

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 OR	Method qualifiers "P" for ICP instrument "PM" for ICP when Microwave Digestion is used "CV" for Manual Cold Vapor AA "AV" for automated Cold Vapor AA "CA" for MIDI-Distillation Spectrophotometric "AS" for Semi – Automated Spectrophotometric "C" for Manual Spectrophotometric "T" for Titrimetric "NR" for analyte not required to be analyzed Indicates the analyte's concentration exceeds the calibrated range of the instrument for that specific analysis.
Q	Indicates the LCS did not meet the control limits requirements
Н	Sample Analysis Out Of Hold Time



LAB CHRONICLE

OrderID: Q3740

Contact:

Client: G Environmental

Gary Landis

OrderDate: 11/26/2025 4:30:00 PM **Project:** Dimond

Location: --Select--,A11,VOA Lab

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q3740-01	WC1	SOIL			11/26/25 13:15			11/26/25
			Corrosivity	9045D	13.13		12/01/25 08:47	
			Hexavalent Chromium	7196A		12/01/25	12/01/25 13:13	
			Ignitability	1030			12/03/25 15:00	
			рН	9045D			12/01/25 08:47	
			Reactive Cyanide	9012B		12/02/25	12/03/25 11:32	
			Reactive Sulfide	9034		12/01/25	12/01/25 11:33	
Q3740-01DL	WC1DL	SOIL			11/26/25 13:15			11/26/25
			Hexavalent Chromium	7196A		12/01/25	12/01/25 13:15	



SAMPLE DATA



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

Fax: 908 789 8922

Report of Analysis

Client: G Environmental

Project: Dimond Client Sample ID: WC1 Lab Sample ID: Q3740-01 Date Collected: 11/26/25 13:15

Date Received: 11/26/25 SDG No.: Q3740 Matrix: SOIL % Solid: 90

			_						
Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Corrosivity	6.06	Н	1	0	0	pН		12/01/25 08:47	9045D
Hexavalent Chromium	209	OR	1	0.076	0.44	mg/Kg	12/01/25 09:00	12/01/25 13:13	7196A
Ignitability	NO		1	0	0	oC		12/03/25 15:00	1030
pН	6.06	Н	1	0	0	pН		12/01/25 08:47	9045D
Reactive Cyanide	0.016	J	1	0.0083	0.050	mg/Kg	12/02/25 15:30	12/03/25 11:32	9012B
Reactive Sulfide	1.57	J	1	0.20	10.0	mg/Kg	12/01/25 09:10	12/01/25 11:33	9034

pH result reported at temperature 23.2 °C, pH result reported at temperature 23.2 °C

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

D = Dilution

Comments:

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



Q3740-01DL

Lab Sample ID:

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

Fax: 908 789 8922

Report of Analysis

Client:G EnvironmentalDate Collected:11/26/25 13:15Project:DimondDate Received:11/26/25Client Sample ID:WC1DLSDG No.:Q3740

Matrix: SOIL % Solid: 90

Parameter	Conc.	Qua.	DF MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Hexavalent Chromium	4400	D	200 15.3	87.1	mg/Kg	12/01/25 09:00	12/01/25 13:15	7196A

Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

D = Dilution

Q = indicates LCS control criteria did not meet requirements

H = Sample Analysis Out Of Hold Time

J = Estimated Value

B = Analyte Found in Associated Method Blank

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

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

OR = Over Range

N =Spiked sample recovery not within control limits



QC RESULT SUMMARY





Client: G Environmental SDG No.: Q3740

Analyte		Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID:	ICV	рН	7.00	7	100	90-110	12/01/2025
Sample ID:	CCV1	рН	2.01	2.00	101	90-110	12/01/2025
Sample ID:	CCV2	рН	12.02	12.00	100	90-110	12/01/2025





Client: G Environmental SDG No.: Q3740

Analyte		Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID: Corrosivity	ICV	На	7.00	7	100	90-110	12/01/2025
Sample ID: Corrosivity	CCV1	рН	2.01	2.00	101	90-110	12/01/2025
Sample ID: Corrosivity	CCV2	рН	12.02	12.00	100	90-110	12/01/2025



Client: G Environmental SDG No.: Q3740

Analyte		Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID: Hexavalent	ICV Chromium	mg/L	0.472	0.5	94	90-110	12/01/2025
Sample ID: Hexavalent	CCV1 Chromium	mg/L	0.476	0.5	95	90-110	12/01/2025
Sample ID: Hexavalent	CCV2 Chromium	mg/L	0.474	0.5	95	90-110	12/01/2025
Sample ID: Hexavalent	CCV3 Chromium	mg/L	0.471	0.5	94	90-110	12/01/2025



Client: G Environmental SDG No.: Q3740

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	12/03/2025
Sample ID:	CCV1						
Reactive	Cyanide	mg/L	0.24	0.25	96	90-110	12/03/2025
Sample ID:	CCV2						
Reactive	Cyanide	mg/L	0.24	0.25	96	90-110	12/03/2025





Client: G Environmental SDG No.: Q3740

Project: Dimond RunNo.: LB138094





Initial and Continuing Calibration Blank Summary

Client: G Environmental SDG No.: Q3740

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	12/01/2025
Sample ID: CCB1 Hexavalent Chromium	mg/L	< 0.0050	0.0050	U	0.0029	0.01	12/01/2025
Sample ID: CCB2 Hexavalent Chromium	mg/L	< 0.0050	0.0050	U	0.0029	0.01	12/01/2025
Sample ID: CCB3 Hexavalent Chromium	mg/L	< 0.0050	0.0050	U	0.0029	0.01	12/01/2025





Initial and Continuing Calibration Blank Summary

Client: G Environmental SDG No.: Q3740

Analyte		Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID:	ICB1							
Reactive	Cyanide	mg/L	0.0017	0.0025	J	0.00096	0.005	12/03/2025
Sample ID:	CCB1							
Reactive	Cyanide	mg/L	0.0017	0.0025	J	0.00096	0.005	12/03/2025
Sample ID:	CCB2							
Reactive	Cyanide	mg/L	0.0018	0.0025	J	0.00096	0.005	12/03/2025



Initial and Continuing Calibration Blank Summary

Client: G Environmental SDG No.: Q3740

Project: Dimond RunNo.: LB138094





Preparation Blank Summary

Client: G Environmental SDG No.: Q3740

Project: Dimond

Analyte	Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID: PB17075 Hexavalent Chromium	6BL mg/Kg	< 0.2000	0.2000	U	0.07	0.4	12/01/2025
Sample ID: PB17075 Reactive Sulfide	8BL mg/Kg	< 5.0000	5.0000	U	0.201	10	12/01/2025
Sample ID: PB17080 Reactive Cyanide	2BL mg/Kg	0.014	0.0250	J	0.0084	0.05	12/03/2025



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Matrix Spike Summary

Client: G Environmental SDG No.: Q3740

Project: Dimond Sample ID: Q3733-01

Client ID: SU-04-11-26-2025MS Percent Solids for Spike Sample: 91.5

		Acceptance	Spiked	Conc.	Sample	Conc.	Spike	Dilution	%		Analysis	
Analyte	Units	Limit %R	Result	Qualifier	Result	Qualifier	Added	Factor	Rec	Qual	Date	
Hexavalent Chromium	mg/Kg	75-125	1340		0.075	U	1400	40	96		12/01/2025	_



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Matrix Spike Summary

Client: G Environmental SDG No.: Q3740

Project: Dimond Sample ID: Q3733-01

Client ID: SU-04-11-26-2025MS Percent Solids for Spike Sample: 91.5

		Acceptance	Spiked	Conc.	Sample	Conc.	Spike	Dilution	%		Analysis	
Analyte	Units	Limit %R	Result	Qualifier	Result	Qualifier	Added	Factor	Rec	Qual	Date	
Hexavalent Chromium	mg/Kg	85-115	39.2		0.075	U	43.7	2	90		12/01/2025	_



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Matrix Spike Summary

Client: G Environmental SDG No.: Q3740

Project: Dimond Sample ID: Q3733-01

Client ID: SU-04-11-26-2025MS Percent Solids for Spike Sample: 91.5

		Acceptance	Spiked	Conc.	Sample	Conc.	Spike	Dilution	%		Analysis	
Analyte	Units	Limit %R	Result	Qualifier	Result	Qualifier	Added	Factor	Rec	Qual	Date	
Hexavalent Chromium	mg/Kg	75-125	36.0		0.075	U	43.7	2	82		12/01/2025	



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Duplicate Sample Summary

Client: G Environmental SDG No.: Q3740

Project: Dimond Sample ID: Q3733-01

Client ID: SU-04-11-26-2025DUP Percent Solids for Spike Sample: 91.5

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/ AD	Qual	Analysis Date	
Hexavalent Chromium	mg/Kg	+/-20	0.075	U	0.075	U	1	0		12/01/2025	



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Duplicate Sample Summary

Client: G Environmental SDG No.: Q3740

Project: Dimond Sample ID: Q3740-01

Client ID: WC1DUP 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
рН	pН	+/-20	6.06		6.08		1	0.33		12/01/2025
Corrosivity	pН	+/-20	6.06		6.08		1	0.33		12/01/2025
Reactive Sulfide	mg/Kg	+/-20	1.57	J	1.57	J	1	0		12/01/2025
Ignitability	oC	+/-20	NO		NO		1	0		12/03/2025
Reactive Cyanide	mg/Kg	+/-20	0.016	J	0.016	J	1	0		12/03/2025



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Laboratory Control Sample Summary

Client: G Environmental SDG No.: Q3740

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID PB170756BS								
Hexavalent Chromium	mg/Kg	20	18.9		94	1	84-110	12/01/2025



RAW DATA



Analytical Summary Report

Analysis Method: 9045D Analyst By: jignesh

Parameter: pH Supervisor Review By : Iwona

Run Number: LB138062 **Slope :** 98.6

BalanceID: WC SC-7 pH Meter ID : WC PH METER-1

Calibration Standards	Chemtech Log#
PH 4 BUFFER SOLUTION	W3178
BUFFER PH 7.00 GREEN 1PINT PK6	W3093
PH 10.01 BUFFER, COLOR CD 475ML	W3191
buffer solution pH 7 yellow	W3217
Buffer Solution, PH2 (500ml)	W3161
pH 12.00 Buffer	W3200

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

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

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

				Tilo d orbot	Volume	Mamma ma buma	Result			
Seq	LabID	DF	Matrix	Weight (gm)	(ml)	Temperature (°C)	(pH)	Anal Date	Anal Time	
1	CAL1	1	Water	NA	NA	20.2	4.01	12/01/2025	08:10	
2	CAL2	1	Water	NA	NA	20.2	7.00	12/01/2025	08:11	
3	CAL3	1	Water	NA	NA	20.3	10.02	12/01/2025	08:14	
4	ICV	1	Water	NA	NA	20.3	7.00	12/01/2025	08:15	
5	CCV1	1	Water	NA	NA	20.2	2.01	12/01/2025	08:19	
6	Q3720-01	1	Solid	20.02	20	22.6	6.78	12/01/2025	08:35	
7	Q3735-01	1	Solid	20.03	20	22.9	6.80	12/01/2025	08:37	
8	Q3740-01	1	Solid	20.02	20	23.2	6.06	12/01/2025	08:47	
9	Q3740-01DUP	1	Solid	20.03	20	23.5	6.08	12/01/2025	08:50	
10	CCV2	1	Water	NA	NA	20.3	12.02	12/01/2025	08:52	

Reviewed By:Iwona On:12/1/2025 2:08:29 PM Inst Id :WC PH METER-1

WORKLIST(Hardcopy Internal Chain)

WorkList ID: 193376

PH W Q3731

WorkList Name:

Department: Wet-Chemistry

Date: 12-01-2025 07:47:46

Collect Date Method

Raw Sample

Storage Location

Customer

Preservative

Test

Matrix

Customer Sample

Sample

핊 픕 핂

Solid Solid Solid

BUR-25-0059 BU-3-112625

Q3720-01 5

Q3735-01 Q3740-01

WC1

9045D 9045D

11/25/2025

E42 **A11**

PSEG03 PSEG05

Cool 4 deg C Cool 4 deg C

Cool 4 deg C

11/26/2025 9045D

--Sele

GENV01

11/26/2025

NO 138062

Raw Sample Relinquished by: Date/Time \2)01\25 Raw Sample Received by:

Page 1 of 1

Date/Time 12/01/15 04:55

Raw Sample Relinquished by: Raw Sample Received by:



Analytical Summary Report

Analysis Method: 9045D Analyst By: jignesh

Parameter: Corrosivity Supervisor Review By : Iwona

Run Number: LB138063 **Slope :** 98.6

Calibration Standards	Chemtech Log#
PH 4 BUFFER SOLUTION	W3178
BUFFER PH 7.00 GREEN 1PINT PK6	W3093
PH 10.01 BUFFER, COLOR CD 475ML	W3191
buffer solution pH 7 yellow	W3217
Buffer Solution, PH2 (500ml)	W3161
pH 12.00 Buffer	W3200

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

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

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

Seq	LabID	DF	Matrix	Weight (gm)	Volume (ml)	Temperature (°C)	Result (pH)	Anal Date	Anal Time
1	CAL1	1	Water	NA	NA	20.2	4.01	12/01/2025	08:10
2	CAL2	1	Water	NA	NA	20.2	7.00	12/01/2025	08:11
3	CAL3	1	Water	NA	NA	20.3	10.02	12/01/2025	08:14
4	ICV	1	Water	NA	NA	20.3	7.00	12/01/2025	08:15
5	CCV1	1	Water	NA	NA	20.2	2.01	12/01/2025	08:19
6	Q3740-01	1	Solid	20.02	20	23.2	6.06	12/01/2025	08:47
7	Q3740-01DUP	1	Solid	20.03	20	23.5	6.08	12/01/2025	08:50
8	CCV2	1	Water	NA	NA	20.3	12.02	12/01/2025	08:52

Reviewed By:Iwona On:12/1/2025 2:08:21 PM Inst Id :WC PH METER-1

Date/Time 12/01/15 Raw Sample Received by:

