

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
Ε	Indicates the reported value is estimated because of the presence of interference
Μ	Indicates Duplicate injection precision not met.
Ν	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 "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: Client: Contact:	Q2409 Coppola Services Jeffrey Simpkins			OrderDate: Project: Location:	6/24/2025 2:11 Millville Sewage D51		ant - Field Samp	bling
LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q2409-02	2 COP-SOIL-PILE	SOIL			06/24/25 09:04			06/24/25
			Reactive Sulfide	9034		06/27/25	06/27/25 11:33	
			TS	SM2540 B			06/26/25 09:00	
			TVS	160.4			06/26/25 15:00	
			Corrosivity	9045D			06/24/25 16:35	
			Ignitability	1030			06/25/25 09:37	
			Reactive Cyanide	9012B		06/25/25	06/25/25 12:56	







Report of Analysis

F	arameter	Conc. Qua. DF MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
					% Solid:	96.4	
	Lab Sample ID:	Q2409-02			Matrix:	SOIL	
	Client Sample ID:	COP-SOIL-PILE			SDG No.:	Q2409	
	Project:	Millville Sewage Treatment Pl	ant - Field Sampling		Date Received:	06/24/25	
	Client:	Coppola Services			Date Collected:	06/24/25	09:04

Parameter	Conc.	Qua.	DF	MDL	LOQ/CRQL	Units	Prep Date	Date Ana.	Ana Met.
Corrosivity	7.80	Н	1	0	0	pН		06/24/25 16:35	9045D
Ignitability	NO		1	0	0	oC		06/25/25 09:37	1030
Reactive Cyanide	0.010	J	1	0.0083	0.050	mg/Kg	06/25/25 10:45	06/25/25 12:56	9012B
Reactive Sulfide	3.16	J	1	0.20	10.0	mg/Kg	06/27/25 09:10	06/27/25 11:33	9034
TS	96.4		1	1.00	5.00	%		06/26/25 09:00	SM 2540 B-20
TVS	1.30	J	1	1.00	10.0	%		06/26/25 15:00	160.4

Comments: pH result reported at temperature 24.7 °C

- U = Not Detected
- LOQ = Limit of Quantitation
- MDL = Method Detection Limit
- LOD = Limit of Detection
- D = Dilution
- Q = indicates LCS control criteria did not meet requirements
- H = Sample Analysis Out Of Hold Time

- J = Estimated Value
- B = Analyte Found in Associated Method Blank

- E = Indicates the reported value is estimated because of the presence of interference.
- OR = Over Range
- N =Spiked sample recovery not within control limits

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



<u>QC RESULT</u> <u>SUMMARY</u>



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

Initial and Continuing Calibration Verification

	ppola Services llville Sewage T		SDG No.: Q2409 RunNo.: LB1362	249			
Analyte		Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID: Corrosivity	ICV	рН	7.00	7	100	90-110	06/24/2025
Sample ID: Corrosivity	CCV1	рН	2.01	2.00	101	90-110	06/24/2025
Sample ID: Corrosivity	CCV2	рН	12.02	12.00	100	90-110	06/24/2025



Initial and Continuing Calibration Verification

Client: Project:	Coppola Services Millville Sewage T	reatment Pla	ant - Field S	ampling		SDG No.: Q2409 RunNo.: LB1362	61
Analyte		Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID:	ICV1						
Reactive	Cyanide	mg/L	0.098	0.099	99	85-115	06/25/2025
Sample ID:	CCV1						
Reactive	Cyanide	mg/L	0.24	0.25	96	90-110	06/25/2025
Sample ID:	CCV2						
Reactive	Cyanide	mg/L	0.24	0.25	96	90-110	06/25/2025
Sample ID:	CCV3						
Reactive	Cyanide	mg/L	0.25	0.25	100	90-110	06/25/2025



