/A	N/A	N/A	N/A	N/A
Q1632-02	PIER-1-2	5.04	50	N/A	N/A	N/A	N/A	N/A	N/A
Q1633-01	SLG	5.08	50	N/A	N/A	N/A	N/A	N/A	N/A
Q1635-04	TP-2	5.05	50	N/A	N/A	N/A	N/A	N/A	N/A
Q1636-04	WC-1	5.05	50	N/A	N/A	N/A	N/A	N/A	N/A
Q1636-08	WC-2	5.03	50	N/A	N/A	N/A	N/A	N/A	N/A
Q1636-12	WC-3	5.05	50	N/A	N/A	N/A	N/A	N/A	N/A
Q1636-16	WC-4	5.08	50	N/A	N/A	N/A	N/A	N/A	N/A
Q1636-20	WC-5	5.07	50	N/A	N/A	N/A	N/A	N/A	N/A

WORKLIST(Hardcopy Internal Chain)

WorkList Name : RSUL-3-24

WorkList ID : 188496

Department : Distillation

Date : 03-24-2025 16:21:50

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1626-03 β	CO-32-1	Solid	Reactive Sulfide	Cool 4 deg C	WALS01	F11	03/21/2025	9034
Q1627-01 β	GRID-LINE-1.2-NORTH	Solid	Reactive Sulfide	Cool 4 deg C	TULL02	I41	03/20/2025	9034
Q1630-02 β	VNJ-206	Solid	Reactive Sulfide	Cool 4 deg C	PSEG03	H31	03/24/2025	9034
Q1632-02 β	PIER-1-2	Solid	Reactive Sulfide	Cool 4 deg C	PSEG03	I41	03/24/2025	9034
Q1633-01 γ	SLG	Solid	Reactive Sulfide	Cool 4 deg C	PSEG03	I31	03/24/2025	9034
Q1635-04 α	TP-2	Solid	Reactive Sulfide	Cool 4 deg C	PSEG03	I41	03/24/2025	9034
Q1636-04 ϵ	WC-1	Solid	Reactive Sulfide	Cool 4 deg C	PSEG03	I41	03/24/2025	9034
Q1636-08 β	WC-2	Solid	Reactive Sulfide	Cool 4 deg C	PSEG03	I41	03/24/2025	9034
Q1636-12 β	WC-3	Solid	Reactive Sulfide	Cool 4 deg C	PSEG03	I41	03/24/2025	9034
Q1636-16 β	WC-4	Solid	Reactive Sulfide	Cool 4 deg C	PSEG03	I41	03/24/2025	9034
Q1636-20 β	WC-5	Solid	Reactive Sulfide	Cool 4 deg C	PSEG03	I41	03/24/2025	9034

Date/Time 03/25/2025 08:15
 Raw Sample Received by: RM (w4)
 Raw Sample Relinquished by: yd hooz

Date/Time 03/25/2025 10:40
 Raw Sample Received by: RM (w4)
 Raw Sample Relinquished by: RM (w4)

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

SDG No : N/A

Start Digest Date: 03/25/2025 Time : 11:30 Temp : N/A

Matrix : SOIL

End Digest Date: 03/25/2025 Time : 13:00 Temp : N/A

Pipette ID : N/A

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: NF

Weigh By : NF

pH Meter ID : N/A

Supervisor Signature: 12

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

Chemical Used	ML/SAMPLE USED	Lot Number
0.25N 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
03.25.2025, 13:15	NF/WC	NF/WC
Preparation Group	Analysis Group	

Lab Sample ID	Client Sample ID	Initial Weight (g)	Final Vol (ml)	pH	Sulfide	Oxidizing	Nitrate/ Nitrite	Comment	Prep Pos
PB167300BL	PBS300	5.00	50	N/A	N/A	N/A	N/A	N/A	N/A
Q1619-06DUP	TP-1DUP	5.01	50	N/A	N/A	N/A	N/A	N/A	N/A
Q1619-06	TP-1	5.03	50	N/A	N/A	N/A	N/A	N/A	N/A
Q1619-08	TP-2	5.04	50	N/A	N/A	N/A	N/A	N/A	N/A
Q1619-10	TP-3	5.01	50	N/A	N/A	N/A	N/A	N/A	N/A
Q1619-12	TP-4	5.04	50	N/A	N/A	N/A	N/A	N/A	N/A
Q1619-14	TP-5	5.03	50	N/A	N/A	N/A	N/A	N/A	N/A
Q1626-03	CO-32-1	5.04	50	N/A	N/A	N/A	N/A	N/A	N/A
Q1627-01	GRID-LINE-1.2-NORTH	5.03	50	N/A	N/A	N/A	N/A	N/A	N/A
Q1630-02	VNJ-206	5.01	50	N/A	N/A	N/A	N/A	N/A	N/A
Q1632-02	PIER-1-2	5.02	50	N/A	N/A	N/A	N/A	N/A	N/A
Q1633-01	SLG	5.02	50	N/A	N/A	N/A	N/A	N/A	N/A
Q1635-04	TP-2	5.04	50	N/A	N/A	N/A	N/A	N/A	N/A
Q1636-04	WC-1	5.02	50	N/A	N/A	N/A	N/A	N/A	N/A
Q1636-08	WC-2	5.04	50	N/A	N/A	N/A	N/A	N/A	N/A
Q1636-12	WC-3	5.02	50	N/A	N/A	N/A	N/A	N/A	N/A
Q1636-16	WC-4	5.01	50	N/A	N/A	N/A	N/A	N/A	N/A
Q1636-20	WC-5	5.00	50	N/A	N/A	N/A	N/A	N/A	N/A

WORKLIST(Hardcopy Internal Chain)

WorkList Name : RCN S-03252025

WorkList ID : 188519

Department : Distillation

Date : 03-25-2025 09:45:27

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1619-06	TP-1	Solid	Reactive Cyanide	Cool 4 deg C	PSEG03	I41	03/20/2025	9012B
Q1619-08	TP-2	Solid	Reactive Cyanide	Cool 4 deg C	PSEG03	I41	03/20/2025	9012B
Q1619-10	TP-3	Solid	Reactive Cyanide	Cool 4 deg C	PSEG03	I41	03/20/2025	9012B
Q1619-12	TP-4	Solid	Reactive Cyanide	Cool 4 deg C	PSEG03	I41	03/20/2025	9012B
Q1619-14	TP-5	Solid	Reactive Cyanide	Cool 4 deg C	PSEG03	I41	03/20/2025	9012B
Q1626-03	CO-32-1	Solid	Reactive Cyanide	Cool 4 deg C	PSEG03	I41	03/20/2025	9012B
Q1627-01	GRID-LINE-1.2-NORTH	Solid	Reactive Cyanide	Cool 4 deg C	WALS01	F11	03/21/2025	9012B
Q1630-02	VNJ-206	Solid	Reactive Cyanide	Cool 4 deg C	TULL02	I41	03/20/2025	9012B
Q1632-02	PIER-1-2	Solid	Reactive Cyanide	Cool 4 deg C	PSEG03	H31	03/24/2025	9012B
Q1633-01	SLG	Solid	Reactive Cyanide	Cool 4 deg C	PSEG03	I41	03/24/2025	9012B
Q1635-04	TP-2	Solid	Reactive Cyanide	Cool 4 deg C	PSEG03	I31	03/24/2025	9012B
Q1636-04	WC-1	Solid	Reactive Cyanide	Cool 4 deg C	PSEG03	I41	03/24/2025	9012B
Q1636-08	WC-2	Solid	Reactive Cyanide	Cool 4 deg C	PSEG03	I41	03/24/2025	9012B
Q1636-12	WC-3	Solid	Reactive Cyanide	Cool 4 deg C	PSEG03	I41	03/24/2025	9012B
Q1636-16	WC-4	Solid	Reactive Cyanide	Cool 4 deg C	PSEG03	I41	03/24/2025	9012B
Q1636-20	WC-5	Solid	Reactive Cyanide	Cool 4 deg C	PSEG03	I41	03/24/2025	9012B

Date/Time 03-25-2025, 10:30

Raw Sample Received by: WFWC

Raw Sample Relinquished by: WFWC

Date/Time 03-25-2025, 14:00

Raw Sample Received by: WFWC

Raw Sample Relinquished by: WFWC

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

SDG No : N/A

Start Digest Date: 03/25/2025 Time : 13:30 Temp : 123 °C

Matrix : SOIL

End Digest Date: 03/25/2025 Time : 15:00 Temp : 127 °C

Pipette ID : N/A

Balance ID : N/A

Hood ID : HOOD#1

Digestion tube ID : M5595

Block Thermometer ID : WC CYANIDE

Block ID : N/A

Filter paper ID : N/A

Prep Technician Signature: *Jo*

Weigh By : JP

pH Meter ID : N/A

Supervisor Signature: *12*

Standard Name	MLS USED	STD REF. # FROM LOG
LCSS	1.00ML	WP111296
MS/MSD SPIKE SOL.	0.40ML	WP111295
PBS003	50ML	W3112
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
50% v/v H2SO4	5.0ML	WP110391
51% w/v MgCL2	2.0ML	WP110390
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	Wt(g)/Vol(ml)	Comment
S0	S0	N/A	N/A
S5.0	S5.0	N/A	N/A
S10.0	S10.0	N/A	N/A
S100.0	S100.0	N/A	N/A
S250.0	S250.0	N/A	N/A
S500.0	S500.0	N/A	N/A
ICV	ICV	0.5ML	W3012
ICB	ICB	N/A	N/A
CCV	CCV	N/A	N/A
CCB	CCB	N/A	N/A
Midrange	Midrange	N/A	N/A
HIGHSTD	HIGHSTD	5.0ML	WP111295
LOWSTD	LOWSTD	0.1ML	WP111295

Extraction Conformance/Non-Conformance Comments:

N/A

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
03.25.2025, 15:15	<i>Jo</i> <i>WC</i>	<i>NFLWe</i>
	Preparation Group	Analysis Group

Lab Sample ID	Client Sample ID	Initial Weight (g)	Final Vol (ml)	pH	Sulfide	Oxidizing	Nitrate/Nitrite	Comment	Prep Pos
PB167306BL	PBS306	1.00	50	N/A	N/A	N/A	N/A	N/A	N/A
PB167306BS	LCS306	1.00	50	N/A	N/A	N/A	N/A	N/A	N/A
Q1626-01DUP	CO-32-1DUP	1.01	50	N/A	N/A	N/A	N/A	N/A	N/A
Q1626-01MS	CO-32-1MS	1.01	50	N/A	N/A	N/A	N/A	N/A	N/A
Q1626-01MSD	CO-32-1MSD	1.01	50	N/A	N/A	N/A	N/A	N/A	N/A
Q1626-01	CO-32-1	1.02	50	N/A	N/A	N/A	N/A	N/A	N/A

Instrument ID: FLAME

Daily Analysis Runlog For Sequence/QC Batch ID # LB135156

Review By	Iwona	Review On	3/24/2025 4:15:52 PM
Supervise By	jignesh	Supervise On	3/24/2025 4:16:36 PM
SubDirectory	LB135156	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	Q1610-02	SOIL-PILE	SAM	03/24/25 10:00		rubina	OK
2	Q1610-02DUP	SOIL-PILEDUP	DUP	03/24/25 10:08		rubina	OK
3	Q1610-03	SOIL-PILE	SAM	03/24/25 10:15		rubina	OK
4	Q1619-05	TP-1	SAM	03/24/25 10:22		rubina	OK
5	Q1619-06	TP-1	SAM	03/24/25 10:30		rubina	OK
6	Q1619-07	TP-2	SAM	03/24/25 10:37		rubina	OK
7	Q1619-08	TP-2	SAM	03/24/25 10:45		rubina	OK
8	Q1619-09	TP-3	SAM	03/24/25 10:52		rubina	OK
9	Q1619-10	TP-3	SAM	03/24/25 11:00		rubina	OK
10	Q1619-11	TP-4	SAM	03/24/25 11:07		rubina	OK
11	Q1619-12	TP-4	SAM	03/24/25 11:15		rubina	OK
12	Q1619-13	TP-5	SAM	03/24/25 11:22		rubina	OK
13	Q1619-14	TP-5	SAM	03/24/25 11:30		rubina	OK
14	Q1626-03	CO-32-1	SAM	03/24/25 11:38		rubina	OK
15	Q1627-01	GRID-LINE-1.2-NORT	SAM	03/24/25 11:45		rubina	OK

Instrument ID: SPECTROPHOTOMETER-1

Daily Analysis Runlog For Sequence/QC Batch ID # LB135159

Review By	rubina	Review On	3/24/2025 3:43:14 PM
Supervise By	Iwona	Supervise On	3/24/2025 4:00:50 PM
SubDirectory	LB135159	Test	Hexavalent Chromium
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	WP112371,WP110380,WP110381,WP111249		