Raw Sample Relinquished by:

Page 1 of 1

Date/Time Mol \$4 07:55

Raw Sample Received by:

Raw Sample Relinquished by:

WORKLIST(Hardcopy Internal Chain)

WorkList ID: 193377

Raw Sample

Storage Location

Customer

Preservative

Date: 12-01-2025 07:48:57

Collect Date Method

11/26/2025 9045D

A11

GENV01

Cool 4 deg C

Corrosivity

Solid

WC1

Q3740-01

C)0861 W

corrsovity q3740 WorkList Name:

Test

Matrix

Customer Sample

Sample

Department: Wet-Chemistry





Analytical Summary Report

Analysis Method: 7196A ANALYST: rubina

Parameter: Hexavalent Chromium SUPERVISOR REVIEW BY: Iwona

Run Number: LB138067 pH Meter ID: WC pH Meter-1

Reagent/Standard	Lot/Log #
hexavalent chromium color reagent	WP115855
5N sulfuric acid	WP115340
HNO3 Hex-Chrome, 5M	WP115339
Hexchrome Cleaning Solution	WP115854

Intercept: 0.0004 Slope: 0.7633 Regression: 0.999963

		True Value		Initial Vol	Final Vol	рН	рН	Absorb.at	Absorb.at 540nm		Result	%D	Anal	Anal	
Seq	Lab ID	(mg/1)	DF	(ml)	(ml)	HN03	H2SO4	Backgrnd	Color	Difference	(mg/L)		Date	Time	
1	CAL1	0	1	100	100	7.25	1.81	0.000	0.000	0.000	-0.00		12/01/2025	13:00	
2	CAL2	0.01	1	100	100	7.45	1.92	0.000	0.008	0.008	0.009	-10	12/01/2025	13:00	
3	CAL3	0.025	1	100	100	7.54	1.98	0.000	0.020	0.020	0.025	0	12/01/2025	13:01	
4	CAL4	0.05	1	100	100	7.50	2.00	0.000	0.039	0.039	0.050	0	12/01/2025	13:01	
5	CAL5	0.1	1	100	100	7.40	1.92	0.000	0.079	0.079	0.102	2	12/01/2025	13:02	
6	CAL6	0.5	1	100	100	7.41	1.97	0.000	0.377	0.377	0.493	-1.4	12/01/2025	13:02	
7	CAL7	1	1	100	100	7.47	1.88	0.000	0.766	0.766	1.003	0.3	12/01/2025	13:03	

Reviewed By: Iwona On:12/1/2025 3:05:26 PM Inst Id :SPECTROPHOTOME



Analytical Summary Report

Analysis Method: 7196A ANALYST:rubina

Parameter: Hexavalent Chromium SUPERVISOR REVIEW BY: Iwona

Run Number: LB138067 pH Meter ID:WC pH Meter-1

		True Value		Initial Vol	Final Vol	рH	рН	Absorb.a	t540nm	Absorbance	Intermediate Result	Anal	Anal
Seq	Lab ID		DF	(ml/gm)	(ml)	ни03	H2SO4	Backgrnd	Color	Difference	(mg/L)	Date	Time
1	ICV	0.5	1	100	100	7.47	1.91	0.000	0.361	0.361	0.472	12/01/2025	13:03
2	ICB		1	100	100	7.42	1.88	0.000	0.000	0.000	-0.001	12/01/2025	13:04
3	CCV1	0.5	1	100	100	7.52	1.85	0.000	0.364	0.364	0.476	12/01/2025	13:04
4	CCB1		1	100	100	7.55	1.80	0.000	0.001	0.001	0.001	12/01/2025	13:05
5	RL Check	0.01	1	100	100	7.42	1.89	0.000	0.009	0.009	0.011	12/01/2025	13:05
6	PB170756BL		1	2.50	100	7.44	1.88	0.000	0.000	0.000	-0.001	12/01/2025	13:06
7	PB170756BS	20	1	2.50	100	7.40	1.93	0.000	0.361	0.361	0.472	12/01/2025	13:06
8	Q3732-01		1	2.56	100	7.50	1.90	0.004	0.004	0.000	-0.001	12/01/2025	13:07
9	Q3733-01		1	2.54	100	7.55	1.90	0.000	0.000	0.000	-0.001	12/01/2025	13:07
10	Q3733-01DU		1	2.55	100	7.57	1.94	0.000	0.000	0.000	-0.001	12/01/2025	13:08
11	Q3733-01MS	40	2	2.55	100	7.52	1.91	0.000	0.321	0.321	0.420	12/01/2025	13:08
12	Q3733-01MS	1284	40	2.56	100	7.57	1.89	0.000	0.601	0.601	0.787	12/01/2025	13:09
13	Q3733-01MS	40	2	2.54	100	7.58	1.93	0.000	0.348	0.348	0.455	12/01/2025	13:09
14	Q3739-01		1	2.55	100	7.57	2.10	0.036	3.149	3.113	4.078	12/01/2025	13:10
15	Q3739-02		1	2.58	100	7.36	2.18	0.036	3.790	3.754	4.918	12/01/2025	13:10
16	CCV2	0.5	1	100	100	7.39	2.07	0.000	0.362	0.362	0.474	12/01/2025	13:11
17	CCB2		1	100	100	7.33	2.02	0.000	0.000	0.000	-0.001	12/01/2025	13:12
18	Q3739-03		1	2.52	100	7.36	2.12	0.038	0.184	0.146	0.191	12/01/2025	13:12
19	Q3739-04		1	2.57	100	7.39	2.07	0.038	0.583	0.545	0.713	12/01/2025	13:13
20	Q3740-01		1	2.55	100	7.40	2.11	0.038	3.700	3.662	4.797	12/01/2025	13:13
21	Q3739-01		100	2.55	100	7.57	2.10	0.000	0.450	0.450	0.589	12/01/2025	13:14
22	Q3739-02		200	2.58	100	7.36	2.18	0.000	0.591	0.591	0.774	12/01/2025	13:14
23	Q3740-01		200	2.55	100	7.40	2.11	0.001	0.387	0.386	0.505	12/01/2025	13:15
24	CCV3	0.5	1	100	100	7.44	1.98	0.000	0.360	0.360	0.471	12/01/2025	13:15
25	CCB3		1	100	100	7.45	1.94	0.000	0.001	0.001	0.001	12/01/2025	13:16

Analytical Summary Report

Analysis Method: 9034

Parameter: Reactive Sulfide

Run Number: LB138071

ANALYST: rubina

SUPERVISOR REVIEW BY: Iwona

Constant: 16000

Normality1: 0.025

Normality2: 0.025

Reagent/Standard	Lot/Log #
SODIUM THIOSULFATE, 0.025N, 4LITRE	W3248
IODINE SOLUTION .025N 1L	W3213
Starch Solution, 4L	W3149

Seq	Lab ID	True Value (mg/l)	DF	Initial Weight (g)	Final Volume (ml)	T1 (ml)	T2 Initial	T2 Final	T2 Diff. (ml)	T1 - T2 Diff (mL)	Value Corrected With Blank	Result (ppm)	Anal Date	Anal Time
1	PB170758BL		1	5.00	50	2.00	0.00	1.92	1.92	0.08	0.00	0.00	12/01/2025	11:30
2	Q3740-01		1	5.08	50	2.00	0.00	1.90	1.90	0.10	0.02	1.57	12/01/2025	11:33
3	Q3740-01DUP		1	5.08	50	2.00	0.00	1.90	1.90	0.10	0.02	1.57	12/01/2025	11:36

T1 = Titrant1

T2 = Titrant2

T2 Diff = T2 Final - T2 Initial

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

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

Reviewed By:Iwona On:12/3/2025 4:55:51 PM Inst Id :FLAME LB :LB138093



Analytical Summary Report

Analysis Method: 1030 Reviewed By: rubina

Parameter: Ignitability Supervisor Review By: Iwona

Run Number: LB138093

Seq	LabID	ClientID	DF	matrix	Result Status	Burning Rate	Anal Date	Anal Time
1	Q3740-01	WC1	1	Solid	NO	0.00	12/03/2025	15:00
2	Q3740-01DUP	WC1DUP	1	Solid	NO	0.00	12/03/2025	15:07
3	Q3750-01	FENCE WC-1	1	Solid	NO	0.00	12/03/2025	15:15
4	Q3750-04	FENCE WC-2	1	Solid	NO	0.00	12/03/2025	15 : 22
5	Q3750-07	FENCE WC-1	1	Solid	NO	0.00	12/03/2025	15:30
6	Q3750-08	FENCE WC-2	1	Solid	NO	0.00	12/03/2025	15 : 38
7	Q3753-03	MOO-25-334-337	1	Solid	NO	0.00	12/03/2025	15:46
8	Q3753-05	AR520-0002	1	Solid	NO	0.00	12/03/2025	15:54

Burning Rate = Length(mm)

Total Time(sec)

Reviewed By:Iwona On:12/3/2025 4:55:51 PM Inst Id :FLAME LB :LB138093

WORKLIST(Hardcopy Internal Chain)

(b 138093

WorkList ID: 193399

ign-12-01

WorkList Name:

Date: 12-01-2025 12:22:12

Collect Date Method

Raw Sample

Storage Location

Customer

Preservative

Test

Matrix

Customer Sample

Sample

1030 1030

11/26/2025 12/01/2025

A11 A11 A11 **A11**

GENV01

Cool 4 deg C Cool 4 deg C Cool 4 deg C Cool 4 deg C Cool 4 deg C

Ignitability Ignitability Ignitability Ignitability

Solid Solid Solid Solid Solid Solid Solid

PSEG05

PSEG05 PSEG05

12/01/2025 1030

1030

12/01/2025

Department: Wet-Chemistry

A11 PSEG05

A22

PSEG03 PSEG03

Cool 4 deg C Cool 4 deg C

Ignitability

Ignitability Ignitability

MOO-25-334-337

AR520-0002

Q3753-05 *

FENCE WC-2

FENCE WC-2 FENCE WC-1

Q3750-07.

Q3750-08 ·

Q3753-03

FENCE WC-1

Q3750-01 ·

Q3750-04,

WC1

Q3740-01

A22

12/03/2025

1030 1030 12/03/2025 1030 12/01/2025

1817 000

Raw Sample Relinquished by:

Raw Sample Received by:

Date/Time

Date/Time 12 /03/2025

Raw Sample Relinquished by:

Raw Sample Received by:

Page 1 of 1

Reviewed By:lwona On:12/3/2025 4:56:20 PM

Test results Aquakem 7.2AQ1 Page:

Reviewed By:lwona On:12/3/2025 4:56:20 PM

LB:LB138094

Page:

Alliance Technical Group 284 Sheffield Street, Mountainside, NJ 07092

Reviewed by : \cancel{RM} Instrument ID : Konelab

12/3/2025 11:44

Test: Total CN

Sample Id	Result	Dil. 1 +	Response	Errors
ICV1 ICB1 CCV1 CCB1 PB170802BL Q3740-01 Q3740-01DUP Q3750-07 Q3750-08 Q3753-05 Q3753-03 CCV2 CCB2	94.348 1.678 236.188 1.655 1.435 1.638 1.606 1.469 1.662 1.684 1.726 244.276 1.780	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.081 0.001 0.203 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001	

N 13 Mean 45.473 SD 90.1401 CV% 198.23

Aquakem v. 7.2AQ1

Results from time period:

Wed Dec 03 10:05:16 2025

Wed Dec 03 11:37:46 2025

Sample Id	Sam	/Ctr/c/ Test short r Te	st type Result	Result unit Result date and time Stat
0.0PPBCN	Α	Total CN P	1.9995	
5.0PPBCN	Α	Total CN P	5.8553	μg/l 12/3/2025 10:23:36
10PPBCN	Α	Total CN P	9.8597	μg/l 12/3/2025 10:23:37
50PPBCN	Α	Total CN P	47.7728	μg/l 12/3/2025 10:23:38
100PPBCN	Α	Total CN P	100.2727	
250PPBCN	Α	Total CN P	248.1551	
500PPBCN	Α	Total CN P	501.0849	μg/l 12/3/2025 10:23:41
ICV1	S	Total CN P	94.3479	μg/l 12/3/2025 11:24:53
ICB1	S	Total CN P	1.6775	
CCV1	S	Total CN P	236.1877	μg/l 12/3/2025 11:24:58
CCB1	S	Total CN P	1.6547	
PB170802BL	S	Total CN P	1.4349	μg/l 12/3/2025 11:25:01
Q3740-01	S	Total CN P	1.6377	μg/l 12/3/2025 11:32:27
Q3740-01DUP	S	Total CN P	1.6063	μg/l 12/3/2025 11:32:30
Q3750-07	S	Total CN P	1.4685	µg/l 12/3/2025 11:32:31
Q3750-08	S	Total CN P	1.6617	µg/l 12/3/2025 11:32:32
Q3753-05	S	Total CN P	1.6844	ug/l 12/3/2025 11:32:34
Q3753-03	S	Total CN P	1.726 յ	ug/l 12/3/2025 11:32:36
CCV2	S	Total CN P	244.2758 μ	ıg/l 12/3/2025 11:37:44
CCB2	S	Total CN P	1.7797 µ	

Alliance Technical Group 284 Sheffield Street, Mountainside, NJ 07092

Reviewed by : RM Instrument ID : Konelab

12/3/2025 10:25

Test Total CN

Accepted

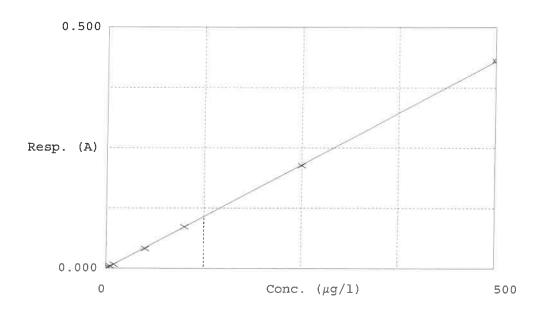
12/3/2025 10:25

Factor Bias

1162

Coeff. of det. 0.999930

Errors



	Calibrator	Response	Calc. con.	Conc.	Reference Errors
1 2 3 4 5 6	0.0PPBCN 5.0PPBCN 10PPBCN 50PPBCN 100PPBCN 250PPBCN 500PPBCN	0.002 0.005 0.008 0.041 0.086 0.213	1.9995 5.8553 9.8597 47.7728 100.2727 248.1551 501.0849	0.0000 5.0000 10.0000 50.0000 100.0000 250.0000	17.1 -1.4 -4.5 0.3 -0.7
•	200112011	0.401	501.0049	300.0000	O· 2