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

Client: Project:	Coppola Ser Millville Sev	vices wage Treatment I		SDG No.: Q2409 RunNo.: LB136261					
Analyte		Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date	
Sample ID:	ICB1								
Reactive	Cyanide	mg/L	0.0014	0.0025	J	0.00096	0.005	06/25/2025	
Sample ID:	CCB1								
Reactive	Cyanide	mg/L	0.0012	0.0025	J	0.00096	0.005	06/25/2025	
Sample ID:	CCB2								
Reactive	Cyanide	mg/L	0.0014	0.0025	J	0.00096	0.005	06/25/2025	
Sample ID:	CCB3								
Reactive	Cyanide	mg/L	0.0014	0.0025	J	0.00096	0.005	06/25/2025	

Initial and Continuing Calibration Blank Summary



Preparation Blank Summary

Client:	Coppola Services					SDG No.:	Q2409	
Project:	Millville Sewage	Freatment P	lant - Field Sampl	ing				
Analyte		Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID: TS	LB136287E	3L %	< 2.5000	2.5000	U	1	5	06/26/2025
Sample ID: TVS	LB136288E	BL ۶	< 5.0000	5.0000	U	1	10	06/26/2025
Sample ID: Reactive	PB168605E Cyanide	BL mg/Kg	0.011	0.0250	J	0.0084	0.05	06/25/2025
Sample ID: Reactive	PB168629E Sulfide	BL mg/Kg	< 5.0000	5.0000	U	0.201	10	06/27/2025



Duplicate Sample Summary

alyte	Units	Limit	Result		Result	Qualifier	Factor	AD	Qual	Date
		Acceptance	Sample	Conc.	Duplicate	Conc.	Dilution	RPD/		Analysis
Client ID:	MH-K/LDUP				Percent Sol	ids for Spil	ke Sample:	86	.3	
Project:	Millville Sewage Trea	tment Plant - Field	d Sampling		Sample ID:	Q	2394-01			
Client:	Coppola Services				SDG No.:	Q2-	409			



Duplicate Sample Summary

alyte	emis									
	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/ AD	Qual	Analysis Date
Client ID:	MH-K/LDUP				Percent Sol	ids for Spil	xe Sample:	86	5.3	
Project:	Millville Sewage Trea	Millville Sewage Treatment Plant - Field Sampling					Sample ID: Q2394-04			
Client:	Coppola Services		SDG No.:	Q24	409					



Duplicate Sample Summary

Client:	Coppola Services	SDG No.:	Q2409	
Project:	Millville Sewage Treatment Plant - Field Sampling	Sample ID:	Q2409-02	
Client ID:	COP-SOIL-PILEDUP	Percent Solids fo	or Spike Sample:	100

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/ AD	Qual	Analysis Date
Corrosivity	рН	+/-20	7.80		7.82		1	0.26		06/24/2025
TS	%	+/-5	96.4		96.5		1	0.1		06/26/2025
TVS	%	+/-5	1.30	J	1.30	J	1	0		06/26/2025
Reactive Sulfide	mg/Kg	+/-20	3.16	J	3.16	J	1	0		06/27/2025



RAW DATA



Analytical Summary Report

Analysis Method:	9045D	Analyst By : jignesh
Parameter:	Corrosivity	Supervisor Review By : Iwona
Run Number:	LB136249	Slope : 98.8
BalanceID:	WC SC-7	pH Meter ID : WC PH METER-1

Calibration Standards	Chemtech Log#
PH 4 BUFFER SOLUTION	W3178
BUFFER PH 7.00 GREEN 1PINT PK6	W3093
PH 10.01 BUFFER, COLOR CD 475ML	W3191
buffer solution pH 7 yellow	W3071
Buffer Solution, PH2 (500ml)	W3161
pH 12.00 Buffer	W3200