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	CAL1	CAL1	CAL	03/24/25 15:00		rubina	OK
2	CAL2	CAL2	CAL	03/24/25 15:01		rubina	OK
3	CAL3	CAL3	CAL	03/24/25 15:02		rubina	OK
4	CAL4	CAL4	CAL	03/24/25 15:03		rubina	OK
5	CAL5	CAL5	CAL	03/24/25 15:04		rubina	OK
6	CAL6	CAL6	CAL	03/24/25 15:05		rubina	OK
7	CAL7	CAL7	CAL	03/24/25 15:06		rubina	OK
8	ICV	ICV	ICV	03/24/25 15:07		rubina	OK
9	ICB	ICB	ICB	03/24/25 15:08		rubina	OK
10	CCV1	CCV1	CCV	03/24/25 15:09		rubina	OK
11	CCB1	CCB1	CCB	03/24/25 15:10		rubina	OK
12	RL Check	RL Check	SAM	03/24/25 15:11		rubina	OK
13	PB167259BL	PB167259BL	MB	03/24/25 15:12		rubina	OK
14	PB167259BS	PB167259BS	LCS	03/24/25 15:13		rubina	OK
15	Q1610-02	SOIL-PILE	SAM	03/24/25 15:14		rubina	OK
16	Q1614-01	TR-04-032025	SAM	03/24/25 15:15		rubina	OK
17	Q1614-01DUP	TR-04-032025DUP	DUP	03/24/25 15:16		rubina	OK
18	Q1614-01MSPre	TR-04-032025MS	MS	03/24/25 15:17		rubina	OK

Instrument ID: SPECTROPHOTOMETER-1

Daily Analysis Runlog For Sequence/QC Batch ID # LB135159

Review By	rubina	Review On	3/24/2025 3:43:14 PM
Supervise By	Iwona	Supervise On	3/24/2025 4:00:50 PM
SubDirectory	LB135159	Test	Hexavalent Chromium
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	WP112371,WP110380,WP110381,WP111249		

19	Q1614-01MS2Ins	TR-04-032025MS	MS	03/24/25 15:18		rubina	OK
20	Q1614-01MS3Post	TR-04-032025MS	MS	03/24/25 15:19		rubina	OK
21	Q1619-05	TP-1	SAM	03/24/25 15:20		rubina	OK
22	Q1619-07	TP-2	SAM	03/24/25 15:21		rubina	OK
23	CCV2	CCV2	CCV	03/24/25 15:22		rubina	OK
24	CCB2	CCB2	CCB	03/24/25 15:23		rubina	OK
25	Q1619-09	TP-3	SAM	03/24/25 15:24		rubina	OK
26	Q1619-11	TP-4	SAM	03/24/25 15:25		rubina	OK
27	Q1619-13	TP-5	SAM	03/24/25 15:26		rubina	OK
28	Q1624-01	OK-01-03212025	SAM	03/24/25 15:27		rubina	OK
29	Q1626-01	CO-32-1	SAM	03/24/25 15:28		rubina	OK
30	Q1630-01	VNJ-206	SAM	03/24/25 15:29		rubina	OK
31	Q1619-09DL	TP-3DL	SAM	03/24/25 15:30		rubina	OK
32	Q1619-13DL	TP-5DL	SAM	03/24/25 15:31		rubina	OK
33	CCV3	CCV3	CCV	03/24/25 15:32		rubina	OK
34	CCB3	CCB3	CCB	03/24/25 15:33		rubina	OK

Instrument ID: WC SC-3

Daily Analysis Runlog For Sequence/QC Batch ID # LB135161

Review By	jignesh	Review On	3/25/2025 11:08:48 AM
Supervise By	Iwona	Supervise On	3/25/2025 12:00:39 PM
SubDirectory	LB135161	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	LB135161BL	LB135161BL	MB	03/24/25 12:00		jignesh	OK
2	Q1626-01	CO-32-1	SAM	03/24/25 12:00		jignesh	OK
3	Q1626-01DUP	CO-32-1DUP	DUP	03/24/25 12:00		jignesh	OK
4	Q1632-01	PIER-1-2	SAM	03/24/25 12:00		jignesh	OK

Instrument ID: WC SC-3

Daily Analysis Runlog For Sequence/QC Batch ID # LB135162

Review By	jignesh	Review On	3/25/2025 11:27:00 AM
Supervise By	Iwona	Supervise On	3/25/2025 12:01:00 PM
SubDirectory	LB135162	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	LB135162BL	LB135162BL	MB	03/24/25 16:25		jignesh	OK
2	Q1626-01	CO-32-1	SAM	03/24/25 16:25		jignesh	OK
3	Q1626-01DUP	CO-32-1DUP	DUP	03/24/25 16:25		jignesh	OK
4	Q1632-01	PIER-1-2	SAM	03/24/25 16:25		jignesh	OK

Instrument ID: WC PH METER-1

Daily Analysis Runlog For Sequence/QC Batch ID # LB135166

Review By	jignesh	Review On	3/25/2025 11:35:14 AM
Supervise By	Iwona	Supervise On	3/25/2025 11:59:08 AM
SubDirectory	LB135166	Test	Corrosivity
STD. NAME	STD REF.#		
ICAL Standard	N/A		
ICV Standard	N/A		
CCV Standard	N/A		
ICSA Standard	N/A		
CRI Standard	N/A		
LCS Standard	N/A		
Chk Standard	W3107,W3093,W3094,W3071,W3161,W3072		

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	CAL1	CAL1	CAL	03/24/25 16:40		Jignesh	OK
2	CAL2	CAL2	CAL	03/24/25 16:41		Jignesh	OK
3	CAL3	CAL3	CAL	03/24/25 16:42		Jignesh	OK
4	ICV	ICV	ICV	03/24/25 16:45		Jignesh	OK
5	CCV1	CCV1	CCV	03/24/25 16:49		Jignesh	OK
6	Q1626-03	CO-32-1	SAM	03/24/25 16:55		Jignesh	OK
7	Q1627-01	GRID-LINE-1.2-NORT	SAM	03/24/25 17:05		Jignesh	OK
8	Q1630-02	VNJ-206	SAM	03/24/25 17:10		Jignesh	OK
9	Q1632-02	PIER-1-2	SAM	03/24/25 17:15		Jignesh	OK
10	Q1632-02DUP	PIER-1-2DUP	DUP	03/24/25 17:16		Jignesh	OK
11	Q1635-04	TP-2	SAM	03/24/25 17:20		Jignesh	OK
12	Q1636-04	WC-1	SAM	03/24/25 17:22		Jignesh	OK
13	Q1636-08	WC-2	SAM	03/24/25 17:25		Jignesh	OK
14	Q1636-12	WC-3	SAM	03/24/25 17:33		Jignesh	OK
15	Q1636-16	WC-4	SAM	03/24/25 17:37		Jignesh	OK
16	CCV2	CCV2	CCV	03/24/25 17:40		Jignesh	OK
17	Q1636-20	WC-5	SAM	03/24/25 17:47		Jignesh	OK
18	CCV3	CCV3	CCV	03/24/25 17:50		Jignesh	OK

Instrument ID: WC SC-3

Daily Analysis Runlog For Sequence/QC Batch ID # LB135168

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

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

Instrument ID: TITRAMETRIC

Daily Analysis Runlog For Sequence/QC Batch ID # LB135169

Review By	rubina	Review On	3/25/2025 1:44:10 PM
Supervise By	Iwona	Supervise On	3/25/2025 1:45:06 PM
SubDirectory	LB135169	Test	Reactive Sulfide
STD. NAME	STD REF.#		
ICAL Standard	N/A		
ICV Standard	N/A		
CCV Standard	N/A		
ICSA Standard	N/A		
CRI Standard	N/A		
LCS Standard	N/A		
Chk Standard	W3105,W3114,W3149		

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	PB167287BL	PB167287BL	MB	03/25/25 11:30		rubina	OK
2	Q1626-03	CO-32-1	SAM	03/25/25 11:33		rubina	OK
3	Q1626-03DUP	CO-32-1DUP	DUP	03/25/25 11:36		rubina	OK
4	Q1627-01	GRID-LINE-1.2-NORT	SAM	03/25/25 11:38		rubina	OK
5	Q1630-02	VNJ-206	SAM	03/25/25 11:41		rubina	OK
6	Q1632-02	PIER-1-2	SAM	03/25/25 11:44		rubina	OK
7	Q1633-01	SLG	SAM	03/25/25 11:46		rubina	OK
8	Q1635-04	TP-2	SAM	03/25/25 11:48		rubina	OK
9	Q1636-04	WC-1	SAM	03/25/25 11:50		rubina	OK
10	Q1636-08	WC-2	SAM	03/25/25 11:53		rubina	OK
11	Q1636-12	WC-3	SAM	03/25/25 11:55		rubina	OK
12	Q1636-16	WC-4	SAM	03/25/25 11:58		rubina	OK
13	Q1636-20	WC-5	SAM	03/25/25 12:00		rubina	OK

Instrument ID: FILTER/GRAVIMETRIC

Daily Analysis Runlog For Sequence/QC Batch ID # LB135171

Review By	rubina	Review On	3/25/2025 1:51:53 PM
Supervise By	Iwona	Supervise On	3/25/2025 1:52:01 PM
SubDirectory	LB135171	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	Q1624-01	OK-01-03212025	SAM	03/25/25 09:30		rubina	OK
2	Q1626-01	CO-32-1	SAM	03/25/25 09:38		rubina	OK
3	Q1630-01	VNJ-206	SAM	03/25/25 09:45		rubina	OK
4	Q1632-01	PIER-1-2	SAM	03/25/25 09:52		rubina	OK
5	Q1634-01	HR-01-032425	SAM	03/25/25 10:00		rubina	OK
6	Q1634-03	HR-04-032425	SAM	03/25/25 10:08		rubina	OK
7	Q1635-01	TP-2	SAM	03/25/25 10:15		rubina	OK
8	Q1635-01DUP	TP-2DUP	DUP	03/25/25 10:23		rubina	OK

Instrument ID: KONELAB

Daily Analysis Runlog For Sequence/QC Batch ID # LB135176

Review By	rubina	Review On	3/25/2025 3:37:24 PM
Supervise By	Iwona	Supervise On	3/25/2025 3:44:29 PM
SubDirectory	LB135176	Test	Ammonia
STD. NAME	STD REF.#		
ICAL Standard	WP112448		
ICV Standard	WP112450		
CCV Standard	WP112449		
ICSA Standard	N/A		
CRI Standard	N/A		
LCS Standard	WP112335		
Chk Standard	WP112163,WP111745,WP111385,WP111660		

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	0.0PPM	0.0PPM	CAL1	03/25/25 10:34		rubina	OK
2	0.1PPM	0.1PPM	CAL2	03/25/25 10:34		rubina	OK
3	0.2PPM	0.2PPM	CAL3	03/25/25 10:34		rubina	OK
4	0.4PPM	0.4PPM	CAL4	03/25/25 10:34		rubina	OK
5	1.0PPM	1.0PPM	CAL5	03/25/25 10:34		rubina	OK
6	1.3PPM	1.3PPM	CAL6	03/25/25 10:34		rubina	OK
7	2.0PPM	2.0PPM	CAL7	03/25/25 10:34		rubina	OK
8	ICV1	ICV1	ICV	03/25/25 11:28		rubina	OK
9	ICB1	ICB1	ICB	03/25/25 11:28		rubina	OK
10	CCV1	CCV1	CCV	03/25/25 11:28		rubina	OK
11	CCB1	CCB1	CCB	03/25/25 11:28		rubina	OK
12	RL	RL	SAM	03/25/25 11:28		rubina	OK
13	PB167248BL	PB167248BL	MB	03/25/25 11:28		rubina	OK
14	PB167248BS	PB167248BS	LCS	03/25/25 11:39		rubina	OK
15	Q1604-02	FRAC-TANK-N45878	SAM	03/25/25 11:39		rubina	OK
16	Q1604-02DUP	FRAC-TANK-N45878	DUP	03/25/25 11:39		rubina	OK
17	Q1604-02MS	FRAC-TANK-N45878	MS	03/25/25 11:39		rubina	OK
18	Q1604-02MSD	FRAC-TANK-N45878	MSD	03/25/25 11:39		rubina	OK