12/03/2025 RM

12/01/2025

RM

Soil/Sludge Hexavalent Chromium Preparation Sheet



SOP ID: M3060A,7196A-Hex.Chromium-27

SDG No: N/A Start Digest Date: 12/01/2025 Time: 09:00 Temp: 90 °C

Matrix: SOIL End Digest Date: 12/01/2025 Time: 10:00 Temp: 92 °C

1Tb etch 1210112025 10.25 Pippete ID: WC

12/01/2025 Balance ID: WC SC-7

Hood ID: HOOD#3 Digestion tube ID: M6054 Block Thermometer ID: WC-Block#1

Block ID: WC S-2, WC S-1 Filter paper ID: 400213 Prep Technician Signature:

Weigh By: RM Supervisor Signature: pH Meter ID: WC pH meter-1

Standared Name	MLS USED	STD REF. # FROM LOG	
PRE-DIGESTION SPIKE	2.0ML	WP113880	
INSOLUBLE SPIKE	0.02GM	W2202	
POST-DIGESTION SPIKE	2.0ML	WP113880	
LCSS	1.0ML	WP113881	
PBS003	50.ML	W3112	

Chemical Used	ML/SAMPLE USED	Lot Number
MAGNESIUM CHLORIDE	0.4GM	W3152
PHOSPHATE BUFFER	0.5ML	WP115410
HEX. DIGESTION SOLN.	50.0ML	WP115853
5M HNO3	5-7ML	WP115339
5N H2SO4	1-3ML	WP115340
N/A	N/A	N/A

LAB SAMPLE ID	CLIENT SAMPLE ID	Vol(ml)	Comment
CAL1	CAL1	2.5ML	W3112
CAL2	CAL2	0.2ML	WP115852
CAL3	CAL3	0.5ML	WP115852
CAL4	CAL4	1ML	WP115852
CAL5	CAL5	0.2ML	WP113880
CAL6	CAL6	1ML	WP113880
CAL7	CAL7	2.0ML	WP113880
ICV	ICV	1ML	WP113881
(CB	ICB	2.5ML	W3112
CCV	CCV	1ML	WP113880
ССВ	ССВ	2.5ML	W3112

Extraction Conformance/Non-Conformance Comments:

N/A

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location		



Lab Sample ID	Client Sample ID	Initial Welght (g)	Final Vol (mi)	рН	Sulfide	Oxidizing	Nitrate/ Nitrite	Comment	Prep Pos
PB170756BL	PBS756	2.50	100	N/A	N/A	N/A	N/A	N/A	N/A
PB170756BS	LCS756	2.50	100	N/A	N/A	N/A	N/A	N/A	N/A
Q3732-01	HD-01-11-26-2025	2.56	100	N/A	N/A	N/A	N/A	N/A	N/A
Q3733-01	SU-04-11-26-2025	2.54	100	N/A	N/A	N/A	N/A	N/A	N/A
Q3733-01DUP	SU-04-11-26-2025DUP	2.55	100	N/A	N/A	N/A	N/A	N/A	N/A
Q3733-01MSPre	SU-04-11-26-2025MSPRE	2.55	100	N/A	N/A	N/A	N/A	N/A	N/A
Q3733-01MS2Ins	SU-04-11-26-2025MS2INS	2.56	100	N/A	N/A	N/A	N/A	N/A	N/A
Q3733-01MS3Post	SU-04-11-26-2025MS3POST	2.54	100	N/A	N/A	N/A	N/A	N/A	N/A
Q3739-01	GSB1A	2.55	100	N/A	N/A	N/A	N/A	N/A	N/A
Q3739-02	GSB1B	2.58	100	N/A	N/A	N/A	N/A	N/A	N/A
23739-03	GSB2A	2.52	100	N/A	N/A	N/A	N/A	N/A	N/A
23739-04	GSB2B	2.57	100	N/A	N/A	N/A	N/A	N/A	N/A
23740-01	WC1	2.55	100	N/A	N/A	N/A	N/A	N/A	N/A

WORKLIST(Hardcopy Internal Chain)

WorkList Name: hex-12-01.

WorkList Name :	hex-12-01.	WorkList ID	ID: 193400	Department: Distillation	Distillation	Da	Date: 12-01-2025 08:00:00	05.00.00
Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date Method	Method
Q3732-01	HD-01-11-26-2025	Filoo						
20 00100		DIIOC	nexavalent Chromium	Cool 4 deg C	PSEG05	A11	11/26/2025 7196A	71964
Q3/33-01	SU-04-11-26-2025	Solid	Hexavalent Chromium	Cool 4 dea C	DOECOE			
Q3739-01	GSB1A	rilo0	Lovoini Ottorio		- 25,000	AII	11/26/2025 7196A	7196A
03730 00	1000		nexavalent Chromium	Cool 4 deg C	GENV01	A11	11/26/2025 7196A	7196A
Z0-86762	GSB1B	Solid	Hexavalent Chromium	Cool 4 den C	CENTAGO	444		
Q3739-03	GSB2A	Solid	Heveryalout Characterist		GENACI	ATT	11/26/2025 7196A	7196A
03739-04	9090		I CARVAIGIR OILIOITIUM	Cool 4 deg C	GENV01	A11	11/26/2025 7196A	7196A
	GSBSB	Solid	Hexavalent Chromium	Cool 4 deg C	GENV01	A11	44 /26/2005	1007
Q3740-01	WC1	Solid	Hexavalent Chromium	0 200			11/20/2023	/ ISOA
				Cool 4 deg C	GENV01	A11	11/26/2025 71964	7196A

11/26/2025 7196A

Date/Time #2/01/2025 Raw Sample Received by: 1214 Raw Sample Relinquished by:

Raw Sample Received by: Date/Time

Raw Sample Relinquished by:

RHCOC)

Page 1 of 1



PB170758



Weigh By:

SOP ID:	M9030B-Sulfide-13					
SDG No :	N/A		Start Digest Date	: 12/01/2025	0 Temp :	N/A
Matrix :	SOIL		End Digest Date:	: 12/01/2025 Time : 10:4	0 Temp :	N/A
Pippete ID :	wc					
Balance ID :	WC SC-7					
Hood ID:	HOOD#2	Digestion tube ID :	M5595	Block Thermometer ID :	N/A	
Block ID :	WC-DIST-BLOCK-1	Filter paper ID :	N/A	Prep Technician Signature:	Pr	1

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

pH Meter ID: N/A

Chemical Used	ML/SAMPLE USED	SED Lot Number		
0.5M ZINC ACETATE	5.0ML	WP114311		
FORMALDEHYDE	2.0ML	W3220		
N/A	N/A	N/A		
N/A	N/A	N/A		
N/A	N/A	N/A		
V/A	N/A	N/A		
N/A	N/A	N/A		
N/A	N/A	N/A		
N/A	N/A	N/A		
N/A	N/A	N/A		

Extraction Conformance/Non-Conformance Comments:

N/A

12/01/2025

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)	pН	Sulfide	Oxidizing	Nitrate/ Nitrite	Comment	Prep Pos
PB170758BL	PBS758	5.00	50	N/A	N/A	N/A	N/A	N/A	N/A
Q3740-01DUP	WC1DUP	5.08	50	N/A	N/A	N/A	N/A	N/A	N/A
Q3740-01	WC1	5.08	50	N/A	N/A	N/A	N/A	N/A	N/A





TECHNI	GAL GROUP	Soil/Sludge Reactive Cyanide Preparation S	PB170802
SOP ID:	M9012B-Total, Amer	able and Reactive Cyanide-21	
SDG No :	N/A	Start Digest Date: 12	1/02/2025 Time: 15:30 Temp: N/A
Matrix :	SOIL	End Digest Date: 12,	
Pippete ID :	<u>N/A</u>	_	
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	p Technician Signature:
Weigh By :	RM	pH Meter ID : N/A	Supervisor Signature:
Standared	Name	MLS USED STD REF. #	FROM LOG

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

Chemical Used	ML/SAMPLE USED	Lot Number
0.25N NaOH	50.0ML	WP113836
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
12/2/2025 17.15	RH (coc)	OH LWG
	Preparation Group	Analysis Group



Lab Sample ID	Client Sample ID	Initial Weight (g)	Final Vol (ml)	рН	Sulfide	Oxidizing	Nitrate/ Nitrite	Comment	Prep Pos
PB170802BL	PBS802	5.00	50	N/A	N/A	N/A	N/A	N/A	N/A
Q3740-01DUP	WC1DUP	5.04	50	N/A	N/A	N/A	N/A	N/A	N/A
Q3740-01	WC1	5.04	50	N/A	N/A	N/A	N/A	N/A	N/A
Q3750-07	FENCE WC-1	5.07	50	N/A	N/A	N/A	N/A	N/A	N/A
Q3750-08	FENCE WC-2	5.01	50	N/A	N/A	N/A	N/A	N/A	N/A
Q3753-03	MOO-25-334-337	5.04	50	N/A	N/A	N/A	N/A	N/A	N/A
Q3753-05	AR520-0002	5.01	50	N/A	N/A	N/A	N/A	N/A	N/A



Instrument ID: WC PH METER-1

Review By	jignesh	Review Or	12/2/2025 7:41:39	AM
Supervise By	Iwona	Supervise	On 12/1/2025 2:08:29	PM
SubDirectory	LB1380	062 Test	рН	
STD. NAME	ST	D 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	ı		
Chk Standard	W3 ⁻	178,W3093,W3191,W3217,W3161,W	200	

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	CAL1	CAL1	CAL	12/01/25 08:10			ОК
2	CAL2	CAL2	CAL	12/01/25 08:11			ОК
3	CAL3	CAL3	CAL	12/01/25 08:14			ОК
4	ICV	ICV	ICV	12/01/25 08:15			ОК
5	CCV1	CCV1	CCV	12/01/25 08:19			ОК
6	Q3720-01	BUR-25-0059	SAM	12/01/25 08:35			ОК
7	Q3735-01	BU-3-112625	SAM	12/01/25 08:37			ОК
8	Q3740-01	WC1	SAM	12/01/25 08:47			ОК
9	Q3740-01DUP	WC1DUP	DUP	12/01/25 08:50			ОК
10	CCV2	CCV2	CCV	12/01/25 08:52			ОК



Instrument ID: WC PH METER-1

Review By	jign	esh	Review On	12/2/2025 7:42:43 AM		
Supervise By	lwo	na	Supervise On	12/1/2025 2:08:21 PM		
SubDirectory	LB1	138063	Test	Corrosivity		
STD. NAME		STD REF.#				
ICAL Standard		N/A				
ICV Standard		N/A				
CCV Standard		N/A				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		N/A				
Chk Standard		W3178,W3093,W3191,V	W3217,W3161,W3200			

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	CAL1	CAL1	CAL	12/01/25 08:10			ок
2	CAL2	CAL2	CAL	12/01/25 08:11			ок
3	CAL3	CAL3	CAL	12/01/25 08:14			ОК
4	ICV	ICV	ICV	12/01/25 08:15			ОК
5	CCV1	CCV1	CCV	12/01/25 08:19			ок
6	Q3740-01	WC1	SAM	12/01/25 08:47			ОК
7	Q3740-01DUP	WC1DUP	DUP	12/01/25 08:50			ОК
8	CCV2	CCV2	CCV	12/01/25 08:52			ОК



Instrument ID: SPECTROPHOTOMETER-1

Review By	rub	ina	Review On	12/1/2025 3:04:36 PM		
Supervise By	lwo	na	Supervise On	12/1/2025 3:05:26 PM		
SubDirectory	LB′	138067	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		WP115855,WP115340,V	WP115339,WP115854			

Sr#	Sampleld	ClientID	QcType	Date	Comment	Operator	Status
1	CAL1	CAL1	CAL	12/01/25 13:00			ОК
2	CAL2	CAL2	CAL	12/01/25 13:00			ОК
3	CAL3	CAL3	CAL	12/01/25 13:01			ОК
4	CAL4	CAL4	CAL	12/01/25 13:01			OK
5	CAL5	CAL5	CAL	12/01/25 13:02			ОК
6	CAL6	CAL6	CAL	12/01/25 13:02			ОК
7	CAL7	CAL7	CAL	12/01/25 13:03			ОК
8	ICV	ICV	ICV	12/01/25 13:03			ОК
9	ICB	ICB	ICB	12/01/25 13:04			ОК
10	CCV1	CCV1	CCV	12/01/25 13:04			ОК
11	CCB1	CCB1	ССВ	12/01/25 13:05			ОК
12	RL Check	RL Check	RL	12/01/25 13:05			ОК
13	PB170756BL	PB170756BL	МВ	12/01/25 13:06			ОК
14	PB170756BS	PB170756BS	LCS	12/01/25 13:06			ОК
15	Q3732-01	HD-01-11-26-2025	SAM	12/01/25 13:07			ОК
16	Q3733-01	SU-04-11-26-2025	SAM	12/01/25 13:07			ОК
17	Q3733-01DUP	SU-04-11-26-2025DU	DUP	12/01/25 13:08			ОК
18	Q3733-01MSPre	SU-04-11-26-2025MS	MS	12/01/25 13:08			ОК



Instrument ID: SPECTROPHOTOMETER-1

Review By	rubina	Review On	12/1/2025 3:04:36 PM	
Supervise By	lwona	Supervise On	12/1/2025 3:05:26 PM	
SubDirectory	LB138067	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	WP115855,WF	P115340,WP115339,WP115854		