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

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

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

Seq	LabID	DF	Matrix	Weight (gm)	Volume (ml)	Temperature (°C)	Result (pH)	Anal Date	Anal Time
1	CAL1	1	Water	NA	NA	20.3	4.01	06/24/2025	15:40
2	CAL2	1	Water	NA	NA	20.2	7.00	06/24/2025	15:41
3	CAL3	1	Water	NA	NA	20.2	10.02	06/24/2025	15:44
4	ICV	1	Water	NA	NA	20.2	7.00	06/24/2025	15 : 45
5	CCV1	1	Water	NA	NA	20.2	2.01	06/24/2025	15 : 50
6	Q2394-04	1	Solid	20.02	20	24.7	5.42	06/24/2025	16:00
7	Q2399-04	1	Solid	20.03	20	24.9	8.45	06/24/2025	16:10
8	Q2399-08	1	Solid	20.04	20	24.0	9.16	06/24/2025	16:20
9	Q2405-04	1	Solid	20.02	20	24.4	5.30	06/24/2025	16:27
10	Q2409-02	1	Solid	20.03	20	24.7	7.80	06/24/2025	16 : 35
11	Q2409-02DUP	1	Solid	20.04	20	24.9	7.82	06/24/2025	16:38
12	CCV2	1	Water	NA	NA	20.3	12.02	06/24/2025	16:42

A 176249		Date : 06-24-2025 12:50:55	Į de			06/23/2025 90450		06/23/2025 9045D		(1940) CZUZICZINA	06/24/2025 QUAED		06/24/2025 9045D
5	- 		Raw Sam Storage	200				A41	A41		D41		D51
ain)		Wet-Chemistry	Customer			PSEG03		L'AEGU3	PSEG03		PSEG03		004402
WORKLIST(Hardcopy Internal Chain)		Department :	Preservative			court 4 deg C	Cool 4 den C		Cool 4 deg C			Conl 4 den C	0
WORKLIST(Hai	100957	Jecoel	Test		Corrosivity		Corrosivity	Corrocivitu		Corrosivity		Corrosivity	
	Workl ist ID .		Matrix		Solid		Solid	Solid		Solid		Solid	
	corrsovity q2401		Customer Sample	MH K2		TP-13		EP-13	MLF NAMI		COP-SOIL PILE		
	WorkList Name :		Sample	Q2394-04		Q2399-04		Q2399-08	Q2405-04		Q2409-02		

Date/Time 06/14/15 151.35 Sh. L Raw Sample Received by: Raw Sample Relinquished by:

Raw Sample Relinquished by: Date/Time 06WA(175 Raw Sample Received by:

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.00°. Gel. 34

Reviewed By:Iwona On:6/25/2025 10:39:38 AM Inst Id :WC PH METER-1



Analytical Summary Report

Analysis Method:	1030	Reviewed By:	Eman
Parameter:	Ignitability	Supervisor Review By:	Iwona
Run Number:	LB136257		

Seq	LabID	ClientID	DF	matrix	Result Status	Burning Rate	Anal Date	Anal Time
1	Q2394-01	MH-K/L	1	Solid	NO	0.00	06/25/2025	08:30
2	Q2394-01DUP	MH-K/LDUP	1	Solid	NO	0.00	06/25/2025	08:38
З	Q2394-04	MH-K/L	1	Solid	NO	0.00	06/25/2025	08:45
4	Q2399-01	TP-13	1	Solid	NO	0.00	06/25/2025	08 : 53
5	Q2399-04	TP-13	1	Solid	NO	0.00	06/25/2025	09:00
6	Q2399-05	EP-7	1	Solid	NO	0.00	06/25/2025	09:08
7	Q2399-08	EP-13	1	Solid	NO	0.00	06/25/2025	09:15
8	Q2405-01	МН-М/Н	1	Solid	NO	0.00	06/25/2025	09:23
9	Q2405-04	MH-M/N	1	Solid	NO	0.00	06/25/2025	09:30
10	Q2409-02	COP-SOIL-PILE	1	Solid	NO	0.00	06/25/2025	09:37

Burning Rate = Length(mm)