Instrument ID: KONELAB

Daily Analysis Runlog For Sequence/QC Batch ID # LB135176

Review By	rubina	Review On	3/25/2025 3:37:24 PM
Supervise By	Iwona	Supervise On	3/25/2025 3:44:29 PM
SubDirectory	LB135176	Test	Ammonia
STD. NAME	STD REF.#		
ICAL Standard	WP112448		
ICV Standard	WP112450		
CCV Standard	WP112449		
ICSA Standard	N/A		
CRI Standard	N/A		
LCS Standard	WP112335		
Chk Standard	WP112163,WP111745,WP111385,WP111660		

19	Q1606-11	N48965	SAM	03/25/25 11:39	High	rubina	Dilution
20	Q1625-01	FRAC-TANK-A1291	SAM	03/25/25 11:39		rubina	OK
21	RL	RL	SAM	03/25/25 12:28		rubina	OK
22	CCV2	CCV2	CCV	03/25/25 12:28		rubina	OK
23	CCB2	CCB2	CCB	03/25/25 12:28		rubina	OK
24	PB167281BL	PB167281BL	MB	03/25/25 12:28		rubina	OK
25	PB167281BS	PB167281BS	LCS	03/25/25 12:28		rubina	OK
26	Q1626-01	CO-32-1	SAM	03/25/25 12:28		rubina	OK
27	Q1632-01	PIER-1-2	SAM	03/25/25 12:28		rubina	OK
28	Q1632-01DUP	PIER-1-2DUP	DUP	03/25/25 12:28		rubina	OK
29	Q1632-01MS	PIER-1-2MS	MS	03/25/25 12:28		rubina	OK
30	Q1632-01MSD	PIER-1-2MSD	MSD	03/25/25 12:28		rubina	OK
31	CCV3	CCV3	CCV	03/25/25 12:28		rubina	OK
32	CCB3	CCB3	CCB	03/25/25 12:28		rubina	OK
33	Q1606-11DL	N48965DL	SAM	03/25/25 12:35	Report 2X	rubina	OK
34	CCV4	CCV4	CCV	03/25/25 12:35		rubina	OK
35	CCB4	CCB4	CCB	03/25/25 12:35		rubina	OK

Instrument ID: SPECTROPHOTOMETER-2

Daily Analysis Runlog For Sequence/QC Batch ID # LB135178

Review By	Niha	Review On	3/26/2025 10:14:19 AM
Supervise By	Iwona	Supervise On	3/26/2025 10:15:14 AM
SubDirectory	LB135178	Test	COD
STD. NAME	STD REF.#		
ICAL Standard	N/A		
ICV Standard	N/A		
CCV Standard	N/A		
ICSA Standard	N/A		
CRI Standard	N/A		
LCS Standard	N/A		
Chk Standard	WP111522,WP111519,WP111517,WP111520,WP111518,WP111516,WP112412,WP112411,W3127		

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	CAL1	CAL1	CAL	01/22/25 13:30		Niha	OK
2	CAL2	CAL2	CAL	01/22/25 13:30		Niha	OK
3	CAL3	CAL3	CAL	01/22/25 13:31		Niha	OK
4	CAL4	CAL4	CAL	01/22/25 13:31		Niha	OK
5	CAL5	CAL5	CAL	01/22/25 13:32		Niha	OK
6	ICV	ICV	ICV	01/22/25 13:32		Niha	OK
7	ICB	ICB	ICB	01/22/25 13:33		Niha	OK
8	CCV1	CCV1	CCV	03/25/25 15:05		Niha	OK
9	CCB1	CCB1	CCB	03/25/25 15:05		Niha	OK
10	LB135178BL	LB135178BL	MB	03/25/25 15:06		Niha	OK
11	LB135178BS	LB135178BS	LCS	03/25/25 15:06		Niha	OK
12	Q1626-01	CO-32-1	SAM	03/25/25 15:07		Niha	OK
13	Q1632-01	PIER-1-2	SAM	03/25/25 15:07		Niha	OK
14	Q1632-01DUP	PIER-1-2DUP	DUP	03/25/25 15:08		Niha	OK
15	Q1632-01MS	PIER-1-2MS	MS	03/25/25 15:08	0.5ml WP112409 + 9.5ml Sample	Niha	OK
16	Q1632-01MSD	PIER-1-2MSD	MSD	03/25/25 15:09	0.5ml WP112409 + 9.5ml Sample	Niha	OK
17	CCV2	CCV2	CCV	03/25/25 15:09		Niha	OK
18	CCB2	CCB2	CCB	03/25/25 15:10		Niha	OK

Instrument ID: KONELAB

Daily Analysis Runlog For Sequence/QC Batch ID # LB135179

Review By	Niha	Review On	3/26/2025 8:53:16 AM
Supervise By	Iwona	Supervise On	3/26/2025 11:42:55 AM
SubDirectory	LB135179	Test	Reactive Cyanide
STD. NAME	STD REF.#		
ICAL Standard	WP112452,WP112453,WP112454,WP112455,WP112456,WP112457,WP112458		
ICV Standard	WP112460		
CCV Standard	WP112453		
ICSA Standard	N/A		
CRI Standard	N/A		
LCS Standard	N/A		
Chk Standard	WP111035,WP110103,WP112459		

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	0.0PPBCN	0.0PPBCN	CAL1	03/25/25 14:58		Niha	OK
2	5.0PPBCN	5.0PPBCN	CAL2	03/25/25 14:58		Niha	OK
3	10PPBCN	10PPBCN	CAL3	03/25/25 14:58		Niha	OK
4	50PPBCN	50PPBCN	CAL4	03/25/25 14:58		Niha	OK
5	100PPBCN	100PPBCN	CAL5	03/25/25 14:58		Niha	OK
6	250PPBCN	250PPBCN	CAL6	03/25/25 14:58		Niha	OK
7	500PPBCN	500PPBCN	CAL7	03/25/25 14:58		Niha	OK
8	ICV1	ICV1	ICV	03/25/25 15:30		Niha	OK
9	ICB1	ICB1	ICB	03/25/25 15:30		Niha	OK
10	CCV1	CCV1	CCV	03/25/25 15:30		Niha	OK
11	CCB1	CCB1	CCB	03/25/25 15:30		Niha	OK
12	PB167303BL	PB167303BL	MB	03/25/25 15:30		Niha	OK
13	Q1625-01	FRAC-TANK-A1291	SAM	03/25/25 15:30		Niha	OK
14	Q1625-01DUP	FRAC-TANK-A1291D	DUP	03/25/25 15:38		Niha	OK
15	PB167300BL	PB167300BL	MB	03/25/25 15:38		Niha	OK
16	Q1619-06	TP-1	SAM	03/25/25 15:38		Niha	OK
17	Q1619-06DUP	TP-1DUP	DUP	03/25/25 15:38		Niha	OK
18	Q1619-08	TP-2	SAM	03/25/25 15:38		Niha	OK

Instrument ID: KONELAB

Daily Analysis Runlog For Sequence/QC Batch ID # LB135179

Review By	Niha	Review On	3/26/2025 8:53:16 AM
Supervise By	Iwona	Supervise On	3/26/2025 11:42:55 AM
SubDirectory	LB135179	Test	Reactive Cyanide
STD. NAME	STD REF.#		
ICAL Standard	WP112452,WP112453,WP112454,WP112455,WP112456,WP112457,WP112458		
ICV Standard	WP112460		
CCV Standard	WP112453		
ICSA Standard	N/A		
CRI Standard	N/A		
LCS Standard	N/A		
Chk Standard	WP111035,WP110103,WP112459		

19	Q1619-10	TP-3	SAM	03/25/25 15:38		Niha	OK
20	Q1619-12	TP-4	SAM	03/25/25 15:38		Niha	OK
21	Q1619-14	TP-5	SAM	03/25/25 15:38		Niha	OK
22	CCV2	CCV2	CCV	03/25/25 15:45		Niha	OK
23	CCB2	CCB2	CCB	03/25/25 15:45		Niha	OK
24	Q1626-03	CO-32-1	SAM	03/25/25 15:45		Niha	OK
25	Q1627-01	GRID-LINE-1.2-NORT	SAM	03/25/25 15:45		Niha	OK
26	Q1630-02	VNJ-206	SAM	03/25/25 15:45		Niha	OK
27	Q1632-02	PIER-1-2	SAM	03/25/25 15:45		Niha	OK
28	Q1633-01	SLG	SAM	03/25/25 15:45		Niha	OK
29	Q1635-04	TP-2	SAM	03/25/25 15:45		Niha	OK
30	Q1636-04	WC-1	SAM	03/25/25 15:45		Niha	OK
31	Q1636-08	WC-2	SAM	03/25/25 15:53		Niha	OK
32	Q1636-12	WC-3	SAM	03/25/25 15:53		Niha	OK
33	Q1636-16	WC-4	SAM	03/25/25 15:53		Niha	OK
34	CCV3	CCV3	CCV	03/25/25 15:53		Niha	OK
35	CCB3	CCB3	CCB	03/25/25 15:53		Niha	OK
36	Q1636-20	WC-5	SAM	03/25/25 15:53		Niha	OK
37	CCV4	CCV4	CCV	03/25/25 15:53		Niha	OK
38	CCB4	CCB4	CCB	03/25/25 15:56		Niha	OK

Instrument ID: KONELAB

Daily Analysis Runlog For Sequence/QC Batch ID # LB135181

Review By	Niha	Review On	3/26/2025 8:55:25 AM
Supervise By	Iwona	Supervise On	3/26/2025 11:43:02 AM
SubDirectory	LB135181	Test	Cyanide
STD. NAME	STD REF.#		
ICAL Standard	WP112452,WP112453,WP112454,WP112455,WP112456,WP112457,WP112458		
ICV Standard	W3012		
CCV Standard	WP112453		
ICSA Standard	N/A		
CRI Standard	N/A		
LCS Standard	WP111296		
Chk Standard	WP111035,WP110103,WP112459		

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	0.0PPBCN	0.0PPBCN	CAL1	03/25/25 14:58		Niha	OK
2	5.0PPBCN	5.0PPBCN	CAL2	03/25/25 14:58		Niha	OK
3	10PPBCN	10PPBCN	CAL3	03/25/25 14:58		Niha	OK
4	50PPBCN	50PPBCN	CAL4	03/25/25 14:58		Niha	OK
5	100PPBCN	100PPBCN	CAL5	03/25/25 14:58		Niha	OK
6	250PPBCN	250PPBCN	CAL6	03/25/25 14:58		Niha	OK
7	500PPBCN	500PPBCN	CAL7	03/25/25 14:58		Niha	OK
8	ICV1	ICV1	ICV	03/25/25 16:26		Niha	OK
9	ICB1	ICB1	ICB	03/25/25 16:26		Niha	OK
10	CCV1	CCV1	CCV	03/25/25 16:26		Niha	OK
11	CCB1	CCB1	CCB	03/25/25 16:27		Niha	OK
12	PB167306BL	PB167306BL	MB	03/25/25 16:27		Niha	OK
13	PB167306BS	PB167306BS	LCS	03/25/25 16:27		Niha	OK
14	LOWPB167306	LOWPB167306	SAM	03/25/25 16:34		Niha	OK
15	HIGHPB167306	HIGHPB167306	SAM	03/25/25 16:34		Niha	OK
16	Q1626-01	CO-32-1	SAM	03/25/25 16:34		Niha	OK
17	Q1626-01DUP	CO-32-1DUP	DUP	03/25/25 16:34		Niha	OK
18	Q1626-01MS	CO-32-1MS	MS	03/25/25 16:34		Niha	OK

Instrument ID: KONELAB

Daily Analysis Runlog For Sequence/QC Batch ID # LB135181

Review By	Niha	Review On	3/26/2025 8:55:25 AM
Supervise By	Iwona	Supervise On	3/26/2025 11:43:02 AM
SubDirectory	LB135181	Test	Cyanide
STD. NAME	STD REF.#		
ICAL Standard	WP112452,WP112453,WP112454,WP112455,WP112456,WP112457,WP112458		
ICV Standard	W3012		
CCV Standard	WP112453		
ICSA Standard	N/A		
CRI Standard	N/A		
LCS Standard	WP111296		
Chk Standard	WP111035,WP110103,WP112459		

19	Q1626-01MSD	CO-32-1MSD	MSD	03/25/25 16:42		Niha	OK
20	CCV2	CCV2	CCV	03/25/25 16:42		Niha	OK
21	CCB2	CCB2	CCB	03/25/25 16:45		Niha	OK

Prep Standard - Chemical Standard Summary

Order ID : Q1626

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

Prepbatch ID : PB167259,PB167281,PB167287,PB167300,PB167306,

Sequence ID/Qc Batch ID: LB135156,LB135159,LB135161,LB135162,LB135166,LB135168,LB135169,LB135171,LB135176,LB13

Standard ID :

EP2595,WP110103,WP110149,WP110150,WP110335,WP110380,WP110381,WP110390,WP110391,WP110498,WP110829,WP110830,WP111004,WP111035,WP111249,WP111294,WP111295,WP111296,WP111315,WP111316,WP111317,WP111318,WP111325,WP111385,WP111514,WP111515,WP111516,WP111517,WP111518,WP111519,WP111520,WP111522,WP111660,WP111745,WP112163,WP112281,WP112334,WP112335,WP112371,WP112409,WP112410,WP112411,WP112412,WP112448,WP112449,WP112450,WP112451,WP112452,WP112453,WP112454,WP112455,WP112456,WP112457,WP112458,WP112459,WP112460.