19	Q3733-01MS2Ins	SU-04-11-26-2025MS	MS	12/01/25 13:09		ОК
20	Q3733-01MS3Post	SU-04-11-26-2025MS	MS	12/01/25 13:09		ОК
21	Q3739-01	GSB1A	SAM	12/01/25 13:10		ОК
22	Q3739-02	GSB1B	SAM	12/01/25 13:10		ок
23	CCV2	CCV2	CCV	12/01/25 13:11		ок
24	CCB2	CCB2	ССВ	12/01/25 13:12		ок
25	Q3739-03	GSB2A	SAM	12/01/25 13:12		ок
26	Q3739-04	GSB2B	SAM	12/01/25 13:13		ок
27	Q3740-01	WC1	SAM	12/01/25 13:13		ок
28	Q3739-01DL	GSB1ADL	SAM	12/01/25 13:14		ок
29	Q3739-02DL	GSB1BDL	SAM	12/01/25 13:14		ок
30	Q3740-01DL	WC1DL	SAM	12/01/25 13:15		ок
31	CCV3	CCV3	CCV	12/01/25 13:15		ок
32	CCB3	CCB3	ССВ	12/01/25 13:16		ок





Instrument ID: TITRAMETRIC

Review By	rub	ina	Review On	12/1/2025 2:28:36 PM
Supervise By	lwo	ona	Supervise On	12/1/2025 2:30:36 PM
SubDirectory	LB	138071	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		W3248,W3213,W3149		

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	PB170758BL	PB170758BL	MB	12/01/25 11:30		rubina	ок
2	Q3740-01	WC1	SAM	12/01/25 11:33		rubina	ок
3	Q3740-01DUP	WC1DUP	DUP	12/01/25 11:36		rubina	ОК



Instrument ID:

FLAME

Review By	rub	ina	Review On	12/3/2025 4:32:25 PM
Supervise By	lwo	ona	Supervise On	12/3/2025 4:55:51 PM
SubDirectory	LB	138093	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#	Sampleld	ClientID	QcType	Date	Comment	Operator	Status
1	Q3740-01	WC1	SAM	12/03/25 15:00		rubina	ок
2	Q3740-01DUP	WC1DUP	DUP	12/03/25 15:07		rubina	ок
3	Q3750-01	FENCE WC-1	SAM	12/03/25 15:15		rubina	ОК
4	Q3750-04	FENCE WC-2	SAM	12/03/25 15:22		rubina	ОК
5	Q3750-07	FENCE WC-1	SAM	12/03/25 15:30		rubina	ок
6	Q3750-08	FENCE WC-2	SAM	12/03/25 15:38		rubina	ОК
7	Q3753-03	MOO-25-334-337	SAM	12/03/25 15:46		rubina	ОК
8	Q3753-05	AR520-0002	SAM	12/03/25 15:54		rubina	ОК



Instrument ID: KONELAB

Review By	Review By rubina		Review On	12/3/2025 4:52:22 PM
Supervise By	Supervise By Iwona		Supervise On	12/3/2025 4:56:20 PM
SubDirectory	SubDirectory LB138094		Test	Reactive Cyanide
STD. NAME		STD REF.#		
ICAL Standard		WP115896,WP115897,\	WP115898,WP115899,WP115900,WP1	15901,WP115902
ICV Standard		WP115903		
CCV Standard		WP115897		
ICSA Standard		N/A		
CRI Standard		N/A		
LCS Standard		N/A		
Chk Standard		WP115905,WP114324,V	WP115904	

Sr#	Sampleld	ClientID	QcType	Date	Comment	Operator	Status
1	0.0PPBCN	0.0PPBCN	CAL1	12/03/25 10:23		rubina	ОК
2	5.0PPBCN	5.0PPBCN	CAL2	12/03/25 10:23		rubina	ОК
3	10PPBCN	10PPBCN	CAL3	12/03/25 10:23		rubina	ОК
4	50PPBCN	50PPBCN	CAL4	12/03/25 10:23		rubina	ОК
5	100PPBCN	100PPBCN	CAL5	12/03/25 10:23		rubina	ОК
6	250PPBCN	250PPBCN	CAL6	12/03/25 10:23		rubina	ОК
7	500PPBCN	500PPBCN	CAL7	12/03/25 10:23		rubina	ОК
8	ICV1	ICV1	ICV	12/03/25 11:24		rubina	ОК
9	ICB1	ICB1	ICB	12/03/25 11:24		rubina	ОК
10	CCV1	CCV1	CCV	12/03/25 11:24		rubina	ОК
11	CCB1	CCB1	ССВ	12/03/25 11:24		rubina	ОК
12	PB170802BL	PB170802BL	МВ	12/03/25 11:25		rubina	ОК
13	Q3740-01	WC1	SAM	12/03/25 11:32		rubina	ОК
14	Q3740-01DUP	WC1DUP	DUP	12/03/25 11:32		rubina	ОК
15	Q3750-07	FENCE WC-1	SAM	12/03/25 11:32		rubina	ОК
16	Q3750-08	FENCE WC-2	SAM	12/03/25 11:32		rubina	ОК
17	Q3753-05	AR520-0002	SAM	12/03/25 11:32		rubina	ОК
18	Q3753-03	MOO-25-334-337	SAM	12/03/25 11:32		rubina	OK





Instrument ID: KONELAB

Review By	Review By rubina		12/3/2025 4:52:22 PM	
Supervise By	Supervise By Iwona		12/3/2025 4:56:20 PM	
SubDirectory	SubDirectory LB138094		Reactive Cyanide	
STD. NAME	STD RE	CF.#		
ICAL Standard	WP115896	,WP115897,WP115898,WP115899,WP1159		
ICV Standard	WP115903			
CCV Standard	WP115897			
ICSA Standard	N/A			
CRI Standard	N/A			
LCS Standard	N/A			
Chk Standard	WP115905	,WP114324,WP115904		

1	19	CCV2	CCV2	CCV	12/03/25 11:37	rubina	ок
2	20	CCB2	CCB2	ССВ	12/03/25 11:37	rubina	ок



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8900, Fax: 908 789 8922

Prep Standard - Chemical Standard Summary

Order ID: Q3740

Test: Corrosivity, Hexavalent Chromium, Ignitability, Percent Solids, pH, Reactive Cyanide, Reactive Sulfide

Prepbatch ID: PB170756,PB170758,PB170802,

Sequence ID/Qc Batch ID: LB138062,LB138063,LB138067,LB138071,LB138093,LB138094,

Standard ID:

WP113836,WP113838,WP113880,WP113881,WP114311,WP114324,WP115339,WP115340,WP115410,WP115853,WP115854,WP115855,WP115895,WP115896,WP115897,WP115898,WP115899,WP115900,WP115901,WP115902,WP115903,WP115904,WP115905,

Chemical ID:

E3987,M6151,M6186,M6187,M6200,W2202,W2651,W2652,W2668,W2926,W2979,W3019,W3093,W3112,W3113,W3139,W3149,W3152,W3161,W3163,W3168,W3178,W3191,W3200,W3203,W3206,W3213,W3217,W3220,W3224,W3245,W3248,W3257,



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Wet Chemistry STANDARD PREPARATION LOG

Recipe ID	NAME_	NO.	Prep Date	Expiration Date	Prepared By	<u>ScaleID</u>	<u>PipetteID</u>	Supervised By Iwona Zarych
11	Sodium hydroxide absorbing solution 0.25 N	<u>WP113836</u>	07/08/2025	12/31/2025	Rubina Mughal	CALE_8 (WC		07/08/2025
						SC-7)		

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

Recipe ID	NAME	<u>NO.</u>	Prep Date	Expiration Date	Prepared By	<u>ScaleID</u>	<u>PipetteID</u>	Supervised By Iwona Zarych
3371	Cyanide LCS Spike Solution, 5PPM	<u>WP113838</u>	07/08/2025	12/24/2025	Rubina Mughal	None	WETCHEM_F IPETTE_3 (WC)	,

FROM 1.00000ml of W3224 + 199.00000ml of WP113836 = Final Quantity: 200.000 ml





Wet Chemistry STANDARD PREPARATION LOG

Recipe ID	<u>NAME</u>	NO.	Prep Date	Expiration Date	Prepared By	<u>ScaleID</u>	<u>PipetteID</u>	Supervised By Iwona Zarych
1993	HEXAVALENTCHROMIUM STOCK STD 1, 50PPM	<u>WP113880</u>	07/10/2025	01/10/2026	Rubina Mughal	CALE_5 (WC		07/10/2025
FROM	0.14140gram of W2651 + 1000.0000	0ml of W31	12 = Final Qu	antity: 1000.00	00 ml	SC-5)		

M	0.14140gram of W2651	+ 1000.00000ml of W3112	= Final Quantity: 1000.000 ml
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Recipe ID	NAME_	NO.	Prep Date	Expiration Date	Prepared By	<u>ScaleID</u>	<u>PipetteID</u>	Supervised By Iwona Zarych
1994	HEXAVALENTCHROMIUM STOCK STD 2. 50PPM	WP113881	07/10/2025	01/10/2026	Rubina Mughal	WETCHEM_S CALE 5 (WC	None	07/40/0005
	310CK 31D 2, 30FFW					SC-5)		07/10/2025

0.14140 gram of W2652 + 1000.00000 ml of W3112 = Final Quantity: 1000.000 ml**FROM**



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Wet Chemistry STANDARD PREPARATION LOG

Recipe ID	NAME.	NO.	Prep Date	Expiration Date	Prepared By	<u>ScaleID</u>	<u>PipetteID</u>	Supervised By Jignesh Parikh			
160	0.5M ZINC ACETATE	<u>WP114311</u>	08/19/2025	02/17/2026	Rubina Mughal	CALE_8 (WC	IPETTE_3	08/19/2025			
FROM	FROM 0.88900L of W3112 + 1.00000ml of M6151 + 110.00000gram of W2926 = Final Quantity: 1000.000 ml										

Recipe ID	<u>NAME</u>	<u>NO.</u>	Prep Date	Expiration Date	Prepared By	<u>ScaleID</u>	<u>PipetteID</u>	Supervised By Jignesh Parikh
607	PYRIDINE-BARBITURIC ACID	WP114324	08/19/2025	02/17/2026	Rubina Mughal	WETCHEM_S CALE_5 (WC	Glass Pipette-A	08/19/2025
						SC-5)		

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





Wet Chemistry STANDARD PREPARATION LOG

Recipe ID	NAME	<u>NO.</u>	Prep Date	Expiration Date	Prepared By	<u>ScaleID</u>	<u>PipetteID</u>	Supervised By Jignesh Parikh
1836	HNO3 Hex-Chrome, 5M	WP115339	10/27/2025	01/28/2026	Rubina Mughal	None	None	10/27/2025
					<u> </u>			10/21/2023

FROM	320.00000ml of M6187 + 680.00000ml of W3112 = Final Quantity: 1000.000 ml
-------------	---

Recipe				Expiration	Prepared			Supervised By
<u>ID</u>	<u>NAME</u>	<u>NO.</u>	Prep Date	<u>Date</u>	<u>By</u>	<u>ScaleID</u>	<u>PipetteID</u>	Jignesh Parikh
126	5N sulfuric acid	WP115340	10/27/2025	04/27/2026	Rubina Mughal	None	None	
								10/27/2025

FROM 140.00000ml of M6186 + 860.00000ml of W3112 = Final Quantity: 1.000 L



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Wet Chemistry STANDARD PREPARATION LOG

Recipe ID	NAME_	NO.	Prep Date	Expiration Date	Prepared By	<u>ScaleID</u>	<u>PipetteID</u>	Supervised By Iwona Zarych
190	HEX CHROME PHOSPHATE BUFFER	<u>WP115410</u>	11/03/2025	05/03/2026	Rubina Mughal	WETCHEM_S CALE_8 (WC	None	11/03/2025
						SC-7)		

FROM 0.84500L of W3112 + 68.04000gram of W3206 + 87.09000gram of W3168 = Final Quantity: 1.000 L

Recipe	NAME	NO	D D.4.	Expiration	<u>Prepared</u>	01-10	D:#-ID	Supervised By
<u>ID</u>	NAME	<u>NO.</u>	Prep Date	<u>Date</u>	<u>By</u>	<u>ScaleID</u>	<u>PipetteID</u>	Iwona Zarych
148	hexchrome digestion fluid	WP115853	12/01/2025	01/01/2026	Rubina Mughal	WETCHEM_S	None	
						CALE_8 (WC		12/01/2025

FROM 120.00000gram of W3163 + 4.00000L of W3112 + 80.00000gram of W3245 = Final Quantity: 4000.000 ml



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Wet Chemistry STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	<u>ScaleID</u>	<u>PipetteID</u>	Supervised By Iwona Zarych	
3354	Hexchrome Cleaning Solution	WP115854	12/01/2025	01/28/2026	Rubina Mughal	None	None		
								12/01/2025	

	Recipe ID	<u>NAME</u>	<u>NO.</u>	Prep Date	Expiration Date	Prepared By	<u>ScaleID</u>	<u>PipetteID</u>	Supervised By Iwona Zarych
	114	hexavalent chromium color reagent	<u>WP115855</u>	12/01/2025	12/08/2025	Rubina Mughal	WETCHEM_S CALE 5 (WC	None	12/01/2025
ŀ							SC-5)		12/01/2020

FROM 0.25000gram of W2979 + 50.00000ml of E3987 = Final Quantity: 50.000 ml



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Wet Chemistry STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	<u>ScaleID</u>	<u>PipetteID</u>	Supervised By Iwona Zarych	
3456	Cyanide Intermediate Working Std, 5PPM	<u>WP115895</u>	12/03/2025	12/04/2025	Rubina Mughal	None	WETCHEM_F IPETTE_3	,	
FROM	FROM 0.25000ml of W3257 + 49.75000ml of WP113836 = Final Quantity: 50.000 ml								

Recipe				Expiration	<u>Prepared</u>			Supervised By	
<u>ID</u>	<u>NAME</u>	<u>NO.</u>	Prep Date	<u>Date</u>	<u>By</u>	<u>ScaleID</u>	<u>PipetteID</u>	Iwona Zarych	
4	Calibation standard 500 ppb	WP115896	12/03/2025	12/04/2025	Rubina Mughal	None	WETCHEM_F		
							IPETTE_3	12/03/2025	
	(WC)								