WorkList Name : IGI							「「」	
	IGN-062525	WorkList ID :	D : 190364	Department :	Wet-Chemistry		Date: 06-25-2025 08-10-46	25 00:40:46
Sample C	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date Method	Method
Q2394-01 M	Mu איז							
		Solid	Ignitability	Cool 4 dor 0				
Q2394-04 M	MH-K/L	Solid	lanitabilit.		PSEG03	A21	06/23/2025 1030	1030
Q2399-01 TI	TP-13		igi iriadility	Cool 4 deg C	PSEG03		06/23/2025 1030	1030
		Solid	Ignitability				0404040	0001
Q2399-04 TF	TP-13				PSEG03	A41	06/23/2025 1030	1030
		Solid	Ignitability	Cool 4 den C				
Q2399-05 EI	EP-7	Solid	anitabilit.		205361	A41	06/23/2025 1030	1030
0.200 AP			-grinability	Cool 4 deg C	PSEG03	A41	0610010001	
	EP-13	Solid	lanitability	Cool 4 4 O			030 1030 1030	1030
Q2405-01 MI	MH-M/H	Piloo		COUL 4 deg C	PSEG03	A41	06/23/2025 1030	1030
COMOS ON		DIIOO	Ignitability	Cool 4 deg C	PSEG03	141		
	N/M-HM	Solid	Idnitability			5	U6/24/2025 1030	1030
Q2409-02 CC	COP-SOIL-DILE		S	Cool 4 deg C	PSEG03	D41	06/24/2025 1030	1030
		Solid	Ignitability	Cool 4 deg C	COPP02	D64		

Date/Time 06 25 25 68:20 Raw Sample Received by: FM (WC) Raw Sample Relinquished by: 700 000

Reviewed By:Iwona On:6/25/2025 12:05:56 PM Inst Id :FLAME LB :LB136257 EM (WC 0 50 (DO) Date/Time 06 25 25 Raw Sample Relinquished by: Raw Sample Received by:

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	~======================================						h:6/26/2025 10:00:08 M st Id :Konelab 20
	Test results		Aquakem 7	.2AQ1		Page:	st 1d :Konelab 20 3 :LB136261 1
			CHEMTECH 284 Sheff	CONSULTING GR ield Street,	ROUP INC Mountainside,	NJ 07092	
	6/25/2025 13:08		Reviewed	by : <u>RM</u>	Instrument	ID : Konela	ab
	Test: Total CN						·
	Sample Id	Result	Dil. 1 +	Response	Errors		
06/25/2025 RM	ICV1 ICB1 CCV1 CCB1 PB168605BL Q2394-04 Q2394-04DUP Q2399-04 Q2399-08 Q2405-04 Q2405-04 Q2405-04 PB168606BL Q2403-01 CCV2 CCB2 Q2403-01DUP CCV3 CCB3	1.041 1.075 1.227 1.411 239.745 1.444 1.390	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.075 0.001 0.187 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.184 0.001 0.001 0.001 0.001 0.001 0.001 0.001			
	N Mean SD CV%	19 44.647 91.3560 204.62					