Chemical ID :

E2865,E3551,E3788,E3902,M5673,M6096,M6121,M6126,W1992,W1993,W2202,W 2511,W2651,W2652,W2666,W2668
,W2700,W2708,W2725,W2784,W2817,W2858,W2871,W2882,W2926,W2979,W3001,W3009,W3012,W3019,W3071,W
3072,W3082,W3093,W3094,W3105,W3107,W3112,W3113,W3114,W3127,W3132,W3138,W3139,W3140,W3149,W315
2,W3154,W3161,W3163,W3169,W3174,W3177,

Extractions STANDARD PREPARATION LOG

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

(EX-SC-2)

FROM 4000.00000gram of E3551 = Final Quantity: 4000.000 gram

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

SC-5)

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



<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
153	Ammonia Stock Std. (1000 ppm)	WP110149	10/11/2024	04/08/2025	Rubina Mughal	WETCHEM_S CALE_5 (WC SC-5)	None	Iwona Zarych 10/14/2024
<u>FROM</u>	3.81900gram of W1993 + 996.18100ml of W3112 = Final Quantity: 1000.000 ml							

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

Wet Chemistry STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
1597	0.04 N H2SO4	WP110335	10/22/2024	04/22/2025	Rubina Mughal	None	WETCHEM_F IPETTE_3 (WC)	Iwona Zarych 10/22/2024

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

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
126	5N sulfuric acid	WP110380	10/24/2024	04/24/2025	Rubina Mughal	None	None	Iwona Zarych 10/24/2024

FROM 140.00000ml of M5673 + 860.00000ml of W3112 = Final Quantity: 1.000 L

Wet Chemistry STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
1836	HNO3 Hex-Chrome, 5M	WP110381	10/24/2024	04/24/2025	Rubina Mughal	None	None	Iwona Zarych
								10/24/2024

FROM 320.00000ml of M6096 + 680.00000ml of W3112 = Final Quantity: 1000.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3214	Magnesium Chloride For Cyanide 2.5M(51%W/V)	WP110390	10/24/2024	04/24/2025	Niha Farheen Shaik	WETCHEM_S CALE_5 (WC SC-5)	None	Iwona Zarych
								10/24/2024

FROM 500.00000ml of W3112 + 510.00000gram of W3001 = Final Quantity: 1000.000 ml

Wet Chemistry STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
1714	Sulfuric Acid, 50% (v/v)	WP110391	10/24/2024	04/24/2025	Niha Farheen Shaik	None	None	Iwona Zarych
								10/24/2024

FROM 1000.00000ml of M5673 + 1000.00000ml of W3112 = Final Quantity: 2000.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
190	HEX CHROME PHOSPHATE BUFFER	WP110498	10/31/2024	04/29/2025	Rubina Mughal	WETCHEM_SCALE_5 (WC SC-5)	None	Iwona Zarych
								10/31/2024

FROM 0.84500L of W3112 + 68.04000gram of W2708 + 87.09000gram of W2511 = Final Quantity: 1.000 L



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

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

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

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

Wet Chemistry STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3354	Hexchrome Cleaning Solution	WP111249	12/30/2024	05/13/2025	Rubina Mughal	None	None	Iwona Zarych
								01/02/2025

FROM 182.00000ml of M6121 + 727.00000ml of W3112 + 91.00000ml of M6126 = Final Quantity: 1000.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
11	Sodium hydroxide absorbing solution 0.25 N	WP111294	01/07/2025	07/07/2025	Niha Farheen Shaik	WETCHEM_S CALE_5 (WC SC-5)	None	Iwona Zarych
								01/07/2025

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

Wet Chemistry STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3850	Cyanide MS-MSD spiking solution, 5PPM	WP111295	01/07/2025	07/07/2025	Niha Farheen Shaik	None	WETCHEM_FIPETTE_3 (WC)	Iwona Zarych 01/07/2025

FROM 1.00000ml of W3154 + 199.00000ml of WP111294 = Final Quantity: 200.000 ml

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

FROM 1.00000ml of W3138 + 199.00000ml of WP111294 = Final Quantity: 200.000 ml



<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
1993	HEXAVALENTCHROMIUM STOCK STD 1, 50PPM	WP111315	01/09/2025	07/09/2025	Rubina Mughal	WETCHEM_SCALE_5 (WCS-5)	None	Iwona Zarych 01/09/2025
<u>FROM</u>	0.14140gram of W2651 + 1000.00000ml of W3112 = Final Quantity: 1000.000 ml							

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
1994	HEXAVALENTCHROMIUM STOCK STD 2, 50PPM	WP111316	01/09/2025	07/09/2025	Rubina Mughal	WETCHEM_SCALE_5 (WC SC-5)	None	Iwona Zarych 01/09/2025
<u>FROM</u>	0.14140gram of W2652 + 1000.00000ml of W3112 = Final Quantity: 1000.000 ml							



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

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

Wet Chemistry STANDARD PREPARATION LOG

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

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

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

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



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

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

Wet Chemistry STANDARD PREPARATION LOG

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

FROM 10.00000ml of W3112 = Final Quantity: 10.000 ml

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

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



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

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



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

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



<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
635	EDTA BUFFER FOR AMMONIA	WP111660	01/28/2025	07/28/2025	Rubina Mughal	WETCHEM_SCALE_8 (WCS-7)	None	Iwona Zarych 01/28/2025
<u>FROM</u> 5.50000gram of W3113 + 50.00000gram of W3132 + 950.00000ml of W3112 = Final Quantity: 1000.000 ml								

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



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

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
148	hexchrome digestion fluid	WP112281	03/13/2025	04/13/2025	Rubina Mughal	WETCHEM_S CALE_8 (WC SC-7)	None	Iwona Zarych 03/13/2025
<u>FROM</u>	120.00000gram of W3163 + 4.00000L of W3112 + 80.00000gram of W3113 = Final Quantity: 4000.000 ml							



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

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



<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
114	hexavalent chromium color reagent	WP112371	03/19/2025	03/26/2025	Rubina Mughal	WETCHEM_SCALE_5 (WCS-5)	None	Iwona Zarych 03/20/2025
<u>FROM</u> 0.25000gram of W2979 + 50.00000ml of E3902 = Final Quantity: 50.000 ml								

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
2456	COD Stock std, 1000ppm	WP112409	03/21/2025	03/28/2025	Niha Farheen Shaik	WETCHEM_S CALE_5 (WC SC-5)	None	Iwona Zarych 03/21/2025
<u>FROM</u>	0.08500gram of W3169 + 100.00000ml of W3112 = Final Quantity: 100.000 ml							



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

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



<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
2459	COD ICV-LCS std, 50ppm	WP112412	03/21/2025	03/28/2025	Niha Farheen Shaik	None	WETCHEM_PIPETTE_3	Iwona Zarych
(WC)								
<u>FROM</u>	9.50000ml of W3112 + 0.50000ml of WP112410 = Final Quantity: 10.000 ml							

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
275	Ammonia Calibration Std. (2 ppm)	WP112448	03/25/2025	03/26/2025	Rubina Mughal	None	WETCHEM_PIPETTE_3	Iwona Zarych
FROM 48.00000ml of W3112 + 2.00000ml of WP112334 = Final Quantity: 50.000 ml 								



<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
285	Ammonia CCV Std. (1 ppm)	WP112449	03/25/2025	03/26/2025	Rubina Mughal	None	WETCHEM_PIPETTE_3	Iwona Zarych
(WC) FROM 49.00000ml of W3112 + 1.00000ml of WP112334 = Final Quantity: 50.000 ml								

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
286	Ammonia ICV Std. (1 ppm)	WP112450	03/25/2025	03/26/2025	Rubina Mughal	None	WETCHEM_PIPETTE_3	Iwona Zarych
(WC) FROM 49.00000ml of W3112 + 1.00000ml of WP112335 = Final Quantity: 50.000 ml								

Wet Chemistry STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3456	Cyanide Intermediate Working Std, 5PPM	WP112451	03/25/2025	03/26/2025	Niha Farheen Shaik	None	WETCHEM_FIPETTE_3 (WC)	Iwona Zarych 03/26/2025

FROM 0.25000ml of W3154 + 49.75000ml of WP111294 = Final Quantity: 50.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
4	Calibration standard 500 ppb	WP112452	03/25/2025	03/26/2025	Niha Farheen Shaik	None	Glass Pipette-A	Iwona Zarych 03/26/2025

FROM 45.00000ml of WP111294 + 5.00000ml of WP112451 = Final Quantity: 50.000 ml

Wet Chemistry STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3761	Calibration-CCV CN Standard 250 ppb	WP112453	03/25/2025	03/26/2025	Niha Farheen Shaik	None	Glass Pipette-A	Iwona Zarych 03/26/2025

FROM 2.50000ml of WP112451 + 47.50000ml of WP111294 = Final Quantity: 50.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
6	Calibration Standard 100 ppb	WP112454	03/25/2025	03/26/2025	Niha Farheen Shaik	None	WETCHEM_FIPETTE_3 (WC)	Iwona Zarych 03/26/2025

FROM 1.00000ml of WP112451 + 49.00000ml of WP111294 = Final Quantity: 50.000 ml



<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
7	Calibration Standard 50 ppb	WP112455	03/25/2025	03/26/2025	Niha Farheen Shaik	None	WETCHEM_FIPETTE_3 (WC)	Iwona Zarych 03/26/2025
<u>FROM</u> 0.50000ml of WP112451 + 49.50000ml of WP111294 = Final Quantity: 50.000 ml								

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
8	Calibration Standard 10 ppb	WP112456	03/25/2025	03/26/2025	Niha Farheen Shaik	None	WETCHEM_FIPETTE_3 (WC)	Iwona Zarych 03/26/2025
<u>FROM</u>	1.00000ml of WP112452 + 49.00000ml of WP111294 = Final Quantity: 50.000 ml							



<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
9	Calibration Standard 5 ppb	WP112457	03/25/2025	03/26/2025	Niha Farheen Shaik	None	WETCHEM_PIPETTE_3 (WC)	Iwona Zarych 03/26/2025
<u>FROM</u>	0.50000ml of WP112452 + 49.50000ml of WP111294 = Final Quantity: 50.000 ml							

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
167	0 ppb CN calibration std	WP112458	03/25/2025	03/26/2025	Niha Farheen Shaik	None	None	Iwona Zarych 03/26/2025
<u>FROM</u> 50.00000ml of WP111294 = Final Quantity: 50.000 ml								



<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
1582	Chloramine T solution, 0.014M	WP112459	03/25/2025	03/26/2025	Niha Farheen Shaik	WETCHEM_SCALE_5 (WCS-5)	None	Iwona Zarych 03/26/2025
<u>FROM</u>	0.08000gram of W3139 + 20.00000ml of W3112 = Final Quantity: 20.000 ml							

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
2168	RCN ICV STD, 100 PPB	WP112460	03/25/2025	03/26/2025	Niha Farheen Shaik	None	WETCHEM_PIPETTE_3 (WC)	Iwona Zarych 03/26/2025
<u>FROM</u>	1.00000ml of WP111296 + 49.00000ml of WP111294 = Final Quantity: 50.000 ml							

CHEMICAL RECEIPT LOG BOOK

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

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	PC19631-100 / SODIUM SULFATE, ANHYDROUS, PEST GRADE, 1	313201	07/01/2025	01/03/2024 / Rajesh	07/20/2023 / Rajesh	E3551

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9254-03 / Acetone, Ultra Resi (cs/4x4L)	23H1462005	04/23/2025	08/13/2024 / Rajesh	08/13/2024 / Rajesh	E3788

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9254-03 / Acetone, Ultra Resi (cs/4x4L)		09/18/2025	03/18/2025 / RUPESH	02/12/2025 / RUPESH	E3902

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9673-33 / Sulfuric Acid, Instra-Analyzed (cs/6c2.5L)	23D2462010	03/20/2028	09/21/2023 / mohan	09/05/2023 / mohan	M5673

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9598-34 / Nitric Acid, Instra-Analyzed (cs/4x2.5L)	24D1062002	03/25/2029	10/22/2024 / Janvi	09/21/2024 / Janvi	M6096