FROM 45.00000ml of WP113836 + 5.00000ml of WP115895 = Final Quantity: 50.000 ml



Wet Chemistry STANDARD PREPARATION LOG

Recipe ID	NAME	<u>NO.</u>	Prep Date	Expiration Date	Prepared By	<u>ScaleID</u>	<u>PipettelD</u>	Supervised By Iwona Zarych	
3761	Calibration-CCV CN Standard 250 ppb	<u>WP115897</u>	12/03/2025	12/04/2025	Rubina Mughal	None	WETCHEM_F IPETTE_3	12/03/2025	
FROM	FROM 2.50000ml of WP115895 + 47.50000ml of WP113836 = Final Quantity: 50.000 ml (WC)								

ROM 2.50	000ml of WP115895 +	47.50000ml of WP113836	= Final Quantity: 50.000 ml
-----------------	---------------------	------------------------	-----------------------------

Recipe				Expiration	<u>Prepared</u>			Supervised By
<u>ID</u>	<u>NAME</u>	NO.	Prep Date	<u>Date</u>	<u>By</u>	<u>ScaleID</u>	<u>PipetteID</u>	Iwona Zarych
6	Calibration Standard 100 ppb	WP115898	12/03/2025	12/04/2025	Rubina Mughal	None	WETCHEM_F	1
							IPETTE_3	12/03/2025

1.00000ml of WP115895 + 49.00000ml of WP113836 = Final Quantity: 50.000 ml **FROM**



Wet Chemistry STANDARD PREPARATION LOG

Recipe				Expiration	Prepared			Supervised By
<u>ID</u>	NAME	NO.	Prep Date	<u>Date</u>	<u>By</u>	<u>ScaleID</u>	<u>PipetteID</u>	Iwona Zarych
7	Calibration Standard 50 ppb	WP115899	12/03/2025	12/04/2025	Rubina Mughal	None	WETCHEM_F	,
							IPETTE_3	12/03/2025
FROM	0.50000ml of WP115895 + 49.50000	ml of WP11:	3836 = Final	Quantity: 50.00	00 ml		(WC)	

Recipe				Expiration	Prepared			Supervised By
<u>ID</u>	<u>NAME</u>	<u>NO.</u>	Prep Date	<u>Date</u>	<u>By</u>	<u>ScaleID</u>	<u>PipetteID</u>	Iwona Zarych
8	Calibration Standard 10 ppb	WP115900	12/03/2025	12/04/2025	Rubina Mughal	None	WETCHEM_F	
							IPETTE_3	12/03/2025

(WC)

1.00000ml of WP115896 + 49.00000ml of WP113836 = Final Quantity: $50.000 \ ml$ **FROM**



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Wet Chemistry STANDARD PREPARATION LOG

Recipe ID	NAME.	NO.	Prep Date	Expiration Date	Prepared By	<u>ScaleID</u>	<u>PipetteID</u>	Supervised By Iwona Zarych
9	Calibration Standard 5 ppb	<u>WP115901</u>	12/03/2025	12/04/2025	Rubina Mughal	None	WETCHEM_F IPETTE_3	12/03/2025
	0 50000ml of WD445000 + 40 50000		2020 - Final	O	<u> </u>		(WC)	

<u>FROM</u>	0.50000ml of WP115896 + 49.50000ml of WP113836	= Final Quantity: 50.000 r	nı

Recipe				Expiration	Prepared			Supervised By
<u>ID</u>	NAME	<u>NO.</u>	Prep Date	<u>Date</u>	<u>By</u>	<u>ScaleID</u>	<u>PipetteID</u>	lwona Zarych
167	0 ppb CN calibration std	WP115902	12/03/2025	12/04/2025	Rubina Mughal	None	None	·
								12/03/2025

FROM 50.00000ml of WP113836 = Final Quantity: 50.000 ml



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Wet Chemistry STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	<u>ScaleID</u>	<u>PipetteID</u>	Supervised By Iwona Zarych
2168	RCN ICV STD, 100 PPB	WP115903	12/03/2025	12/04/2025	Rubina Mughal	None	WETCHEM_F IPETTE_3	12/03/2025
FROM	1.00000ml of WP113838 + 49.00000	ml of WP11:	3836 = Final	Quantity: 50.00	00 ml		(WC)	

		•	

Recipe				Expiration	Prepared			Supervised By
<u>ID</u>	<u>NAME</u>	NO.	Prep Date	<u>Date</u>	<u>By</u>	<u>ScaleID</u>	<u>PipetteID</u>	Iwona Zarych
1582	Chloramine T solution, 0.014M	WP115904	12/03/2025	12/04/2025	Rubina Mughal	WETCHEM_S	Glass	
						CALE_5 (WC	Pipette-A	12/03/2025

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





Wet Chemistry STANDARD PREPARATION LOG

Recipe ID 539	NAME CN BUFFER	<u>NO.</u> WP115905	Prep Date 12/03/2025	Expiration Date 06/03/2026	Prepared By Rubina Mughal	ScaleID WETCHEM_S CALE_6 (M	PipettelD None	Supervised By Iwona Zarych 12/03/2025
FROM	138.00000gram of W2668 + 862.000	00ml of W3	112 = Final Q	tuantity: 1000.0	000 ml	SC-4)		



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)	24L1062001	05/16/2026	11/17/2025 / RUPESH	11/12/2025 / RUPESH	E3987
Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9530-33 / Hydrochloric Acid, Instra-Analyzed (cs/6x2.5L)	22G2862015	02/17/2026	02/18/2025 / Sagar	01/15/2025 / Sagar	M6151
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	07/12/2026	08/13/2025 / Sagar	08/06/2025 / Sagar	M6186
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)	24H0162012	01/28/2026	08/29/2025 / Sagar	08/08/2025 / Sagar	M6187
Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date /	Chemtech Lot #
Seidler Chemical	BA-9530-33 / Hydrochloric Acid, Instra-Analyzed (cs/6x2.5L)	24D1562005	02/10/2026	09/11/2025 / Sagar	08/25/2025 / Sagar	M6200
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.	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.	J3818-5 / SODIUM PHOSPHATE, MONOBAS/HYD, CRYS, ACS, 2.5 KG	0000225799	12/03/2025	04/05/2021 / Alexander	02/10/2020 / apatel	W2668
Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	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 /	Chemtech Lot #
PCI Scientific Supply, Inc.	31390 / 1,5-Diphenylcarbazide	MKCR6636	12/09/2027	12/09/2022 / Iwona	12/09/2022 / Iwona	W2979
Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date /	Chemtech Lot #
SIGMA ALDRICH	270970-1L / Pyridine 1L	SHBQ2113	04/03/2028	04/03/2023 / Iwona	04/03/2023 / Iwona	W3019



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 #
Seidler Chemical	DIW / DI Water	Daily Lab-Certified	07/03/2029	07/03/2024 / Iwona	07/03/2024 / Iwona	W3112
Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	PC19510-7 / Sodium Hydroxide Pellets 12 Kg	23B1556310	12/31/2025	07/08/2024 / Iwona	07/08/2024 / Iwona	W3113
Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	JTE494-6 / CHLORAMINE-T BAKER 250GM	10239484	09/09/2029	09/09/2024 / Iwona	09/09/2024 / Iwona	W3139
Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	AL70850-8 / Starch Solution, 4L	4408P62	08/31/2026	10/16/2024 / Iwona	10/16/2024 / Iwona	W3149
Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #



Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	AL13850-1 / Buffer Solution, PH2 (500ml)	2411E26	10/31/2026	12/09/2024 / Iwona	12/09/2024 / Iwona	W3161
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 / Iwona	12/10/2024 / Iwona	W3163
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	24H0856239	04/19/2028	01/03/2025 / Iwona	01/03/2025 / Iwona	W3168
Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	AL14055-3 / PH 4 BUFFER SOLUTION	2411A93	10/30/2026	04/01/2025 / JIGNESH	01/27/2025 / jignesh	W3178
Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date /	Chemtech Lot #
PCI Scientific Supply, Inc.	1601-1 / PH 10.01 BUFFER,COLOR CD 475ML	2410F80	03/31/2026	04/01/2025 / JIGNESH	03/13/2025 / jignesh	W3191
Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
			•	1	1	I



Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	EM-BX0035-3 / Barbituric Acid, 100 gms	WXBF3271V	05/16/2029	04/21/2025 / Iwona	04/21/2025 / Iwona	W3203
Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	J3246-1 / POTAS PHOSPHATE, MONO, CRYS, ACS, 500G	MKCX1379	01/31/2029	04/29/2025 / Iwona	04/29/2025 / Iwona	W3206
Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	AL35830-4 / IODINE SOLUTION .025N 1L	MK25A21527	01/20/2029	05/21/2025 / Iwona	05/21/2025 / Iwona	W3213
Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date /	Chemtech Lot #
PCI Scientific Supply, Inc.	AL14455-3 / buffer solution pH 7 yellow	2504D34	03/31/2027	07/02/2025 / jignesh	06/26/2025 / Iwona	W3217
Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Supplier PCI Scientific Supply, Inc.	ItemCode / ItemName EMD-FX0410-5 / FORMALDEHYDE SOLUTION 450ML	Lot # MKCW7614	-	=		
PCI Scientific	EMD-FX0410-5 / FORMALDEHYDE		Date	Opened By 06/26/2025 /	Received By 06/26/2025 /	Lot #



Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	PC19510-7 / Sodium Hydroxide Pellets 12 Kg	240517-B088254	03/31/2028	11/12/2025 / jignesh	10/03/2025 / lwona	W3245

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	AL69870-8 / SODIUM THIOSULFATE,0.025N,4LIT	250904J	02/28/2027	10/03/2025 / Iwona	10/03/2025 / lwona	W3248
	RE					

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	15100125	03/31/2026	11/19/2025 / Iwona	11/19/2025 / Iwona	W3257

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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Certificate of Analysis

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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This is to certify that units of the lot number above 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 purchaser, formulator or those performing further manufacturing to determine suitability based upon the intended use of the end product. Products are tested to meet the analytical requirements of the noted grade. The above information is the actual analytical results obtained.

W3019 lec 4/3/23

3050 Spruce Street, Saint Louis, MO 63103, USA

Website: www.sigmaaldrich.com Email USA: techserv@sial.com Outside USA: eurtechserv@sial.com

Product Name:

Certificate of Analysis

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

L	
	N

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.



Certificate of Analysis Page 1 of 1



Certificate of Analysis

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

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

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

Catalog Number	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 in processing aids, or any other material that	•	
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	

Derisa Bailey- Wyche

Quality Assurance Specialist - Certificate of Analysis Fair Lawn

Acetone
BAKER RESI-ANALYZED® Reagent
For Organic Residue Analysis





Material No.: 9254-03

Batch No.: 24L1062001

Manufactured Date: 2024-10-04

Expiration Date:2027-10-04

Revision No.: 0

Certificate of Analysis

	•		
Test	Specification	Decel	
Assay ((CH ₃) ₂ CO) (by GC, corrected forwater)	- Position	Result	
Color (APHA)	>= 99.4 %	99.7 %	
	<= 10	5	
Residue after Evaporation	<= 1.0 ppm	0.3 ppm	
Substances Reducing Permanganate	Passes Test		
Titrable Acid (μeq/g)	<= 0.3	Passes Test	
Fitrable Base (µeq/g)	-	0.1	
Vater (H₂O)	<= 0.6	<0.1	
ID-Sensitive Impurities (as 2-Octanol)Single Impurity Peak	<= 0.5 %	0.3 %	
··9/mc/	√~ J	['] <1	
CD Sensitive Impurities (as HeptachlorEpoxide) Single Peak pg/mL)	<= 10	1	
Dr. Laborata - B			

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

recieved on, 12/25

Country of Origin: United States

Packaging Site: Phillipsburg Mfg Ctr & DC







M6151

R-> 1/15/25

Material No.: 9530-33

Batch No.: 22G2862015 Manufactured Date: 2022-06-15

Retest Date: 2027-06-14

Revision No.: 0

Certificate of Analysis

Test	Specification	Result
ACS - Assay (as HCI) (by acid-base titrn)	36.5 - 38.0 %	
ACS - Color (APHA)	50.5 - 36.0 % ≤ 10	37.9 %
ACS - Residue after Ignition	≤ 3 ppm	5
ACS - Specific Gravity at 60°/60°F		< 1 ppm
ACS – Bromide (Br)	1.185 - 1.192	1.191
ACS - Extractable Organic Substances	≤ 0.005 %	< 0.005 %
ACS - Free Chlorine (as Cl2)	≤ 5 ppm	< 1 ppm
Phosphate (PO ₄)	≤ 0.5 ppm	< 0.5 ppm
Sulfate (SO ₄)	≤ 0.05 ppm	< 0.03 ppm
Sulfite (SO₃)	≤ 0.5 ppm	< 0.3 ppm
Ammonium (NH ₄)	≤ 0.8 ppm	0.3 ppm
Trace Impurities - Arsenic (As)	≤ 3 ppm	< 1 ppm
Trace Impurities - Aluminum (AI)	≤ 0.010 ppm	< 0.003 ppm
Arsenic and Antimony (as As)	≤ 10.0 ppb	1.3 ppb
Trace Impurities - Barium (Ba)	≤ 5.0 ppb	< 3.0 ppb
Trace Impurities - Beryllium (Be)	≤ 1.0 ppb	0.2 ppb
Trace Impurities - Bismuth (Bi)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities – Boron (B)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Cadmium (Cd)	≤ 20.0 ppb	< 5.0 ppb
Trace Impurities - Calcium (Ca)	≤ 1.0 ppb	< 0.3 ppb
	≤ 50.0 ppb	163.0 ppb
Trace Impurities - Chromium (Cr)	≤ 1.0 ppb	0.7 ppb
Trace Impurities - Cobalt (Co)	≤ 1.0 ppb	< 0.3 ppb
Trace Impurities - Copper (Cu)	≤ 1.0 ppb	< 0.1 ppb
Trace Impurities – Gallium (Ga)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities – Germanium (Ge)	≤ 3.0 ppb	< 2.0 ppb
Frace Impurities – Gold (Au)	≤ 4.0 ppb	0.6 ppb
Heavy Metals (as Pb)	≤ 100 ppb	< 50 ppb
Frace Impurities – Iron (Fe)	≤ 15 ppb	6 ppb