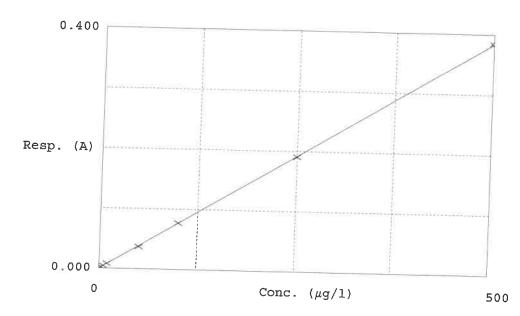
Reviewed By:Iwona

Aquakem v. 7	7.2AQ1							
Results from	time per	riod:						
Wed Jun 25 1	-							
Wed Jun 25 1								
Sample Id	Sam	/Ctr/c/ Test sho	ort r Tesi	t type	Result	Recult unit	Popult data and u	•
0.0PPBCN	А	Total CN			0.9562		Result date and time	Stat
5.0PPBCN	А	Total CN			5.7123		6/25/2025 9:56:22	
10PPBCN	А	Total CN	Р		10.6444	-	6/25/2025 9:56:23	
50PPBCN	А	Total CN			47.947		6/25/2025 9:56:24	
100PPBCN	А	Total CN			100.4532		6/25/2025 9:56:25	
250PPBCN	А	Total CN			248.3846	-	6/25/2025 9:56:26	
500PPBCN	А	Total CN	-		500.9024	-	6/25/2025 9:56:27	
ICV1	S	Total CN	P		97.8649	-	6/25/2025 9:56:28	
ICB1	S	Total CN	P			_	6/25/2025 12:48:32	
CCV1	S	Total CN	P		1.4295 µ		6/25/2025 12:48:33	
CCB1	S	Total CN	P		243.7863 µ	+	6/25/2025 12:48:36	
PB168605BL	S	Total CN	P		1.2345 µ		6/25/2025 12:48:38	
Q2394-04	S	Total CN	P		1.1309 µ	-	6/25/2025 12:48:39	
Q2394-04DUP	S	Total CN	P		1.2002 μ		6/25/2025 12:48:41	
Q2399-04	S	Total CN	P		1.1865 µ	-	6/25/2025 12:56:04	
Q2399-08	S	Total CN	Р		1.2251 µ		6/25/2025 12:56:06	
Q2405-04	S	Total CN	P		1.1708 μ	-	6/25/2025 12:56:07	
Q2409-02	S	Total CN			1.1747 μ	-	6/25/2025 12:56:08	
Q2415-04	S	Total CN	P		1.0411 µį		6/25/2025 12:56:09	
PB168606BL	S	Total CN	P		1.0746 µg		6/25/2025 12:56:10	
Q2403-01	S	Total CN	P		1.2269 µg		6/25/2025 12:56:13	
CCV2	S		Р		1.4112 µg		5/25/2025 13:03:39	
CCB2	S	Total CN	Р		239.7446 µg		6/25/2025 13:03:43	
Q2403-01DUP	S	Total CN	Р		1.4438 µg		6/25/2025 13:03:45	
CCV3	S	Total CN	P		1.3896 µg		6/25/2025 13:03:46	
	S S		P		248.174 µg		6/25/2025 13:07:29	
0000	3	Total CN	Р		1.3872 µg/	/เ 6	/25/2025 13:07:31	

======================================	Reviewed By: Iwona On:6/26/2025 10:00:08 AM Inst Id :Konelab 20 LB :LB136261 CHEMTECH CONSULTING GROUP INC 284 Sheffield Street, Mountainside, NJ 07092
6/25/2025 9:56	Reviewed by : $\underline{\rho}M$ Instrument ID : Konelab
Test Total CN	
Accepted	6/25/2025 9:56
Factor Bias	1302 0
Coeff. of det.	0.999953

Errors

.



	Calibrator	Response	Calc. con.	Conc.	CL Errors
1 2 3 4 5 6 7	0.0PPBCN 5.0PPBCN 50PPBCN 50PPBCN 100PPBCN 250PPBCN 500PPBCN	0.001 0.004 0.008 0.037 0.077 0.191 0.384	0.9562 5.7123 10.6444 47.9470 100.4532 248.3846 500.9024	0.0000 5.0000 10.0000 50.0000 100.0000 250.0000 500.0000	14.2 6.4 -4.1 0.5 -0.6 0.2

06/29/2075 RM



SUPERVISOR:	Iwona
ANALYST:	jignesh
Date:	06/26/2025
Run Number:	LB136287
BalanceID:	WC SC-6
OvenID:	WC OVEN-1
ThermometerID:	WET OVEN#1

TEMP1 IN:	104 °C	06/26/2025	09:00	TEMP1 OUT:	104 °C	06/26/2025	10:00
TEMP2 IN:	103 °C	06/26/2025	10:30	TEMP2 OUT:	104 °C	06/26/2025	11:30
TEMP3 IN:	104 °C	06/26/2025	15:00	TEMP3 OUT:	103 °C	06/27/2025	07:30
TEMP4 IN:	104 °c	06/27/2025	08:00	TEMP4 OUT:	104 °C	06/27/2025	09:30