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9530-33 / Hydrochloric Acid, Instra-Analyzed (cs/6x2.5L)	0000275677	05/13/2025	11/13/2024 / Eman	10/13/2024 / Eman	M6121

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9598-34 / Nitric Acid, Instra-Analyzed (cs/4x2.5L)	24D1062002	06/03/2025	12/03/2024 / Janvi	11/12/2024 / Janvi	M6126

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

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

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	AA14125-36 / LEAD (II) CHROMATE, ACS, 500G	U19B018	01/23/2027	01/23/2017 / apatel	01/23/2017 / apatel	W2202

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	J3252-1 / POTAS PHOSPHATE, DIBASIC PWD, ACS, 500G	0000207436	04/29/2025	05/22/2019 / AMANDEEP	03/21/2019 / apatel	W2511

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	AA13450-36 / Potassium Dichromate, 500g(NEW)	T15F019	01/24/2030	01/24/2020 / apatel	01/24/2020 / apatel	W2651

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	P188-500 / Potassium Dichromate, 500g(new-2nd lot)	194664	01/24/2030	01/24/2020 / apatel	01/24/2020 / apatel	W2652

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

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

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

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	J3246-1 / POTAS PHOSPHATE, MONO, CRYST, ACS, 500G	99/2019-20	05/05/2025	05/05/2020 / apatel	05/05/2020 / apatel	W2708

CHEMICAL RECEIPT LOG BOOK

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

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	P243-500 / Potassium Hydrogen Phthalate, 500 gms	201089	06/30/2025	12/23/2020 / apatel	12/16/2020 / apatel	W2784

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

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

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

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

CHEMICAL RECEIPT LOG BOOK

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

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	31390 / 1,5-Diphenylcarbazine	MKCR6636	12/09/2027	12/09/2022 / lwona	12/09/2022 / lwona	W2979

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	01237-10KG / Magnesium Chloride Hexahydrate ACS 10KG	002251-03319	06/06/2027	01/23/2023 / lwona	06/06/2022 / lwona	W3001

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 #
EPA	/ ICV-CN	ICV6-400	12/31/2025	01/08/2025 / lwona	02/20/2020 / lwona	W3012

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

CHEMICAL RECEIPT LOG BOOK

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

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

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	A12244 / Stearic acid, 98%, 100 g	U23E020	02/26/2029	02/26/2024 / 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.	1601-1 / PH 10.01 BUFFER,COLOR CD 475ML	4310g83	03/31/2025	04/03/2024 / jignesh	04/02/2024 / jignesh	W3094

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

CHEMICAL RECEIPT LOG BOOK

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

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

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

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

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Environmental Express LTD	B1010 / COD Digestion Vials Low Level 0-150Mg/L	13821	10/31/2027	03/21/2025 / Niha	07/25/2024 / lwona	W3127

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

CHEMICAL RECEIPT LOG BOOK

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

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

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

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

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	01237-10KG / Magnesium Chloride Hexahydrate ACS 10KG	002126-2019-201	11/25/2029	11/25/2024 / Iwona	11/25/2024 / Iwona	W3152

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

CHEMICAL RECEIPT LOG BOOK

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

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	EM-SX0395-3 / SODIUM CARBONATE ANHYDR 2.5KG	24E3156178	09/30/2027	12/10/2024 / lwona	12/10/2024 / lwona	W3163

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

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

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9262-03 / Hexane, Ultra-Resi (cs/4x4L)	24G1962003	08/22/2025	02/03/2025 / jignesh	01/31/2025 / jignesh	W3177

Certificate of analysis

Product No. 14125
Product: Lead(II) chromate, ACS, 98%
Lot No.: U19B018

Test	Limits	Results
Assay	98.0 % min	99.3 %
Soluble matter	0.15 % max	< 0.02 %
Carbon compounds	0.01 % max	< 0.01 %

Traceable to NIST? Yes

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S C I E N T I F I C

Certificate of Analysis



Date of Release: 12/18/2013

Product: Ammonium Chloride GR ACS

Catalog No.: AX1270 all
size codes

Grade: Meets ACS Specifications

CAS #: 12125-02-9

Country of Origin: India

FW: 53.49

Lot No.: WL13B



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

Joe Schoellkopf

Quality Control Manager

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Certificate of Analysis



Date of Release: 5/12/2014

Product: Ammonium Chloride GR ACS

Catalog No.: AX1270 all
size codes

Grade: Meets ACS Specifications

CAS #: 12125-02-9

Country of Origin: India

FW: 53.49

Lot No.: XE09B



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

Joe Schoellkopf

Quality Control Manager

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Product No.: 13450
Product: Potassium dichromate, ACS, 99.0% min
Lot No.: T15F019

Test	Limits	Results
Appearance	Orange-red crystals	Orange-red crystals
Identification	To Pass	Passes
Purity	99.0 % min	99.67 %
Insoluble matter	0.005 % max	0.004 %
Loss on drying	0.05 % max	0.03 %
Chloride	0.001 % max	< 0.001 %
Sulfate	0.005 % max	< 0.005 %
Iron	0.001 % max	< 0.001 %
Calcium	0.003 % max	0.0012 %
Sodium	0.02 % max	0.0047 %

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Hexadecane, 99.0%



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

Certificate of Analysis

Test	Specification	Result
Assay (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

Potassium Phosphate, Dibasic, Powder
BAKER ANALYZED® A.C.S. Reagent

(dipotassium hydrogen phosphate)



Material No.: 3252-01
Batch No.: 0000207436
Manufactured Date: 2018/05/01
Retest Date: 2025/04/29
Revision No: 1

Certificate of Analysis

Meets ACS Reagent Chemical Requirements,

Test	Specification	Result
Assay (K_2HPO_4) (by acidimetry)	$\geq 98.0 \%$	99.2
Insoluble Matter	$\leq 0.01 \%$	< 0.01
Loss on Drying at 105°C	$\leq 1.0 \%$	< 1.0
pH of 5% Solution at 25°C	8.5 – 9.6	9.1
Chloride (Cl)	$\leq 0.003 \%$	< 0.003
Fluoride (F)	$\leq 0.001 \%$	< 0.001
Nitrogen Compounds (as N)	$\leq 0.001 \%$	< 0.001
Sulfate (SO_4)	$\leq 0.005 \%$	< 0.005
Trace Impurities – Iron (Fe)	$\leq 0.001 \%$	< 0.001
Sodium (Na)	$\leq 0.05 \%$	< 0.05
Trace Impurities – Arsenic (As)	$\leq 1.000 \text{ ppm}$	< 1.000
Trace Impurities – ACS – Heavy Metals (as Pb)	$\leq 5 \text{ ppm}$	< 5
Trace Impurities – Lead (Pb)	$\leq 5.000 \text{ ppm}$	< 5.000
Color (APHA), For Information Only		5

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

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



Phillipsburg, NJ 9001:2015, FSC22000
Paris, KY 9001:2008
Mexico City, Mexico 9001:2008
Gliwice, Poland 9001:2015, 13485:2012
Selangor, Malaysia 9001:2008
Dehradun, India, 9001:2008, 14001:2004, 13485:2003
Mumbai, India, 9001:2015, 17025:2005
Panoli, India 9001:2015

James 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

W2858 Received by AP on 07/07/2021

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

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

Retest date: January 7, 2026

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W2666 Recived on 02/10/2020 by AP

Product No.: 87683

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

Lot No.: W12F013

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

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W2817

REC. 04/02/2021

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

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

Product Specification

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

Date Of Print: 11/30/2023

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

W3071
Rec 12/6/23

Certificate of Analysis 12

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

Lot Number: 4308H30

Product Number: 1551

Manufacture Date: AUG 09, 2023

Expiration Date: JUL 2025

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

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

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

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

Test	Specification	Result
Appearance	Yellow liquid	Passed

*Not a certified value.

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

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

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

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

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



Paul Brandon (08/09/2023)

Production Manager

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

This product was tested in an ISO 17025 Accredited Laboratory

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

W2918
W3001
rec. 06/06/22
exp. 06/06/27

Chem-Impex International, Inc.

Tel: (630) 766-2112
E-mail: sales@chemimpex.com
Shipping and Correspondence:
935 Dillon Drive
Wood Dale, IL 60191

Fax: (630) 766-2218
Web site: www.chemimpex.com
Manufacturing site:
825 Dillon Drive
Wood Dale, IL 60191

Certificate of Analysis

Catalogue Number	01237
Product	Magnesium chloride hexahydrate
Lot Number	002251-03319 Magnesium chloride•6H ₂ O
CAS Number	7791-18-6
Molecular Formula	MgCl ₂ •6H ₂ O
Molecular Weight	203.3

Appearance	Colorless crystals, very deliquescent
Heavy Metals	< 5 ppm
Anion	Nitrate : < 0.001% Phosphate : < 5 ppm Sulfate : < 0.002%
Cation	Ammonium : < 0.002% Barium : < 0.005% Calcium : 0.0006% Iron : < 5 ppm Manganese : 1.8 ppm Potassium : 0.0006% Sodium : 0.0008% Strontium : 0.0015%
Insoluble material	0.0025%
Assay by titration	100.29%
Grade	ACS reagent
Storage	Store at RT
Country of Origin	India

Certificate of Analysis

Catalog Number: 01237

Lot Number: 002251-03319

Remarks

See material safety data sheet for additional information

For laboratory use only

The foregoing is a copy of the Certificate of Analysis as provided by our supplier



Bala Kumar
Quality Control Manager

W3009
rec. 2/27/2023 12

Product Name:

Hexadecane - ReagentPlus®, 99%

Certificate of Analysis

Product Number:

H6703

Batch Number:

SHBP8192

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

Brand:

SIAL

CAS Number:

544-76-3

MDL Number:

MFCD00008998

Formula:

C16H34

Formula Weight:

226.44 g/mol

Quality Release Date:

04 AUG 2022

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


Larry Coers, Director

Quality Control

Sheboygan Falls, WI US

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



W3019
rec 4/3/23

3050 Spruce Street, Saint Louis, MO 63103, USA

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

Certificate of Analysis

Product Name:

Pyridine - anhydrous, 99.8%

Product Number:

270970

Batch Number:

SHBQ2113

Brand:

SIAL

CAS Number:

110-86-1

MDL Number:

MFCD00011732

Formula:

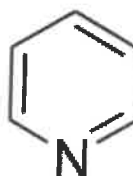
C₅H₅N

Formula Weight:

79.10 g/mol

Quality Release Date:

15 DEC 2022



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


Larry Coers, Director

Quality Control

Sheboygan Falls, WI US

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





RICCA CHEMICAL COMPANY®

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

W 3072
REC. 12/01/23
12

Certificate of Analysis

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

Lot Number: 2310P21

Product Number: 1615

Manufacture Date: OCT 24, 2023

Expiration Date: APR 2025

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

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

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

Test	Specification	Result
Appearance	Colorless liquid	Passed

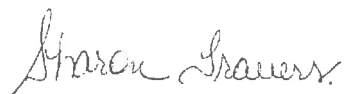
*Not a certified value.

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

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

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

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



Sharon Travers (10/24/2023)

Operations Manager

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

This product was tested in an ISO 17025 Accredited Laboratory

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



Certificate of Analysis

Date of Release: 2/26/2020

Name: Formaldehyde Solution
GR ACS
Meets ACS Specifications

Item No: FX0410 all size codes

Lot / Batch No: 60045

Country of Origin: USA

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

Heather Sinn,

Quality Control Manager

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

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

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

Certificate Of Analysis



Date of Release: 11/14/2019

W2700 Recived by AP on 3/11/2020

Name: **Sodium Borate, Decahydrate**
ACS

Item No: **SX0355 All Sizes**

Lot / Batch No: **2019111354**

Country of Origin: **India**

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

Joe Schoellkopf

Quality Control Manager

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.

Form number: 00005624CA, Rev. 2.0



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	P188	Quality Test / Release Date	08/12/2019
Lot Number	194664		
Description	POTASSIUM DICHROMATE, A.C.S.		
Country of Origin	United States	Suggested Retest Date	Aug/2024
Chemical Origin	Inorganic-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.		
Chemical Comment			

N/A			
Result Name	Units	Specifications	Test Value
APPEARANCE		REPORT	Fine, orange-red crystals
ASSAY	%	>= 99	99.2
CALCIUM	%	<= 0.003	<0.003
CHLORIDE	%	<= 0.001	<0.001
LOSS ON DRYING @ 105 C	%	<= 0.05	<0.05
SULFATE (SO4)	%	<= 0.005	<0.005
INSOLUBLE MATTER	%	<= 0.005	0.003
IRON (Fe)	%	<= 0.001	<0.001
SODIUM (Na)	%	<= 0.02	<0.02
IDENTIFICATION	PASS/FAIL	= PASS TEST	PASS TEST

Jerusa Bailey-Wyche

Quality Assurance Specialist - Certificate of Analysis 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.