>>> Continued on page 2 >>>





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

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





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

Test

Specification

Result

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

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



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





Material No.: 9673-33

Batch No.: 23D2462010 Manufactured Date: 2023-03-22

Retest Date: 2028-03-20

Revision No.: 0

[m6186] Reciew Dute = 68/06/25

Certificate of Analysis

	Specification	Result
ACS - Assay (H2SO4)	95.0 - 98.0 %	96.1 %
Appearance	Passes Test	Passes Test
ACS – Color (APHA)	≤ 10	5
ACS – Residue after Ignition	≤ 3 ppm	< 1 ppm
ACS - Substances Reducing Permanganate (as SO2)	≤ 2 ppm	< 2 ppm
Ammonium (NH ₄)	≤ 1 ppm	1 ppm
Chloride (CI)	≤ 0.1 ppm	< 0.1 ppm
Nitrate (NO ₃)	≤ 0.2 ppm	< 0.1 ppm
Phosphate (PO4)	≤ 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
Frace Impurities - Boron (B)	≤ 10.0 ppb	8.5 ppb
Frace Impurities – Cadmium (Cd)	≤ 2.0 ppb	< 0.3 ppb
Frace Impurities – Chromium (Cr)	≤ 6.0 ppb	< 0.4 ppb
race Impurities – Cobalt (Co)	≤ 0.5 ppb	< 0.3 ppb
race Impurities – Copper (Cu)	≤ 1.0 ppb	< 0.1 ppb
race Impurities - Gold (Au)	≤ 10.0 ppb	0.5 ppb
leavy Metals (as Pb)	≤ 500.0 ppb	< 100.0 ppb
race Impurities – Iron (Fe)	≤ 50.0 ppb	1.3 ppb
race Impurities – Lead (Pb)	≤ 0.5 ppb	< 0.5 ppb
race Impurities – Magnesium (Mg)	≤ 7.0 ppb	0.8 ppb
race Impurities – Manganese (Mn)	≤ 1.0 ppb	< 0.4 ppb
race Impurities – Mercury (Hg)	≤ 0.5 ppb	< 0.1 ppb
race Impurities – Nickel (Ni)	≤ 2.0 ppb	0.3 ppb
race Impurities – Potassium (K)	≤ 500.0 ppb	< 2.0 ppb
race Impurities – Selenium (Se)	≤ 50.0 ppb	< 0.1 ppb
ace Impurities – Silicon (Si)	≤ 100.0 ppb	31.5 ppb
ace 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

Specification	Result
≤ 500.0 ppb	5.4 ppb
≤ 5.0 ppb	< 0.2 ppb
≤ 5.0 ppb	< 0.8 ppb
≤ 5.0 ppb	0.4 ppb
	≤ 500.0 ppb ≤ 5.0 ppb ≤ 5.0 ppb

For Laboratory, Research, or Manufacturing Use

Country of Origin: USA

Packaging Site: Phillipsburg Mfg Ctr & DC







M6187 R.D:-08108125

Material No.: 9606-03 Batch No.: 24H0162012

Manufactured Date: 2024-06-28 Retest Date: 2029-06-27

Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay (HNO3)	69.0 – 70.0 %	69.7 %
Appearance	Passes Test	Passes Test
Color (APHA)	≤ 10	5
Residue after Ignition	≤ 2 ppm	< 1 ppm
Chloride (CI)	≤ 0.08 ppm	0.03 ppm
Phosphate (PO4)	≤ 0.10 ppm	< 0.03 ppm
Sulfate (SO ₄)	≤ 0.2 ppm	< 0.2 ppm
Trace Impurities - Aluminum (AI)	≤ 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	< 1.0 ppb
Trace Impurities – Boron (B)	≤ 10.0 ppb	0.1 ppb
Trace Impurities – Cadmium (Cd)	≤ 50 ppb	< 1 ppb
Trace Impurities – Calcium (Ca)	≤ 50.0 ppb	0.3 ppb
Trace Impurities – Chromium (Cr)	≤ 30.0 ppb	0.1 ppb
Trace Impurities – Cobalt (Co)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Copper (Cu)	≤ 10.0 ppb	< 1.0 ppb
Frace Impurities – Gallium (Ga)	≤ 10.0 ppb	< 1.0 ppb
Frace Impurities – Germanium (Ge)	≤ 20 ppb	< 1 ppb
Frace Impurities – Gold (Au)	≤ 20 ppb	< 1 ppb
leavy Metals (as Pb)	≤ 100 ppb	< 50 ppb
race Impurities – Iron (Fe)	≤ 40.0 ppb	< 1.0 ppb
race Impurities – Lead (Pb)	≤ 20.0 ppb	< 1.0 ppb
race Impurities – Lithium (Li)	≤ 10.0 ppb	< 1.0 ppb
race Impurities – Magnesium (Mg)	≤ 20 ppb	< 1 ppb
race Impurities – Manganese (Mn)	≤ 10.0 ppb	< 1.0 ppb
race Impurities - Nickel (Ni)	≤ 20.0 ppb	• •

>>> Continued on page 2 >>>





Material No.: 9606-03 Batch No.: 24H0162012

Test	Specification	Result
Trace Impurities - Niobium (Nb)	≤ 50.0 ppb	< 1.0 ppb
Trace Impurities – Potassium (K)	≤ 50 ppb	< 1 ppb
Trace Impurities – Silicon (Si)	≤ 50 ppb	1 ppb
Trace Impurities – Silver (Ag)	≤ 20.0 ppb	< 1.0 ppb
Trace Impurities - Sodium (Na)	≤ 150.0 ppb	< 1.0 ppb
Trace Impurities - Strontium (Sr)	≤ 30.0 ppb	< 1.0 ppb
Trace Impurities – Tantalum (Ta)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Thallium (TI)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities ~ Tin (Sn)	≤ 20.0 ppb	< 1.0 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	13 par/ml
Particle Count - 1.0 µm and greater	≤ 10 par/ml	5 par/ml

Nitric Acid 69% CMOS





Material No.: 9606-03 Batch No.: 24H0162012

Test Specification Result

For Microelectronic Use

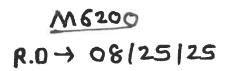
Country of Origin: USA

Packaging Site: Phillipsburg Mfg Ctr & DC

Jamie Croak

Director Quality Operations, Bioscience Production





Material No.: 9530-33 Batch No.: 24D1562005 Manufactured Date: 2024-03-18 Retest Date: 2029-03-17

Revision No.: 0

Certificate of Analysis

Test	Specification	Result
ACS - Assay (as HCI) (by acid-base titrn)	36.5 - 38.0 %	37.6 %
ACS – Color (APHA)	≤ 10	5
ACS – Residue after Ignition	≤ 3 ppm	< 1 ppm
ACS - Specific Gravity at 60°/60°F	1.185 - 1.192	1.192
ACS – Bromide (Br)	≤ 0.005 %	< 0.005 %
ACS – Extractable Organic Substances	≤ 5 ppm	< 1 ppm
ACS - Free Chlorine (as Cl2)	≤ 0.5 ppm	< 0.5 ppm
Phosphate (PO ₄)	≤ 0.05 ppm	0.03 ppm
Sulfate (SO ₄)	≤ 0.5 ppm	< 0.3 ppm
Sulfite (SO₃)	≤ 0.8 ppm	0.3 ppm
Ammonium (NH ₄)	≤ 3 ppm	< 1 ppm
Trace Impurities - Arsenic (As)	≤ 0.010 ppm	< 0.003 ppm
Trace Impurities - Aluminum (Al)	≤ 10.0 ppb	< 5.0 ppb
Arsenic and Antimony (as As)	≤ 5.0 ppb	< 3.0 ppb
Trace Impurities - Barium (Ba)	≤ 1.0 ppb	< 1.0 ppb
Trace Impurities - Beryllium (Be)	≤ 1.0 ppb	< 1.0 ppb
Trace Impurities - Bismuth (Bi)	≤ 10.0 ppb	< 10.0 ppb
Trace Impurities - Boron (B)	≤ 20.0 ppb	2.2 ppb
Trace Impurities - Cadmium (Cd)	≤ 1.0 ppb	< 1.0 ppb
Trace Impurities - Calcium (Ca)	≤ 50.0 ppb	31.0 ppb
Trace Impurities - Chromium (Cr)	≤ 1.0 ppb	0.5 ppb
Trace Impurities – Cobalt (Co)	≤ 1.0 ppb	0.2 ppb
Trace Impurities - Copper (Cu)	≤ 1.0 ppb	< 0.1 ppb
Trace Impurities - Gallium (Ga)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities – Germanium (Ge)	≤ 3.0 ppb	< 2.0 ppb
Trace Impurities – Gold (Au)	≤ 4.0 ppb	< 0.2 ppb
Heavy Metals (as Pb)	≤ 100 ppb	< 50 ppb
Trace Impurities – Iron (Fe)	≤ 15 ppb	3 ppb

>>> Continued on page 2 >>>





Material No.: 9530-33 Batch No.: 24D1562005

Test	Specification	Result
Trace Impurities - Lead (Pb)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities – Lithium (Li)	≤ 1.0 ppb	< 0.1 ppb
Trace Impurities - Magnesium (Mg)	≤ 10.0 ppb	2.2 ppb
Trace Impurities - Manganese (Mn)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Mercury (Hg)	≤ 0.5 ppb	< 0.1 ppb
Trace Impurities - Molybdenum (Mo)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities - Nickel (Ni)	≤ 4.0 ppb	0.2 ppb
Trace Impurities - Niobium (Nb)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities – Potassium (K)	≤ 9.0 ppb	< 1.0 ppb
Trace Impurities – Selenium (Se), For Information Only		< 1.0 ppb
Trace Impurities – Silicon (Si)	≤ 100.0 ppb	< 10.0 ppb
Trace Impurities – Silver (Ag)	≤ 1.0 ppb	< 0.3 ppb
Trace Impurities – Sodium (Na)	≤ 100.0 ppb	2.0 ppb
Trace Impurities – Strontium (Sr)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities – Tantalum (Ta)	≤ 1.0 ppb	< 0.9 ppb
Trace Impurities – Thallium (TI)	≤ 5.0 ppb	< 2.0 ppb
Trace Impurities - Tin (Sn)	≤ 5.0 ppb	< 0.4 ppb
Trace Impurities – Titanium (Ti)	≤ 1.0 ppb	0.2 ppb
Frace Impurities – Vanadium (V)	≤ 1.0 ppb	< 0.2 ppb
Frace Impurities – Zinc (Zn)	≤ 5.0 ppb	< 0.2 ppb
Frace Impurities – Zirconium (Zr)	≤ 1.0 ppb	< 0.1 ppb





Material No.: 9530-33 Batch No.: 24D1562005

Test Specification

Result

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

Country of Origin: USA

Packaging Site: Phillipsburg Mfg Ctr & DC

Jamie Croak

Director Quality Operations, Bioscience Production

Sodium Phosphate, Monobasic, Monohydrate, Crystal BAKER ANALYZED® A.C.S. Reagent **C**Vavantor™ J.T.Baker

(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 (NaH2PO4 · H2O)	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 (CI)	<= 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



3050 Spruce Street, Saint Louis, MO 63103, USA

Website: www.sigmaaldrich.com

Email USA:

techserv@sial.com

Outside USA: eurtechserv@sial.com 0 2926 0 715/22 peleired 0 715/22

Product Name:

Certificate of Analysis

Zinc acetate dihydrate - ACS reagent, ≥98%

Product Number:

383058

Batch Number:

MKCQ9159

Brand:

SIGALD

CAS Number:

MDL Number:

5970-45-6

MFCD00066961

Formula:

C4H6O4Zn · 2H2O

Formula Weight:

219.51 g/mol

Quality Release Date:

06 JAN 2022

H₃C O Zn²· 2H₂O

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

Larry Coers, Director Quality Control Milwaukee, WI US

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

3050 Spruce Street, Saint Louis, MO 63103, USA

Website: www.sigmaaldrich.com

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

lec: 12/08/22

exp. 12/08/27

Certificate of Analysis

1,5-Diphenylcarbazide - ACS reagent

Product Number:

259225

Batch Number:

MKCR6636

Brand:

SIAL

CAS Number:

140-22-7

MDL Number:

MFCD00003013

Formula:

C13H14N4O

Formula Weight:

242.28 g/mol

Quality Release Date:

02 JUN 2022

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

Larry Coers, Director Quality Control Milwaukee, WI US

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



RICCA CHEMICAL COMPANY

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

customerservice@riccachemical.com

Certificate of Analysis Onlong Concession Co

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 .

5 10 15 20 25 30 35 40 45 50 pН 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	II II Ta' .	
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
		V (V)

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

faul Drandon

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.

Version: 1.3 Lot Number: 4401F99 Product Number: 1551 Page 2 of 2



12/14/2022

12/31/2025

Sodium Hydroxide (Pellets)

Material: 0583

Grade: ACS GRADE Batch Number: 23B1556310

Chemical Formula: NaOH
Molecular Weight: 40

CAS #: 1310-73-2

Appearance: Storage: Room Temperature

Pellets

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

Manufacture Date:

Expiration Date:

Internal ID #: 710

Signature Additional Information

We certify that this batch conforms to the specifications listed.

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

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

28600 Fountain Parkway, Solon OH 44139 USA

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

Product meets analytical specifications of the grades listed.



12/14/2022

12/31/2025

Room Temperature

Manufacture Date:

Expiration Date:

Storage:

Sodium Hydroxide (Pellets)

Material: 0583

Grade: ACS GRADE Batch Number: 23B1556310

Chemical Formula: NaOH Molecular Weight: 40

CAS #: 1310-73-2

Appearance:

Pellets

Spec Set: 0583ACS

Internal ID #: 710

Signature Additional Information

We certify that this batch conforms to the specifications listed.