Di	sh Lab ID	Client ID	Empty Dish Weight (g)	Final Empty Dish Weight (g)	Dish + Sample Weight (g)	Orignal weight 1st Dish+Sample weight after Drying @103-@105°C (g)	Constant weight 2nd Dish+Sample weight after Drying @103-@105°C (g)	Drying 0103-0105°C		Result %
-	LB136287BL	LB136287BL	89.6351	89.6351	89.6351	89.6351	89.6351	89.6351	0.0000	0
4	Q2409-02	COP-SOIL-PILE	87.4641	87.4641	110.2143	109.3875	109.3875	109.3880	21.9234	96.4
	Q2409-02DUP	COP-SOIL-PILEDUP	88.4177	88.4177	111.9797	111.1504	111.1504	111.1500	22.7327	96.5

B = Dish + Sample Weight (g)

C = Final Dish+Sample weight after Drying $@103-@105^{\circ}C$ (g)

1807 W	Date: 06-26-2025 11:00:57	Raw Sample Storage Collect Date Method Location
Chain) W	Department : Wet-Chemistry	Customer
WORKLIST(Hardcopy Internal Chain) W りいなよ	90407 Departmen	Preservative
WOR	WorkList ID: 190	Matrix Test
	ts s q2409	Customer Sample
	WorkList Name: ts s q2409	Sample

06/24/2025 SM2540 B

D51

COPP02

Cool 4 deg C

LS L

Solid

COP-SOIL-PILE

と

Q2409-02

5 12130	2000	Iby: CUSH
Date/Time 061261A	Raw Sample Received by:	Raw Sample Relinquished by:

15130 (ind) Raw Sample Relinquished by: Date/Time 061X61X5 Raw Sample Received by:

Reviewed By:Iwona On:6/27/2025 11:11:51 AM Inst Id :WC SC-3 LB :LB136287

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TOTAL VOLATILE SOLIDS 160.4

				Run Number: LB136288
TEMP1 IN:	104 °C 06/26/2025 15:	00 TEMP1 OUT:	103 °C 06/27/2025 07:30	SUPERVISOR: Iwona
TEMP2 IN:	104 °C 06/27/2025 08:	TEMP2 OUT:	104 °C 06/27/2025 09:30	ANALYST: jignesh
TEMP3 IN:	550 °c 06/27/2025 10:	TEMP3 OUT:	550 °C 06/27/2025 11:30	BalanceID: WC SC-6
TEMP4 IN:	540 °C 06/27/2025 12:	00 TEMP4 OUT :	550 °C 06/27/2025 13:30	OvenID: WC OVEN-1

Dish #	Lab ID	Empty Dish Weight (g)	Final Empty Dish Weight (g)	Empty Dish + Sample Weight (g)	1st Dish + SampleWt Drying @103-@105°C (g)	Final Dish + SampleWt Drying @103-@105°C (g)	Dish + Samplewt Drying @550(±50)°C (g)	Final Dish + Samplewt Drying @550(±50)°C (g)	Weight Diff (g)	Result (%)
1	LB136288BL	89.6351	89.6351	89.6351	89.6351	89.6351	89.6351	89.6351	0.0000	0
2	Q2409-02	87.4641	87.4641	110.2143	109.3875	109.3875	109.0979	109.0979	0.2896	1.3
3	Q2409-02DUP	88.4177	88.4177	111.9797	111.1504	111.1504	110.8514	110.8514	0.2990	1.3

- A = Sample Weight (g)
- B = Final Dish + Samplewt Drying (2550(±50)°C (g))
- C = Final Dish + SampleWt Drying @103-@105°C (g)
- D = Weight (g)
- E = Final Empty Dish Weight (g)
- F = Final Dish + SampleWt Drying @103-@105°C (g)

Weight D =	С – В	
Result % =	D	. * 100
	F - E	••••

Chain)
Internal
WORKLIST(Hardcopy

282961 SM

Date: 06-26-2025 11:01:45	Raw Sample Storage Collect Date Method Location	D51 06/24/2025 160.4
Department : Wet-Chemistry	Customer	COPP02 D51
Department : Wet-	Preservative	Cool 4 deg C
WorkList ID: 190408	Test	TVS
WorkList	Matrix Test	Solid TVS
: tvs s q2409	Customer Sample	COP-SOIL-PILE
WorkList Name :	Sample	Q2409-02