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 - Quality Control Manager – Fair Lawn

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

*Based on suggested storage condition.

Sand
Purified
Washed and Ignited



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

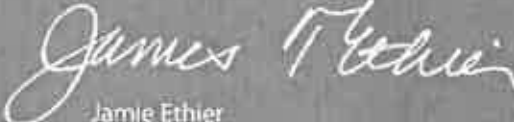
Certificate of Analysis

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

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

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

E 2865


Jamie Ethier
Vice President Global Quality

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

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



**PRODUCTOS
QUÍMICOS
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 ₂ SO ₄
SPECIFICATION NUMBER :	6399	RELEASE DATE:	ABR/21/2023
LOT NUMBER :	313201		

TEST	SPECIFICATIONS	LOT VALUES
Assay (Na ₂ SO ₄)	Min. 99.0%	99.7 %
pH of a 5% solution at 25°C	5.2 - 9.2	6.1
Insoluble matter	Max. 0.01%	0.005 %
Loss on ignition	Max. 0.5%	0.1 %
Chloride (Cl)	Max. 0.001%	<0.001 %
Nitrogen compounds (as N)	Max. 5 ppm	<5 ppm
Phosphate (PO ₄)	Max. 0.001%	<0.001 %
Heavy metals (as Pb)	Max. 5 ppm	<5 ppm
Iron (Fe)	Max. 0.001%	<0.001 %
Calcium (Ca)	Max. 0.01%	0.002 %
Magnesium (Mg)	Max. 0.005%	0.001 %
Potassium (K)	Max. 0.008%	0.003 %
Extraction-concentration suitability	Passes test	Passes test
Appearance	Passes test	Passes test
Identification	Passes test	Passes test
Solubility and foreign matter	Passes test	Passes test
Retained on US Standard No. 10 sieve	Max. 1%	0.1 %
Retained on US Standard No. 60 sieve	Min. 94%	97.3 %
Through US Standard No. 60 sieve	Max. 5%	2.5 %
Through US Standard No. 100 sieve	Max. 10%	0.1 %

COMMENTS

QC: PhC Irma Belmares

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

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

RC-02-01, Ed. 3

Acetone

BAKER RESI-ANALYZED® Reagent
For Organic Residue Analysis

Avantor™



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

Certificate of Analysis

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

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

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

Recd by RP on 8/13/24

E 3788

Ken Koehnlein
Sr. Manager, Quality Assurance

Acetone

BAKER RESI-ANALYZED® Reagent

For Organic Residue Analysis

 avantor

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) ₂ CO) (by GC, corrected for water)	>= 99.4 %	100.0 %
Color (APHA)	<= 10	5
Residue after Evaporation	<= 1.0 ppm	0.0 ppm
Substances Reducing Permanganate	Passes Test	Passes Test
Titration Acid (µeq/g)	<= 0.3	0.2
Titration Base (µeq/g)	<= 0.6	<0.1
Water (H ₂ O)	<= 0.5 %	<0.1 %
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	<= 5	1
ECD Sensitive Impurities (as Heptachlor Epoxide) Single Peak (pg/mL)	<= 10	1

For Laboratory, Research, or Manufacturing Use

MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: United States

Packaging Site: Phillipsburg Mfg Ctr & DC

E3902

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

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



R: 02/20/20
53

Instructions for QATS Reference Material: Inorganic ICV Solutions

For ICP-MS use: dilute the ICV1 concentrate 50-fold with 1% (v/v) nitric acid; pipet 2 mL of the concentrate into a 100 mL volumetric flask and dilute to volume with 1% (v/v) nitric acid.

ICV5-0415

For the cold vapor analysis of mercury by AA: dilute the ICV5 concentrate 100-fold with 2% (v/v) nitric acid; pipet 1 mL of the concentrate into a 100 mL volumetric flask and dilute to volume with 2% (v/v) nitric acid. The ICV5 concentrate is prepared in 0.05% (w/v) $K_2Cr_2O_7$ and 5% (v/v) nitric acid.

ICV6-0400

For the analysis of cyanide: dilute the ICV6 concentrate 100-fold with Type II water; pipet 1 mL of the concentrate into a 100 mL volumetric flask and dilute to volume with Type II water. Distill this solution along with the samples before analysis. The cyanide concentrate is prepared from $K_3Fe(CN)_6$, Type II water, and 0.1 % sodium hydroxide, and will decompose rapidly if exposed to light.

NOTE: USE TYPE II WATER AND HIGH-PURITY ACIDS FOR ALL DILUTIONS.

(D) CERTIFIED CONCENTRATIONS OF QATS ICV1, ICV5, AND ICV6 SOLUTIONS

ICV1-1014		
Element	Concentration (µg/L) (after 10-fold dilution)	Concentration (µg/L) (after 50-fold dilution)
Al	2520	504
Sb	1010	202
As	997	199
Ba	518	104
Be	514	103
Cd	514	103
Ca	10000	2000
Cr	517	103
Co	521	104
Cu	505	101
Fe	10100	2020
Pb	1030	206
Mg	5990	1198
Mn	524	105
Ni	525	105
K	9940	1988
Se	1030	206
Ag	252	50
Na	10100	2020
Tl	1040	208
V	504	101
Zn	1010	202

ICV5-0415		ICV6-0400	
Element	Concentration (µg/L) (after 100-fold dilution)	Analyte	Concentration (µg/L) (after 100-fold dilution)
Hg	4.0	CN ⁻	99

W3011
W3012
W3013
W3014
W3015

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

 **avantor**™



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

Certificate of Analysis

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

>>> Continued on page 2 >>>

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



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

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

For Laboratory, Research, or Manufacturing Use

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

A handwritten signature in cursive script that reads 'James T Ethier'.
Jamie Ethier
Vice President Global Quality

Nitric Acid 69%
CMOS

avantor™



M6096
M6097
M6098
M6099
M6100

Mutdig
9/21/24

Material No.: 9606-03
Batch No.: 24D1062002
Manufactured Date: 2024-03-26
Retest Date: 2029-03-25
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay (HNO ₃)	69.0 – 70.0 %	69.7 %
Appearance	Passes Test	Passes Test
Color (APHA)	≤ 10	5
Residue after Ignition	≤ 2 ppm	1 ppm
Chloride (Cl)	≤ 0.08 ppm	< 0.03 ppm
Phosphate (PO ₄)	≤ 0.10 ppm	< 0.03 ppm
Sulfate (SO ₄)	≤ 0.2 ppm	< 0.2 ppm
Trace Impurities – Aluminum (Al)	≤ 40.0 ppb	< 1.0 ppb
Arsenic and Antimony (as As)	≤ 5.0 ppb	< 2.0 ppb
Trace Impurities – Barium (Ba)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Beryllium (Be)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Bismuth (Bi)	≤ 20.0 ppb	< 10.0 ppb
Trace Impurities – Boron (B)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities – Cadmium (Cd)	≤ 50 ppb	< 1 ppb
Trace Impurities – Calcium (Ca)	≤ 50.0 ppb	2.3 ppb
Trace Impurities – Chromium (Cr)	≤ 30.0 ppb	< 1.0 ppb
Trace Impurities – Cobalt (Co)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Copper (Cu)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Gallium (Ga)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Germanium (Ge)	≤ 20 ppb	< 10 ppb
Trace Impurities – Gold (Au)	≤ 20 ppb	< 5 ppb
Heavy Metals (as Pb)	≤ 100 ppb	100 ppb
Trace Impurities – Iron (Fe)	≤ 40.0 ppb	< 1.0 ppb
Trace Impurities – Lead (Pb)	≤ 20.0 ppb	< 10.0 ppb
Trace Impurities – Lithium (Li)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Magnesium (Mg)	≤ 20 ppb	< 1 ppb
Trace Impurities – Manganese (Mn)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Nickel (Ni)	≤ 20.0 ppb	< 5.0 ppb

>>> Continued on page 2 >>>

Nitric Acid 69%
CMOS



Material No.: 9606-03
Batch No.: 24D1062002

Test	Specification	Result
Trace Impurities – Niobium (Nb)	≤ 50.0 ppb	< 1.0 ppb
Trace Impurities – Potassium (K)	≤ 50 ppb	16 ppb
Trace Impurities – Silicon (Si)	≤ 50 ppb	< 10 ppb
Trace Impurities – Silver (Ag)	≤ 20.0 ppb	< 1.0 ppb
Trace Impurities – Sodium (Na)	≤ 150.0 ppb	< 5.0 ppb
Trace Impurities – Strontium (Sr)	≤ 30.0 ppb	< 1.0 ppb
Trace Impurities – Tantalum (Ta)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities – Thallium (Tl)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities – Tin (Sn)	≤ 20.0 ppb	< 10.0 ppb
Trace Impurities – Titanium (Ti)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Vanadium (V)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Zinc (Zn)	≤ 20.0 ppb	< 1.0 ppb
Trace Impurities – Zirconium (Zr)	≤ 10.0 ppb	< 1.0 ppb
Particle Count – 0.5 µm and greater	≤ 60 par/ml	10 par/ml
Particle Count – 1.0 µm and greater	≤ 10 par/ml	3 par/ml

>>> Continued on page 3 >>>

Nitric Acid 69%
CMOS



Material No.: 9606-03
Batch No.: 24D1062002

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

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

J. Croak
Jamie Croak
Director Quality Operations, Bioscience Production

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

avantor™



R → 16/13/24
Met dig

M 6121

Material No.: 9530-33
Batch No.: 0000275677
Manufactured Date: 2020/12/16
Retest Date: 2025/12/15
Revision No: 1

Certificate of Analysis

Test	Specification	Result
ACS - Assay (as HCl) (by acid-base titrn)	36.5 - 38.0 %	37.6
ACS - Color (APHA)	<= 10	5
ACS - Residue after Ignition	<= 3 ppm	1
ACS - Specific Gravity at 60°/60°F	1.185 - 1.192	1.190
ACS - Bromide (Br)	<= 0.005 %	< 0.005
ACS - Extractable Organic Substances	<= 5 ppm	1
ACS - Free Chlorine (as Cl ₂)	<= 0.5 ppm	< 0.5
Phosphate (PO ₄)	<= 0.05 ppm	< 0.03
Sulfate (SO ₄)	<= 0.5 ppm	< 0.3
Sulfite (SO ₃)	<= 0.8 ppm	0.3
Ammonium (NH ₄)	<= 3 ppm	< 1
Trace Impurities - Arsenic (As)	<= 0.010 ppm	< 0.003
Trace Impurities - Aluminum (Al)	<= 10.0 ppb	< 0.2
Arsenic and Antimony (as As)	<= 5 ppb	< 3
Trace Impurities - Barium (Ba)	<= 1.0 ppb	< 0.2
Trace Impurities - Beryllium (Be)	<= 1.0 ppb	< 0.2
Trace Impurities - Bismuth (Bi)	<= 10.0 ppb	< 1.0
Trace Impurities - Boron (B)	<= 20.0 ppb	< 5.0
Trace Impurities - Cadmium (Cd)	<= 1.0 ppb	< 0.3
Trace Impurities - Calcium (Ca)	<= 50.0 ppb	29.7
Trace Impurities - Chromium (Cr)	<= 1.0 ppb	< 0.4
Trace Impurities - Cobalt (Co)	<= 1.0 ppb	< 0.3
Trace Impurities - Copper (Cu)	<= 1.0 ppb	< 0.1
Trace Impurities - Gallium (Ga)	<= 1.0 ppb	< 0.2

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

Avantor Performance Materials, LLC

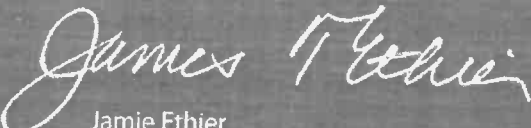
100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone: 610.386.1700