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

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

Product meets analytical specifications of the grades listed.



W3139 Received on 9/9/24 by IZ

Product No.: A12044

Product: Chloramine-T trihydrate, 98%

Lot No.: 10239484

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

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

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

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

customerservice@riccachemical.com

Certificate of Analysis

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

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

Expiration Date: AUG 2026

This product is Mercury-free.

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

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

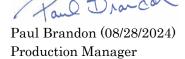
Specification	Reference
Starch Solution	APHA (4500-S2- F)
Starch Indicator Solution	APHA (4500-Cl B)
Starch Indicator	APHA (4500-SO32- B)
Starch indicator solution	APHA (2350 B)
Starch indicator solution	APHA (2350 E)
Starch Solution	APHA (510 B)
Starch Solution	APHA (5530 C)
Starch Indicator	APHA (4500-C1 C)
Starch Indicator	EPA (345.1)

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

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

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

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



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

Chem-Impex International, Inc.

Tel: (630) 766-2112 Fax: (630) 766-2218

E-mail: sales@chemimpex.com

Web site: www.chemimpex.com

Shipping and Correspondence:935 Dillon Drive
825 Dillon Drive

Wood Dale, IL 60191 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 MgCl₂•6H₂O

Molecular Weight 203.3

Appearance White crystals

Solubility 167 g in 100 mL water

Melting Point ~ 115 °CHeavy Metals4.393 ppm

Anion Nitrate (NO_3) : < 0.001%

 $\begin{aligned} &Phosphate \ (PO_4): < 5 \ ppm \\ &Sulfate \ (SO_4): < 0.002\% \end{aligned}$

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 material0.0021%Assay by titration100.83%GradeACS reagentStorageStore at RT

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

Bala Kumar

Quality Control Manager

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

customerservice@riccachemical.com

Certificate of Analysis

Buffer, Reference Standard, pH 2.00 ± 0.01 at 25°C

Lot Number: 2411E26 Product Number: 1493

Manufacture Date: NOV 11, 2024

Expiration Date: OCT 2026

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

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

25 30 35 40 45 50 1.93 1.98 1.98 2.00 2.01 2.03 2.03 2.04 2.04 pН

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

	*		
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

Specification

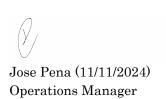
Result

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)

Version: 1.3 Lot Number: 2411E26 Product Number: 1493 Page 1 of 2



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.

Version: 1.3 Lot Number: 2411E26 Product Number: 1493 Page 2 of 2



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 USPREAGENT (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.

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

Date Printed: 05/31/2024



Material BDH9266-500G

Material Description BDH POTASS PHOSPHAT DBSC 500GM

Grade ACS GRADE

Batch 24H0856239
Reassay Date 04/19/2028
CAS Number 7758-11-4
Molecular Formula K2HPO4
Molecular Mass 174.18

Date of Manufacture 04/19/2024

Storage Room Temperature

Characteristics	Specifications	Measured Values
Appearance	Fine white crystalline powder	Fine white crystalline powder
Chloride	<= 0.003 %	0.002 %
Heavy Metals (as Pb)	<= 0.0005 %	<0.0005 %
Insolubles	<= 0.01 %	<0.01 %
Iron	<= 0.001 %	<0.001 %
Loss on Drying	<= 1.0 %	<0.5 %
Nitrogen Compounds	<= 0.001 %	<0.001 %
pH (5%, Water) @25C	8.5 - 9.6	8.8
Purity	>= 98.0 %	99.1 %
Sodium	<= 0.05 %	<0.05 %
Sulfate	<= 0.005 %	<0.002 %
CUSTOMER PART # BDH9266-50	0G	

Internal ID #: 793

Signature Additional Information

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

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

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

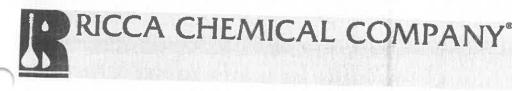
28600 Fountain Parkway, Solon OH 44139 USA

Analysis may have been rounded to significant digits in specification limits

Product meets analytical specifications of the grades listed.

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

Date Printed: 08/08/2024



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customerservice@riccachemical.com

Certificate of Analysis

93178

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

Lot Number: 2411A93

Product Number: 1501

Manufacture Date: NOV 04, 2024

Expiration Date: OCT 2026

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

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

5 10 15 20 25 30 35 45 pH 50 4.00 4.00 4.00 4.00 4.004.00 4.01 4.024.03 4.04 4.06

Name	CAS#	Grade	A DESCRIPTION OF THE PERSON
Water	7732-18-5	ACS/ASTM/USP/	EP
Potassium Acid Phthalate	877-24-7	Buffer	
Preservative Red Dye	Proprietary	Commercial	
neu bye	Proprietary	Purified	THE STATE OF THE S
Test	Specification	Result	
Appearance	Red liquid	Passed	*Not a partiful 1
l'est	Certified Value		*Not a certified val
pH at 25°C (Method: SQCP027, SQCP033)	4.008	Uncertainty	NIST SRM#
Specification	4.008	0.02	185i, 186-I-g, 186-II-g
Shermerron	Day	THE PARTY ASSESSMENT	

Specification	
Commonaid D. CC. G. L.	Reference
Ruffer R	ASTM (D 1293 B) ASTM (D 5464)
Buffer B	ASTM (D 5464) ASTM (D 5128)
DH measurements were and	ASTM (D 5128)

pH measurements were performed in our Pocomoke City, MD laboratory under ISO/IEC 17025 accreditation (ANAB Certificate L2387.01) and are certified traceable to National Institute of Standards and Technology (NIST) Standard Reference Material as indicated above via an unbroken chain of comparisons. The uncertainty is calculated from the uncertainty of the measurement variation from sample to sample, the uncertainty in the NIST Standard Reference Material, and the uncertainty of the measurement process. The uncertainty is multiplied by k=2, corresponding to 95% coverage in a normal distribution. Volumetric glassware complies with Class A tolerance requirements of ASTM E 288 and NIST Circular 434; calibrated before first use and recalibrated regularly in accordance with ASTM E 542 and NIST Procedure NBSIR 74-461. Balances are before first use and recalibrated regularly with a thermometer traceable to NIST standards. Thermometers and temperature probes are calibrated 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	CO. Yew to day
1501-16		Shelf Life (Unopened Container)
1501-2.5	500 mL natural poly	24 months
1501-5	10 L Cubitainer®	24 months
Recommended Storage: 15°C	20 L Cubitainer®	24 months



RICCA CHEMICAL COMPANY 33191

1841 Broad Street Pocomoke City, MD 21851 http://www.riccachemical.com

1-888-GO-RICCA customerservice@riccachemical.com

Certificate of Analysis

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

Lot Number: 2410F80

Product Number: 1601

Manufacture Date: OCT 09, 2024

Expiration Date: MAR 2026

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

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

20 25 30 pН 35 10.31 10.23 40 50 10.1710.11 10.05 10.00 9.95 9.91 9.87 9.81

Name	CAS#		
Water		Grade	
Sodium Carbonate	7732-18-5	ACS/ASTM/USP/EP	
Sodium Ricarhamat	497-19-8	ACS	
Sodium Hydroxide	144-55-8	ACS	
Preservative	1310-73-2	Reagent	
Blue Dyo	Proprietary		
Cest	Proprietary	11-12-2 11 AT 1-11-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1	Service and a service
Γest			E tringen

Appearance	Specification	Result	
Test	Blue liquid	Passed	*Not a certified value
	Certified Value	Uncertainty	
pH at 25°C (Method: SQCP027, SQCP033) Specification	10.009	0.00	186-I-g, 186-II-g, 191d

Specification	0.02	186-I-g, 186-II-g, 191d
Commoraial P. Co. C. J.	Reference	
Buffer C	ASTM (D 1293 B)	
Buffer C	ASTM (D 54CA)	0 × 20 1 0 30 010 1000
pH measurements were performed in our Pocomoke City, MD laboratory us		
cortified the delivered in our Pocomoke City, MD laboratory us	adou ICO TEO	**************************************

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

Part Number		and production and testing
1601-1	Size / Package Type	Shelf Life (Time Lo
1601-16	4 L natural poly 500 mL natural poly	Shelf Life (Unopened Container) 18 months
1601-16 1601-1CT	500 mL natural poly 4 L Cubitainer®	18 months
2.0	4 L Cubitainer® 10 L Cubitainer®	18 months
	1 L natural poly	18 months
	1 L natural poly 20 L Cubitainer®	18 months
ersion: 1.3	Lot Number: 2410F80	18 months

Lot Number: 2410F80

Product Number: 1601

Page 1 of 2

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Certificate of Analysis

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

Lot Number: 2504F20 Product Number: 1615

Manufacture Date: APR 08, 2025

Expiration Date: SEP 2026

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

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

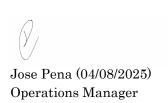
Test	Specification	nesuit	
Appearance	Colorless liquid	Passed	*Not a certified value.
Test	Certified Value	Uncertainty	NIST SRM#
pH at 25°C (Method: SQCP027, SQCP033)			-

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

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

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

Version: 1.3 Lot Number: 2504F20 Product Number: 1615 Page 1 of 2



This product was tested in an ISO 17025 Accredited Laboratory

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Version: 1.3 Lot Number: 2504F20 Product Number: 1615 Page 2 of 2



3050 Spruce Street, Saint Louis, MO 63103, USA

Website: www.sigmaaldrich.com
Email USA: techserv@sial.com
Outside USA: eurtechserv@sial.com

Certificate of Analysis

Barbituric acid - ReagentPlus®, 99%

Product Name:

Product Number: 185698
Batch Number: WXBF3271V

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

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

S. 455

Kang Chen Quality Manager Wuxi , China CN

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.

Version Number: 1 Page 1 of 1

3050 Spruce Street, Saint Louis, MO 63103, USA

KH₂PO₄

Website: www.sigmaaldrich.com
Email USA: techserv@sial.com
Outside USA: eurtechserv@sial.com

Product Name: Certificate of Analysis

Potassium phosphate monobasic - ACS reagent, ≥99.0%

Product Number: P0662
Batch Number: MKCX1379

 Brand:
 SIGALD

 CAS Number:
 7778-77-0

 MDL Number:
 MFCD00011401

Formula: H2KO4P
Formula Weight: 136.09 g/mol
Quality Release Date: 27 JAN 2025
Recommended Retest Date: JAN 2029

Test	Specification	Result
Appearance (Color)	White	White
Appearance (Form)	Powder or Crystals	Crystals
Assay	≥ 99.0 %	99.9 %
Insoluble Matter	≤ 0.01 %	< 0.01 %
Loss on Drying	≤ 0.2 %	< 0.1 %
At 105°C		
рН	4.1 - 4.5	4.5
(c = 5%, 25 deg C)		
Chloride Content	≤ 0.001 %	< 0.001 %
Sulfate (SO4)	≤ 0.003 %	< 0.003 %
Heavy Metals	≤ 0.001 %	< 0.001 %
by ICP		
Iron (Fe)	≤ 0.002 %	< 0.001 %
Sodium (Na)	≤ 0.005 %	< 0.001 %
Recommended Retest Period		
4 Years		

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.

Version Number: 2 Page 1 of 1



W3213 Deceived on 5/21/25 6y 12 Certificate of Analysis

W

Material

Material Description

Lot

Expires end of

Molecular mass

Last Quality Control

Date of manufacture

Made in

Manufacturer Source Batch

BDHVBDH7206-1

IODINE SOLUTION 0.025N

25A2461008

2029-Jan-20

0

2025-Jan-24

2025-Jan-21

United States

MK25A21527

Additional infomation

Characteristics	Specifications	Measured values
Prepared to formulation and St.	The second secon	Measured values
Prepared to formulation on file	Confirmed	Confirmed
Appearance	Passes Test	Passes Test
Normality, N		1 43363 1636
	0.0200 - 0.0300	0.0268

Signature

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

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

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

For Professional use in Laboratory or Manufacturing. Not for use as an Active Pharmaceutical Ingredient or Food or Animal Feed. Suitability and intended use of the product remains the responsibility of the user

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Certificate of Analysis

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

Lot Number: 2504D34 Product Number: 1551

Manufacture Date: APR 03, 2025

Expiration Date: MAR 2027

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.

15 20 30 35 45 50 рH 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 (from ACS)

	Test	Specification	Result	
•	Appearance	Yellow liquid	Passed	*Not a certified value.
	Test	Certified Value	Uncertainty	NIST SRM#

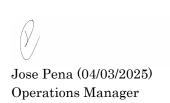
Specification	Reference
Commercial Buffer Solutions	ASTM (D 1293 B)
Buffer A	ASTM (D 5464)
Buffer A	ASTM (D 5128)

pH measurements were performed in our 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)
1551-2.5	10 L Cubitainer®	24 months
1551-20	20 x 20 mL pack	24 months
1551-32	1 L natural poly	24 months
1551-5	20 L Cubitainer®	24 months

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

Version: 1.3 Lot Number: 2504D34 Product Number: 1551 Page 1 of 2



This product was tested in an ISO 17025 Accredited Laboratory

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Version: 1.3 Lot Number: 2504D34 Product Number: 1551 Page 2 of 2

3050 Spruce Street, Saint Louis, MO 63103, USA

Website: www.sigmaaldrich.com
Email USA: techserv@sial.com
Outside USA: eurtechserv@sial.com

Certificate of Analysis

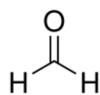
Formaldehyde solution - ACS reagent, 37 wt. % in H2O, contains 10-15% Methanol as stabilizer (to prevent

polymerization)

Product Name:

Product Number: 252549
Batch Number: MKCW7614
Brand: SIAL

MDL Number: MFCD00003274
Quality Release Date: 05 DEC 2024
Recommended Retest Date: DEC 2026



Test	Specification	Result
Appearance (Color)	Colorless	Colorless
Appearance (Form)	Liquid	Liquid
Infrared Spectrum	Conforms to Structure	Conforms
Titration by H2SO4	36.5 - 38.0 %	36.6 %
Residue on ignition (Ash)	≤ 0.005 %	0.004 %
Color Test	< 10 APHA	5 APHA
Chloride (CI)	≤ 5 ppm	< 5 ppm
Iron (Fe)	≤ 5 ppm	< 1 ppm
Heavy Metals by ICP-OES	≤ 5 ppm	2 ppm
Sulfate (SO4)	< = 0.002%	<= 0.002%
Titratable Acid (meq/g)	≤ 0.006	< 0.006
Note	Confirmed	Conforms
Stabilized with 10% to 15% Methanol		
Meets ACS Requirements	Current ACS Specification	Conforms
Recommended Retest Period 2 Years		

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.