Date/Time 06以らん ないろの Raw Sample Received by: 30 (2007) Raw Sample Relinquished by:

Date/Time O6(26/25 Raw Sample Received by:

Raw Sample Relinquished by:

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CHEIMITECH

Analysis Method:	9034	ANALYST:	rubina
Parameter:	Reactive Sulfide	SUPERVISOR REVIEW BY:	Iwona
Run Number:	LB136315	Constant:	16000
		Normality1:	0.025

Normality2: 0.025

Reagent/Standard	Lot/Log #
SODIUM THIOSULFATE,0.025N,4LITRE	W3105
IODINE SOLUTION .025N 1L	W3213
Starch Solution, 4L	W3149

Seq	Lab ID	True Value (mg/l)	DF	Initial Weight (g)	Final Volume (ml)	T1 (ml)	T2 Initial	T2 Final	T2 Diff. (ml)	T1 - T2 Diff (mL)	Value Corrected With Blank	Result (ppm)	Anal Date	Anal Time
1	PB168629BL		1	5.00	50	2.00	0.00	1.94	1.94	0.06	0.00	0.00	06/27/2025	11:30
2	Q2409-02		1	5.07	50	2.00	0.00	1.90	1.90	0.10	0.04	3.16	06/27/2025	11:33
3	Q2409-02DUP		1	5.07	50	2.00	0.00	1.90	1.90	0.10	0.04	3.16	06/27/2025	11:36
4	Q2414-04		1	5.01	50	2.00	0.00	1.86	1.86	0.14	0.08	6.39	06/27/2025	11:38
5	Q2415-04		1	5.03	50	2.00	0.00	1.90	1.90	0.10	0.04	3.18	06/27/2025	11:41
6	Q2416-04		1	5.04	50	2.00	0.00	1.90	1.90	0.10	0.04	3.17	06/27/2025	11:44
7	Q2420-02		1	5.01	50	2.00	0.00	1.86	1.86	0.14	0.08	6.39	06/27/2025	11:47
8	Q2429-04		1	5.07	50	2.00	0.00	1.88	1.88	0.12	0.06	4.73	06/27/2025	11:50
9	Q2430-04		1	5.05	50	2.00	0.00	1.86	1.86	0.14	0.08	6.34	06/27/2025	11:53

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



Soll/Sludge Reactive Cyanide Preparation Sheet

PB168605

SOP ID :	M9012B-Total, Amenable	e and Reactive C	yanide-21					
SDG No :	N/A		Start D	igest Date:	06/25/2025	Time: 10:45	Temp :	N/A
Matrix :	SOIL		End D	igest Date:	06/25/2025	Time: 12:15	Temp :	
Pippete ID :	N/A							
Balance ID :	WC SC-7							
Hood ID :	HOOD#1	Digestion tube	ID: M5595		Block Thern	ometer ID : N	/Α	
Block ID :	MC-1	Filter paper	ID: N/A	P	rep Technicia		RIY	
Weigh By :	RM	pH Meter	ID: N/A			r Signature:	12	
Standared I	Name	MLS US	ED	STD RE	F. # FROM LO	G		
PBS003		50.0ML		W3112				
N/A		N/A		N/A				
N/A		N/A		N/A				
N/A		N/A		N/A				
N/A		N/A		N/A			_	
Chemical L	Jsed		ML/SAMPLE U	SED		Lot Number		
0.25N NaOH			50.0ML		WP111294		_	
N/A			N/A		N/A			
N/A			N/A		N/A			
N/A			N/A		N/A			
N/A			N/A		N/A			
N/A			N/A		N/A			
N/A			N/A		N/A			
N/A			N/A		N/A			
N/A			N/A		N/A			
N/A			N/A		N/A			

LAB SAMPLE ID	CLIENT SAMPLE ID	Comment

Extraction Conformance/Non-Conformance Comments:

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
125/2025 12.25	RM (eve)	RM We
	Preparation Group	Analysis Group