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

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

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

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


Jamie Ethier
Vice President Global Quality

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

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

Nitric Acid 69%
CMOS



R → 11/12/24

M6126

Material No.: 9606-03
Batch No.: 24D1062002
Manufactured Date: 2024-03-26
Retest Date: 2029-03-25
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay (HNO ₃)	69.0 – 70.0 %	69.7 %
Appearance	Passes Test	Passes Test
Color (APHA)	≤ 10	5
Residue after Ignition	≤ 2 ppm	1 ppm
Chloride (Cl)	≤ 0.08 ppm	< 0.03 ppm
Phosphate (PO ₄)	≤ 0.10 ppm	< 0.03 ppm
Sulfate (SO ₄)	≤ 0.2 ppm	< 0.2 ppm
Trace Impurities – Aluminum (Al)	≤ 40.0 ppb	< 1.0 ppb
Arsenic and Antimony (as As)	≤ 5.0 ppb	< 2.0 ppb
Trace Impurities – Barium (Ba)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Beryllium (Be)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Bismuth (Bi)	≤ 20.0 ppb	< 10.0 ppb
Trace Impurities – Boron (B)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities – Cadmium (Cd)	≤ 50 ppb	< 1 ppb
Trace Impurities – Calcium (Ca)	≤ 50.0 ppb	2.3 ppb
Trace Impurities – Chromium (Cr)	≤ 30.0 ppb	< 1.0 ppb
Trace Impurities – Cobalt (Co)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Copper (Cu)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Gallium (Ga)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Germanium (Ge)	≤ 20 ppb	< 10 ppb
Trace Impurities – Gold (Au)	≤ 20 ppb	< 5 ppb
Heavy Metals (as Pb)	≤ 100 ppb	100 ppb
Trace Impurities – Iron (Fe)	≤ 40.0 ppb	< 1.0 ppb
Trace Impurities – Lead (Pb)	≤ 20.0 ppb	< 10.0 ppb
Trace Impurities – Lithium (Li)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Magnesium (Mg)	≤ 20 ppb	< 1 ppb
Trace Impurities – Manganese (Mn)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Nickel (Ni)	≤ 20.0 ppb	< 5.0 ppb

>>> Continued on page 2 >>>

Nitric Acid 69%
CMOS

 **avantor**TM



Material No.: 9606-03
Batch No.: 24D1062002

Test	Specification	Result
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For Microelectronic Use

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



Jamie Croak
Director Quality Operations, Bioscience Production



Certificate of Analysis

1.00132.0000 Barbituric acid for analysis EMSURE®
Batch N020065932

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

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

Ioannis Chartomatsidis
Responsible laboratory manager quality control

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



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E-mail : info@cpcindia.com

Web : www.cpcindia.com

W2708 Received on 05/05/20 by AP

CERTIFICATE OF ANALYSIS

PRODUCT	: POTASSIUM PHOSPHATE MONOBASIC Anhy. - ACS	
CERTIFICATE NO	: 99/2019- 20	DATE 26-08-2019
Date of receipt of sample	: 22.08.2019	Quantity : 1000 KGS
Batch No. /Lot No	: 99/2019- 20	
Mfg. Date	: Aug-2019	
1. Characteristic	: A White powder	
2. Identification	: Positive	
	RESULT OBTAINED	LIMITS
3. Clarity and colour of solution	: 10% solution is clear and colourless	
4. Assay (on dry basis)	: 99.27%	Min.99.00%
5. PH (5% solution)	: 4.4	4.1-4.5
6. Loss on Drying	: 0.1%	Max 0.2%
7. Heavy Metals	: 0.0003%	Max.0.001%
8. Iron	: 0.001%	Max 0.002%
9. Sulphate	: 0.001%	Max. 0.003%
10. Chloride	: 0.0005%	Max.0.001%
11. Insoluble Matter	: 0.003%	Max. 0.01%
12. Sodium	: 0.004%	Max. 0.005%
The sample does comply with specification as per Above.		
Analysed by	<u>J.A. PATHAK</u>	Quality Control Department

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

(sodium dihydrogen phosphate, monohydrate)



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

Certificate of Analysis

Meets ACS Reagent Chemical Requirements,

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

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

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


Jamie Ethier
Vice President Global Quality

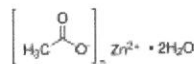
For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700
Avantor Performance Materials, LLC
100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone: 610.386.1700

Certificate of Analysis

Product Name:

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

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



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

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


Larry Coers, Director
Quality Control
Milwaukee, WI US

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



W 2979

Rec: 12/09/22

exp. 12/09/27

Product Name:

1,5-Diphenylcarbazide - ACS reagent

Product Number:

259225

Batch Number:

MKCR6636

Brand:

SIAL

CAS Number:

140-22-7

MDL Number:

MFCD00003013

Formula:

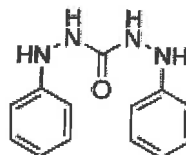
C₁₃H₁₄N₄O

Formula Weight:

242.28 g/mol

Quality Release Date:

02 JUN 2022



Certificate of Analysis

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



Larry Coers, Director
Quality Control
Milwaukee, WI US

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



Certificate of analysis

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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customerservice@riccachemical.com

Certificate of Analysis

W3093
004121
04/03/2024
16

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

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

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

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

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

Test	Specification	Result
Appearance	Yellow liquid	Passed

*Not a certified value.

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

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

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

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

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



Paul Brandon (01/08/2024)

Production Manager

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

This product was tested in an ISO 17025 Accredited Laboratory

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



Certificate of Analysis

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

Lot Number: 4310G83

Product Number: 1601

Manufacture Date: OCT 09, 2023

Expiration Date: MAR 2025

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

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

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

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

Test	Specification	Result
Appearance	Blue liquid	Passed

*Not a certified value.

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

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

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

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

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



Paul Brandon (10/09/2023)

Production Manager

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

This product was tested in an ISO 17025 Accredited Laboratory

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Certificate of Analysis

Sodium Thiosulfate, 0.0250 Normal (N/40)

Lot Number: 4403S13

Product Number: 7900

Manufacture Date: MAR 29, 2024

Expiration Date: SEP 2025

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

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

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

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

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

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

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



Paul Brandon (03/29/2024)

Production Manager

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

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



Certificate of Analysis

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

Lot Number: 4403F90

Product Number: 1501

Manufacture Date: MAR 09, 2024

Expiration Date: FEB 2026

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

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

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

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

Test	Specification	Result
Appearance	Red liquid	Passed

*Not a certified value.

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

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

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

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

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



Paul Brandon (03/09/2024)

Production Manager

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

This product was tested in an ISO 17025 Accredited Laboratory

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Sodium Hydroxide (Pellets)

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

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

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

Storage: Room Temperature

Pellets

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

Internal ID #: 710

Signature

We certify that this batch conforms to the specifications listed.

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

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

Additional Information

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

Product meets analytical specifications of the grades listed.



Sodium Hydroxide (Pellets)

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

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

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

Storage: Room Temperature

Pellets

Spec Set: 0583ACS

Internal ID #: 710

Signature

We certify that this batch conforms to the specifications listed.

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

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

Additional Information

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

Product meets analytical specifications of the grades listed.

Certificate of Analysis

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

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

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

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

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

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

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

Jose Pena (05/10/2024)
Operations Manager

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

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

October 27, 2022

CERTIFICATE OF ANALYSIS

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

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

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

Item Number	ED150	Lot Number	2ND0156
Item	Edetate Disodium, Dihydrate, USP	CAS Number	6381-92-6
Molecular Formula	$C_{10}H_{14}N_2Na_2O_8 \cdot 2H_2O$	Molecular Weight	372.24

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

Certificate of Analysis Results Entered By:

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

Certificate of Analysis Results Approved By:

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

Spectrum Chemical Mfg Corp
755 Jersey Avenue
New Brunswick 08901 NJ



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

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

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



Part of TCP Analytical Group

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

Certificate of Analysis

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

Product Code: **LC13545**

Manufacture Date: August 01, 2024

Lot Number: **44080060**

Expiration Date: January 30, 2025

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

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

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

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

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

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

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

Michael Monteleone

Michael Monteleone
Chemistry Supervisor - Quality Control

ISO9001:2015 Registration #0306-01

2024080113:32:16bsturges-0-0

W3139 Received on 9/9/24 by IZ

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

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

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



Certificate of Analysis

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

Lot Number: 4408P62

Product Number: 8000

Manufacture Date: AUG 28, 2024

Expiration Date: AUG 2026

This product is Mercury-free.

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

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

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

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

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

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

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

Paul Brandon (08/28/2024)
Production Manager

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Chem-Impex International, Inc.

Tel: (630) 766-2112**E-mail:** sales@chemimpex.com**Shipping and Correspondence:**

935 Dillon Drive

Wood Dale, IL 60191

Fax: (630) 766-2218**Web site:** www.chemimpex.com**Manufacturing site:**

825 Dillon Drive

Wood Dale, IL 60191

Certificate of Analysis

Catalogue Number	01237
Lot Number	002126-2019-201
Product	Magnesium chloride hexahydrate

Magnesium chloride•6H₂O

CAS Number	7791-18-6
Molecular Formula	MgCl ₂ •6H ₂ O
Molecular Weight	203.3

Appearance	White crystals
Solubility	167 g in 100 mL water
Melting Point	~ 115 °C
Heavy Metals	4.393 ppm
Anion	Nitrate (NO ₃) : < 0.001% Phosphate (PO ₄) : < 5 ppm Sulfate (SO ₄) : < 0.002%
Cation	Ammonium (NH ₄) : < 0.002% Barium (Ba) : 0.005% Calcium (Ca) : 0.01% Iron (Fe) : 4.5 ppm Manganese (Mn) : 0.624 ppm Potassium (K) : 0.004% Sodium (Na) : 0.000003% Strontium (Sr) : 0.005%
Insoluble material	0.0021%
Assay by titration	100.83%
Grade	ACS reagent
Storage	Store at RT

Certificate of Analysis

Catalog Number: 01237

Lot Number: 002126-2019-201

Remarks

See material safety data sheet for additional information

For laboratory use only

The foregoing is a copy of the Certificate of Analysis as provided by our supplier

A handwritten signature in black ink, appearing to read 'Bala Kumar', with a stylized flourish at the end.

Bala Kumar
Quality Control Manager



Certificate of Analysis

Cyanide Standard, 1000 ppm CN⁻

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

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

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

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

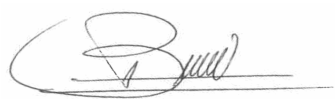
Test	Specification	Result
Appearance	Colorless liquid	Passed
Cyanide (CN ⁻)	995-1005 ppm	1000 ppm

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

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

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

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

A handwritten signature in black ink, appearing to read 'L. Briceno', with a horizontal line underneath.

Luis Briceno (11/22/2024)
Operations Supervisor

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Certificate of Analysis

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

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

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

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

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

Test	Specification	Result
Appearance	Colorless liquid	Passed

*Not a certified value.

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

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

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

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



Jose Pena (11/11/2024)
Operations Manager

This product was tested in an ISO 17025 Accredited Laboratory

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W3163 Rec. on 12/10/24 by IZ

Certificate of Analysis



Material BDH9284-2.5KG
Material Description BDH SODIUM CARB ANHYD ACS 2.5KG
Grade U S P REAGENT (ACS GRADE)

Batch 24E3156178
Reassay Date 09/30/2027
CAS Number 497-19-8
Molecular Formula Na₂CO₃
Molecular Mass 105.99

Date of Manufacture 09/01/2023
Storage Room Temperature
Material is hygroscopic. Protect from Moisture.
Additional Product Description:

Characteristics	Specifications	Measured Values
Appearance	Fine white granular powder	Fine white granular powder
Calcium	<= 0.03 %	0.003 %
Chloride	<= 0.001 %	0.0003 %
Heavy Metals (as Pb)	<= 0.0005 %	0.0001 %
Insolubles	<= 0.01 %	0.001 %
Iron	<= 0.0005 %	0.0001 %
Loss on Heating	<= 1.0 %	0.03 %
Magnesium	<= 0.005 %	0.001 %
Phosphate	<= 0.001 %	0.001 %
Potassium	<= 0.005 %	0.003 %
Purity	>= 99.5 %	100.0 %
Silica	<= 0.005 %	0.001 %
Sulfur Compounds	<= 0.003 %	0.002 %
Extra Description:	Meets Reagent Specifications for testing USP/NF monographs	

Internal ID #: 710

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



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

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

Internal ID #: 322

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

Certificate of Analysis

Sodium Hypochlorite Solution, 5% available Chlorine

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

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

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

Test	Specification	Result	NIST SRM#
Appearance	Colorless to greenish-yellow liquid	Passed	
Assay (vs. Sodium Thiosulfate/Starch)	4.75-5.25 % (w/w) Cl_2	5.17 % (w/w) Cl_2	136

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

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

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

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

Jose Pena (01/17/2025)
Operations Manager

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

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



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

Certificate of Analysis

Test	Specification	Result
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	≤ 5	3
ECD Sensitive Impurities (as Heptachlor Epoxide) Single Peak (pg/mL)	≤ 10	1
ECD-Sensitive Impurities (as Ethylene Dibromide) - Single Impurity Peak (ng/mL)	≤ 5	1
Assay (Total Saturated C ₆ Isomers) (by GC, corrected for water)	$\geq 99.5 \%$	99.7 %
Assay (as n-Hexane) (by GC, corrected for water)	$\geq 95 \%$	98 %
Color (APHA)	≤ 10	5
Residue after Evaporation	≤ 1.0 ppm	0.1 ppm
Substances Darkened by H ₂ SO ₄	Passes Test	Passes Test
Water (by KF, coulometric)	$\leq 0.05 \%$	< 0.01 %