Version Number: 2 Page 1 of 1



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: June 25, 2025

Lot Number: 45060288 Expiration Date: December 24, 2025

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

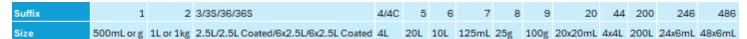
Intended Use - Product is intended for use in manufacturing procedures and laboratory procedures and protocols.

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

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

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

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







CERTIFICATE OF ANALYSIS

Product Name

Grade

Catalog #

Item#

Batch #

Batch #

Date of Manufacture:

Recommended Retest Date:

Customer PO#

Packaging Type

Sodium Hydroxide Pellets

ACS/NF/EP/BP Grade

289ACSNFEPBP

103433

240517-B088254

01 Apr 2024

31 Mar 2028

6063391

Drum Fiber 50 Kg

TEST	MONO- GRAPH	SPECIFICATION	RESULT
Assay	ACS	NLT 97.0%	98.6 %
Assay - Total Alkali	NF	95.0% - 100.5%	98.6 %
Assay - Content of Sodium	NF	54.0% - 59.8%	56.7 %
Appearance of solution	EP/BP	The solution is clear and colourless	Pass
Sodium Carbonate (Na2CO3)	ACS	1.0% max.	0.9 %
Sodium Carbonate (Na2CO3)	NF	3.0% max.	0.9 %
Carbonates	EP/BP	Maximum 2.0%, calculated as Na2CO3	0.9 %
Sulfate (SO4)	ACS	0.003% max.	LT 0.003%
Sulfates	EP/BP	Maximum 200 ppm	LT 20 ppm
Chloride (CI)	ACS	0.005% max.	LT 0.005%
Chlorides	EP/BP	Maximum 200 ppm	LT 50 ppm
Nitrogen Compounds (as N)	ACS	0.001% max.	LT 0.001%
Phosphate (PO4)	ACS	0.001% max.	LT 0.001%
Heavy Metals (as Ag)	ACS	0.002% max	LT 0.002%
ron (Fe)	ACS	0.001% max.	LT 0.001%
ron	EP/BP	Maximum 10 ppm, determined on Solution S	LT 10 ppm

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Form: CofA-Standard, Rev 1.9, 08 JUL 2025, RAD



CERTIFICATE OF ANALYSIS

TEST	MONO- GRAPH	SPECIFICATION	RESULT
Nickel (Ni)	ACS	0.001%, max	LT 0.001%
Mercury (Hg)	ACS	0.1 ppm max.	LT 0.1 ppm
Calcium (Ca)	ACS	0.005%, max	LT 0.005%
Magnesium (Mg)	ACS	0.002% max.	LT 0.002%
Potassium (K)	ACS	0.02% max.	LT 0.02%
Potassium (K)	NF	NMT 0.5%	LT 0.5%
Identification A - pH	EP/BP	Minimum 11.0	Pass
Identification B - Sodium	EP/BP	2 mL of Solution S gives reaction (a) of sodium	Pass
Identification B - pH <791>	NF	NLT 11.0	Pass
Identification A - pH	EP/BP	Minimum 11.0	12.7
nsoluble Substances and Organic Matter	NF	To Pass Test	Pass

Certification and Compliance Statements

This lot of Sodium Hydroxide complies with all of the current requirements listed in the American Chemical Society, National Formulary, European Pharmacopoeia, and British Pharmacopoeia monographs. Certain test data have been supplied by third parties.

This product is not derived, nor does it come in contact with, any materials derived from bovine or other animal sources.

This product is for further commercial manufacturing, laboratory, or research use, and may be used as a process solvent for pharmaceutical purposes. It is not intended for use as an active ingredient in drug manufacturing nor as a medical device or disinfectant. Appropriate/legal use of this product is the responsibility of the user.

This document was electronically signed by Jahdese Lewis on 23 Jul 2025 10:22 AM to indicate Quality Assurance Approval and to release this batch.

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Form: CofA-Standard, Rev 1.9, 08 JUL 2025, RAD

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Certificate of Analysis

Sodium Thiosulfate, 0.0250 Normal (N/40)

Lot Number: 250904J Product Number: 7900

Manufacture Date: SEP 03, 2025

Expiration Date: FEB 2027

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
Organic Preservative	Proprietary	
Sodium Carbonate	497-19-8	ACS
Sodium Thiosulfate Pentahydrate	10102-17-7	ACS

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

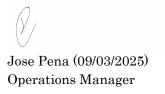
Specification	Reference	
Standard Sodium Thiosulfate Solution, 0.0250 N	APHA (4500-S2- F)	
Standard Sodium Thiosulfate Titrant	APHA (4500-O D)	
Standard Sodium Thiosulfate Titrant	APHA (4500-O E)	
Standard Sodium Thiosulfate Titrant	APHA (4500-O F)	
Standard Sodium Thiosulfate Titrant, 0.025 N	APHA (4500-Cl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

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

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

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

Version: 1.3 Lot Number: 250904J Product Number: 7900 Page 1 of 2



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Version: 1.3 Lot Number: 250904J Product Number: 7900 Page 2 of 2

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customerservice@riccachemical.com

Certificate of Analysis

Cyanide Standard, 1000 ppm CN

Lot Number: 15100125 Product Number: 2543

Manufacture Date: OCT 06, 2025

Expiration Date: MAR 2026

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
Sodium Hydroxide	1310-73-2	Reagent (from ACS)
Potassium Cyanide	151-50-8	ACS

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

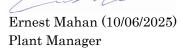
Specification	Reference
Stock Standard Cyanide Solution	APHA (4500-CN- F)
Stock Cyanide Solution	APHA (4500-CN- E)
Stock Cyanide Solution	APHA (4500-CN- K)
Stock Cyanide Solution	APHA (4500-CN- H)
Cyanide Reference Solution (1000 mg/L)	EPA (SW-846) (7.3.3.2)
Cyanide Calibration Stock Solution (1,000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

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

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

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

Version: 1.3 Lot Number: 15100125 Product Number: 2543 Page 1 of 2



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Version: 1.3 Lot Number: 15100125 Product Number: 2543 Page 2 of 2



PERCENT SOLID

Supervisor: Iwona
Analyst: jignesh

Date: 12/1/2025

OVENTEMP IN Celsius(°C): 107 OVENTEMP OUT C

Time IN: 17:40

In Date: 11/26/2025

Weight Check 1.0g: 1.00 Weight Check 10g: 10.00

OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 104

Time OUT: 08:37

Out Date: 11/27/2025

Weight Check 1.0g: 1.00 Weight Check 10g: 10.00

oc:LB138050

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
Q3720-01	BUR-25-0059	1	1.14	10.41	11.55	11.09	95.6	
Q3725-01	STOCKPILE-SAMPLES	7	1.11	10.65	11.76	9.99	83.4	
Q3725-02	STOCKPILE-SAMPLES	2	1.11	10.65	11.76	9.99	83.4	
Q3725-04	STOCKPILE-SAMPLES	8	1.11	10.65	11.76	9.99	83.4	
Q3732-01	HD-01-11-26-2025	3	1.15	10.76	11.91	10.5	86.9	
Q3732-02	HD-01-11-26-2025-E2	4	1.11	10.73	11.84	9.82	81.2	
Q3733-01	SU-04-11-26-2025	5	1.15	10.59	11.74	10.84	91.5	
Q3733-02	SU-04-11-26-2025-E2	6	1.16	10.67	11.83	10.67	89.1	
Q3735-01	BU-3-112625	9	1.14	10.63	11.77	10.22	85.4	
Q3736-01	D1	10	1.19	10.63	11.82	10.08	83.6	
Q3739-01	GSB1A	11	1.16	10.88	12.04	11.00	90.4	
Q3739-02	GSB1B	12	1.13	10.38	11.51	10.32	88.5	
Q3739-03	GSB2A	13	1.16	10.47	11.63	10.03	84.7	
Q3739-04	GSB2B	14	1.18	10.67	11.85	10.41	86.5	
Q3740-01	WC1	15	1.13	11.45	12.58	11.44	90.0	

WORKLIST(Hardcopy Internal Chain)

050861 dr

WorkList ID: 193363

%1-112625

WorkList Name:

Department: Wet-Chemistry

Sample Customer Sample Matrix Test Preservative Customer Sample Preservative Cool 4 deg C Customer Sample Collect Date Method G372C-01 BUR-25-0059 Solid Percent Solids Cool 4 deg C PSEG03 E42 11/25/2025 Chemitech -SO Cool 4 deg C G372C-01 BUR-25-0059 Solid Percent Solids Cool 4 deg C PCMMAG2 D41 11/25/2025 Chemitech -SO Cool 4 deg C G372C-01 HD-01-11-26-2025 Solid Percent Solids Cool 4 deg C PSEG05 -Sele 11/25/2025 Chemitech -SO Cool 4 deg C PSEG05 -Sele 11/25/2025 Chemitech -SO Cool 4 deg C PSEG05 -Sele 11/25/2025 Chemitech -SO Cool 4 deg C PSEG05 -Sele 11/25/2025 Chemitech -SO Cool 4 deg C PSEG05 -Sele 11/26/2025 Chemitech -SO Cool 4 deg C PSEG05 -Sele 11/26/2025 Chemitech -SO Cool 4 deg C PSEG05 -Sele 11/26/2025 Chemitech -SO Cool 4 deg C PSEG05 -Sele 11/26/2025 Chemitech -SO Cool 4 deg C PSEG05 -Sele			The state of the s				(III)	3	Date: 11-26-202	11-26-2025 13:02:50
Q3720-01 BUR-25-0059 Solid Percent Solids Cool 4 deg C ROMAGE E42 11/25/2025 Q3726-04 STOCKPILE-SAMPLES Solid Percent Solids Cool 4 deg C ROMAGE D41 11/25/2025 Q3726-04 STOCKPILE-SAMPLES Solid Percent Solids Cool 4 deg C ROMAGE D41 11/25/2025 Q3732-01 HD-01-11-26-2025-E2 Solid Percent Solids Cool 4 deg C ROMAGE PSEG05 -Sele 11/26/2025 Q3733-02 HD-01-11-26-2025-E2 Solid Percent Solids Cool 4 deg C PSEG05 -Sele 11/26/2025 Q3733-01 SU-04-11-26-2025-E2 Solid Percent Solids Cool 4 deg C PSEG05 -Sele 11/26/2025 Q3733-01 BU-3-112625 Solid Percent Solids Cool 4 deg C PSEG05 A11 11/26/2025 Q3736-01 BU-3-112625 Solid Percent Solids Cool 4 deg C GENVOI A11 11/26/2025 Q3739-01 GSB1A Solid Percent Solids <		Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	100	Method
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	-	43/40-01	WCI	Solid	Percent Solids	Cool 4 deg C	GENV01	A11	11/26/2025	Chemtech -SC

Date/Time 1126,25 15:30

Raw Sample Received by:

Raw Sample Relinquished by:

Date/Time 17-26,25 Raw Sample Received by:

Raw Sample Relinquished by:

Page 1 of 1



SHIPPING DOCUMENTS



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

LLIANCE PR	OJECT NO.	^	00110
QUOTE NO.		8	3+40
COC Number	20470	129	

	CLIEN"	T INFORMATION			CLIENT PROJECT INFORMATION								CLIENT BILLING INFORMATION							
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ATTENTION:				e-mail:									ATTE	NTION:				PA	NE:	
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FAX (RUSH) HARDCOPY (DATA PACKAGE): DAYS* DAYS* DAYS* TO BE APPROVED BY CHEMTECH STANDARD HARDCOPY TURNAROUND TIME IS 10 BUSINESS				☐ Leve ☐ Leve + Ra	I 2 (Res	sults - sults - a)	+ QC Q	Level 4 (Q0 NJ Reduce NYS ASP A Other	d 🖸 US	S EPA CI	P	143X	/ -	Dick St.		dill'	enti Ota	X 0	Children	
ALLIANCE				SAM			MPLE ECTION	LES				PRESERVATIVES			ES			COMMENTS ← Specify Preservati		
SAMPLE ID	S.	PROJEC AMPLE IDENTII		SAMPLE MATRIX	COMP	GRAB II	DATE	TIME	FOF BOTTLES	6	2	3	4	5	6	7	8	9	A-HCI B-HN03 C-H2SO4	D-NaOH E-ICE F-OTHER
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Laboratory Certification

Certified By	License No.
Connecticut	PH-0830
DOD ELAP (ANAB)	L2219
Maine	2024021
Maryland	296
New Hampshire	255425
New Jersey	20012
New York	11376
Pennsylvania	68-00548
Soil Permit	525-24-234-08441
Texas	TX-C25-00189
Virginia	460312

QA Control Code: A2070148



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

Fax: 908 789 8922

LOGIN REPORT/SAMPLE TRANSFER

Order ID: Q3740

GENV01

Order Date: 11/26/2025 4:30:00 PM

Project Mgr:

Client Name: G Environmental

Project Name: Dimond

Report Type: Level 1

Client Contact: Gary Landis

Receive DateTime: 11/26/2025 2:42:00 PM

EDD Type: Excel NJ

Invoice Name: G Environmental

Purchase Order:

Hard Copy Date:

Invoice Contact: Gary Landis

Date Signoff:

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
Q3740-01	WC1	Solid	11/19/2025	13:15					:
					VOC-TCLVOA-10		8260C	10 Bus. Days	

Relinguished By:

Date / Time : 11/26/25 /648

Received By:

Date / Time : 🗸

Storage Area: VOA Refridgerator Room

P2 2