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

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

Jamie Croak
Director Quality Operations, Bioscience Production

PERCENT SOLID

Supervisor: Iwona
Analyst: jignesh
Date: 3/25/2025

OVENTEMP IN Celsius(°C): 107
Time IN: 17:00
In Date: 03/24/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 103
Time OUT: 08:11
Out Date: 03/25/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLID- OVEN

QC:LB135155

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
Q1623-05	SVOC-GPC-BLANK	1	1.00	1.00	2.00	2.00	100.0	
Q1623-06	PEST-GPC-BLANK	2	1.00	1.00	2.00	2.00	100.0	
Q1623-07	PEST-GPC-BLANK-SPIKE	3	1.00	1.00	2.00	2.00	100.0	
Q1623-08	PCB-GPC-BLANK	4	1.00	1.00	2.00	2.00	100.0	
Q1623-09	PCB-GPC-BLANK-SPIKE	5	1.00	1.00	2.00	2.00	100.0	
Q1623-10	SVOC-GPC2-BLANK	6	1.00	1.00	2.00	2.00	100.0	
Q1623-11	PEST-GPC2-BLANK	7	1.00	1.00	2.00	2.00	100.0	
Q1623-12	PEST-GPC2-BLANK-SPIKE	8	1.00	1.00	2.00	2.00	100.0	
Q1623-13	PCB-GPC2-BLANK	9	1.00	1.00	2.00	2.00	100.0	
Q1623-14	PCB-GPC2-BLANK-SPIKE	10	1.00	1.00	2.00	2.00	100.0	
Q1626-01	CO-32-1	11	1.14	10.23	11.37	10.84	94.8	
Q1630-01	VNJ-206	12	1.15	10.39	11.54	10.26	87.7	
Q1631-01	364	13	1.00	1.00	2.00	2.00	100.0	CONCRETE sample
Q1631-04	359	14	1.00	1.00	2.00	2.00	100.0	CONCRETE sample
Q1632-01	PIER-1-2	15	1.17	10.40	11.57	11.09	95.4	
Q1633-01	SLG	16	1.15	10.50	11.65	4.7	33.8	sludge sample
Q1634-01	HR-01-032425	17	1.16	9.45	10.61	9.77	91.1	
Q1634-02	HR-01-032425-E2	18	1.13	10.66	11.79	10.75	90.2	
Q1634-03	HR-04-032425	19	1.13	10.84	11.97	11.04	91.4	
Q1634-04	HR-04-032425-E2	20	1.12	10.69	11.81	10.82	90.7	
Q1635-01	TP-2	21	1.19	10.15	11.34	10.26	89.4	
Q1635-02	TP-2-EPH	22	1.17	10.23	11.4	10.29	89.1	
Q1635-03	TP-2-VOC	23	1.15	12.12	13.27	11.88	88.5	

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

WORKLIST(Hardcopy Internal Chain)

13355

WorkList Name : %1-032425

WorkList ID : 188470

Department : Wet-Chemistry

Date : 03-24-2025 08:43:57

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1623-05	SVOC-GPC-BLANK	Solid	Percent Solids	Cool 4 deg C	CHEM02	F11	03/21/2025	Chemtech -SO
Q1623-06	PEST-GPC-BLANK	Solid	Percent Solids	Cool 4 deg C	CHEM02	F11	03/21/2025	Chemtech -SO
Q1623-07	PEST-GPC-BLANK-SPIKE	Solid	Percent Solids	Cool 4 deg C	CHEM02	F11	03/21/2025	Chemtech -SO
Q1623-08	PCB-GPC-BLANK	Solid	Percent Solids	Cool 4 deg C	CHEM02	F11	03/21/2025	Chemtech -SO
Q1623-09	PCB-GPC-BLANK-SPIKE	Solid	Percent Solids	Cool 4 deg C	CHEM02	F11	03/21/2025	Chemtech -SO
Q1623-10	SVOC-GPC2-BLANK	Solid	Percent Solids	Cool 4 deg C	CHEM02	F11	03/21/2025	Chemtech -SO
Q1623-11	PEST-GPC2-BLANK	Solid	Percent Solids	Cool 4 deg C	CHEM02	F11	03/21/2025	Chemtech -SO
Q1623-12	PEST-GPC2-BLANK-SPIKE	Solid	Percent Solids	Cool 4 deg C	CHEM02	F11	03/21/2025	Chemtech -SO
Q1623-13	PCB-GPC2-BLANK	Solid	Percent Solids	Cool 4 deg C	CHEM02	F11	03/21/2025	Chemtech -SO
Q1623-14	PCB-GPC2-BLANK-SPIKE	Solid	Percent Solids	Cool 4 deg C	CHEM02	F11	03/21/2025	Chemtech -SO
Q1626-01	CO-32-1	Solid	Percent Solids	Cool 4 deg C	CHEM02	F11	03/21/2025	Chemtech -SO
Q1630-01	VNJ-206	Solid	Percent Solids	Cool 4 deg C	WALS01	F11	03/21/2025	Chemtech -SO
Q1631-01	364	Solid	Percent Solids	Cool 4 deg C	PSEG03	H31	03/21/2025	Chemtech -SO
Q1631-04	359	Solid	Percent Solids	Cool 4 deg C	PSEG03	I41	03/24/2025	Chemtech -SO
Q1632-01	PIER-1-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	I41	03/24/2025	Chemtech -SO
Q1633-01	SLG	Solid	Percent Solids	Cool 4 deg C	PSEG03	I41	03/24/2025	Chemtech -SO
Q1634-01	HR-01-032425	Solid	Percent Solids	Cool 4 deg C	PSEG03	I31	03/24/2025	Chemtech -SO
Q1634-02	HR-01-032425-E2	Solid	Percent Solids	Cool 4 deg C	PSEG05	I31	03/24/2025	Chemtech -SO
Q1634-03	HR-04-032425	Solid	Percent Solids	Cool 4 deg C	PSEG05	I31	03/24/2025	Chemtech -SO
Q1634-04	HR-04-032425-E2	Solid	Percent Solids	Cool 4 deg C	PSEG05	I31	03/24/2025	Chemtech -SO
Q1635-01	TP-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	I41	03/24/2025	Chemtech -SO

Date/Time 03/24/25 13130

Raw Sample Received by: yd w/cj

Raw Sample Relinquished by: CP sm

Date/Time 03/24/25

Raw Sample Received by: CP sm

Raw Sample Relinquished by: yd w/cj

WORKLIST(Hardcopy Internal Chain)

WorkList Name : %1-032425

WorkList ID : 188470

Department : Wet-Chemistry

Date : 03-24-2025 08:43:57

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1635-02	TP-2-EPH	Solid	Percent Solids	Cool 4 deg C	PSEG03	I41	03/24/2025	Chemtech -SO
Q1635-03	TP-2-VOC	Solid	Percent Solids	Cool 4 deg C	PSEG03	I41	03/24/2025	Chemtech -SO

Date/Time 03/24/25 15:30
 Raw Sample Received by: sd woc
 Raw Sample Relinquished by: af sm

Date/Time 03/24/25 17:10
 Raw Sample Received by: af sm
 Raw Sample Relinquished by: sd woc



SHIPPING DOCUMENTS

CLIENT INFORMATION

REPORT TO BE SENT TO:

COMPANY: Walsh Construction Comp.
ADDRESS: 150 Clouet rd 11th Floor
CITY: Little Falls STATE: NJ ZIP: 07424
ATTENTION: Benie Dion Goken
PHONE: 646-285-7234 FAX:

CLIENT PROJECT INFORMATION

PROJECT NAME: Construction of shafts
PROJECT NO.: 220084 LOCATION: Queens NY
PROJECT MANAGER: Jesse Sylvestri
e-mail: jsylvestri@walshgroup.com
PHONE: 201-681-9740 FAX:

CLIENT BILLING INFORMATION

BILL TO: PO#: ADDRESS: CITY STATE: ZIP: ATTENTION: PHONE:

ANALYSIS

DATA TURNAROUND INFORMATION

FAX (RUSH) DAYS*
HARDCOPY (DATA PACKAGE): 18 DAYS*
EDD: 3 day DAYS*
*TO BE APPROVED BY CHEMTECH
STANDARD HARDCOPY TURNAROUND TIME IS 10 BUSINESS

DATA DELIVERABLE INFORMATION

☒ Level 1 (Results Only) ☐ Level 4 (QC + Full Raw Data)
☐ Level 2 (Results + QC) ☐ NJ Reduced ☐ US EPA CLP
☐ Level 3 (Results + QC) ☐ NYS ASP A ☐ NYS ASP B
+ Raw Data ☐ Other
☐ EDD FORMAT

1. TEL 506 2660
2. TEL 506 2660
3. TEL 506 2660
4. TEL 506 2660
5. TEL 506 2660
6. TEL 506 2660
7. TEL 506 2660
8. TEL 506 2660
9. TEL 506 2660
10. TEL 506 2660

ALLIANCE SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE		SAMPLE COLLECTION		# OF BOTTLES	PRESERVATIVES									COMMENTS	
			COMP	GRAB	DATE	TIME		1	2	3	4	5	6	7	8	9		
1.	CO-32-1	S	✓	✓	3/21/25	1120	20	X	X	X	X	X	X	X	X	X	15-80-3, 1 liter each, 1 liter each	
2.																		
3.																		
4.																		
5.																		
6.																		
7.																		
8.																		
9.																		
10.																		

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

RELINQUISHED BY SAMPLER:	DATE/TIME: <u>1200</u>	RECEIVED BY: <u>[Signature]</u>	Conditions of bottles or coolers at receipt: ☐ COMPLIANT ☐ NON COMPLIANT ☐ COOLER TEMP
1. <u>[Signature]</u>	DATE/TIME: <u>3/21/25</u>	RECEIVED BY: <u>[Signature]</u>	Comments: <u>MCRA Characteristics - Ignitability, Corrosivity, Reactivity - Sulfide & Cyanide</u>
RELINQUISHED BY SAMPLER:	DATE/TIME:	RECEIVED BY:	Full analyte list in SING e-mail dated 3/18/25
2. <u>[Signature]</u>	DATE/TIME:	RECEIVED BY:	<u>43-day TAT requested</u>
RELINQUISHED BY SAMPLER:	DATE/TIME: <u>1715</u>	RECEIVED BY:	Page <u>1</u> of <u>1</u>
3. <u>[Signature]</u>	DATE/TIME: <u>3-21-25</u>	RECEIVED BY:	CLIENT: ☐ Hand Delivered ☐ Other
			Shipment Complete ☐ YES ☐ NO

Laboratory Certification

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

LOGIN REPORT/SAMPLE TRANSFER

Order ID : Q1626	WALS01	Order Date : 3/21/2025 12:59:00 PM	Project Mgr :
Client Name : Walsh Construction Compai		Project Name : Walsh CO-032 Sampling	Report Type : Level 2
Client Contact : Evelyne Benie Dion Gokan		Receive DateTime : 3/21/2025 12:00:00 AM	EDD Type : Excel NY
Invoice Name : Walsh Construction Compai		Purchase Order : 5:15 pm	Hard Copy Date :
Invoice Contact : Evelyne Benie Dion Gokan			Date Signoff :

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
Q1626-01	CO-32-1	Solid	03/21/2025	11:20	VOC-TCLVOA-10		8260D		3 Bus. Days

Relinquished By : CS

Date / Time : 3-24-25 10:10

Received By : Sally

Date / Time : 03/24/25 10:10

Storage Area : VOA Refridgerator Room

LOGIN REPORT/SAMPLE TRANSFER

Order ID : Q1626	WALS01	Order Date : 3/21/2025 12:59:00 PM	Project Mgr :
Client Name : Walsh Construction Compai		Project Name : Walsh CO-032 Sampling	Report Type : Level 2
Client Contact : Evelyne Benie Dion Gokan		Receive DateTime : 3/21/2025 12:00:00 AM	EDD Type : Excel NY
Invoice Name : Walsh Construction Compai		Purchase Order : 5:15 pm	Hard Copy Date :
Invoice Contact : Evelyne Benie Dion Gokan			Date Signoff :

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
Q1626-01	CO-32-1	Solid	03/21/2025	11:20	Gasoline Range Organics		8015D		3 Bus. Days

Relinquished By :

Date / Time : 3-24-25 1010

Received By :

Date / Time : 03/24/25 10:10

Storage Area : VOA Refridgerator Room