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PB168605

Lab Sample ID	Cilent Sample ID	Initial Weight (9)	Final Vol (ml)	pН	Sulfide	Oxidizing	Nitrate/ Nitrite	Comment	Prep Pos
PB168605BL	PBS605	5.00	50	N/A	N/A	N/A	N/A	N/A	N/A
Q2394-04DUP	MH-K/LDUP	5.04	50	N/A	N/A	N/A	N/A	N/A	N/A
Q2394-04	MH-K/L	5.04	50	N/A	N/A	N/A	N/A	N/A	N/A
Q2399-04	ТР-13	5.01	50	N/A	N/A	N/A	N/A	N/A	N/A
Q2399-08	EP-13	5.01	50	N/A	N/A	N/A	N/A	N/A	N/A
Q2405-04	MH-M/N	5.07	50	N/A	N/A	N/A	N/A	N/A	N/A
Q2409-02	COP-SOIL-PILE	5.04	50	N/A	N/A	N/A	N/A	N/A	N/A
Q2415-04	WC-1	5.07	50	N/A	N/A	N/A	N/A	N/A	N/A

WORKLIST(Hardcopy Internal Chain)

WorkList Name : RCN-6-25

Date: 06-25-2025 08:17:19 Collect Date Method 9012B 06/23/2025 9012B 06/23/2025 9012B 06/24/2025 9012B 06/24/2025 9012B 06/23/2025 Raw Sample Storage Location A41 A41 D41 D51 PSEG03 PSEG03 PSEG03 Customer PSEG03 COPP02 PSEG03 Department : Distillation Cool 4 deg C Preservative Reactive Cyanide Reactive Cyanide Reactive Cyanide Reactive Cyanide Reactive Cyanide Reactive Cyanide WorkList ID: 190374 Test Matrix Solid Solid Solid Solid Solid Solid **Customer Sample** COP-SOIL-PILE MH-M/N MH-K/L EP-13 TP-13 WC-1 Q2405-04 Q2394-04 Q2399-04 Q2399-08 Q2409-02 Q2415-04 Sample

9012B

06/24/2025

10.00 RIY Date/Time <u>p6/25/2025</u> Raw Sample Relinquished by: Raw Sample Received by:

06/25/025 Raw Sample Relinquished by: Raw Sample Received by: Date/Time

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Soll/Sludge Reactive Sulfide Preparation Sheet

PB168629

SOP ID :	M9030B-Sulfide-1	3		
SDG No :	N/A		Start Digest Date:	06/27/2025 Time: 09:10 Temp: N/A
Matrix :	SOIL	-	End Digest Date:	
Pippete ID :	WC	_		<u>06/27/2025</u> Time: <u>10:40</u> Temp: <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 :		
Weigh By :	RM	pH Meter ID :		Prep Technician Signature:
Standared	Name	MLS USED	STD RE	F. # FROM LOG
PBS003		50.0ML	W3112	
N/A N/A		N/A	N/A	
N/A N/A N/A		N/A	N/A	
N/A		N/A	N/A	
N/A		N/A	N/A	
Chemical I	Used	MI	L/SAMPLE USED	Lot Number
0.5M ZINC AC	ETATE	5.0M	1	WP113086
FORMALDEHY	DE	2.0M		W3220
N/A		N/A		N/A
N/A		N/A		N/A
N/A		N/A		N/A
N/A		N/A		N/A
N/A		N/A		N/A
N/A		N/A		N/A
N/A		N/A		N/A
N/A		N/A		N/A

Extraction Conformance/Non-Conformance Comments:

06/27/2025 RIY

N/A

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



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PB168629

Lab Sample ID	Client Sample ID	Initial Weight (g)	Final Vol (ml)	рH	Sulfide	Oxidizing	Nitrate/ Nitrite	Comment	Prep Pos
PB168629BL	PBS629	5.00	50	N/A	N/A	N/A	N/A	N/A	N/A
Q2409-02DUP	COP-SOIL-PILEDUP	5.07	50	N/A	N/A	N/A	N/A	N/A	N/A
Q2409-02	COP-SOIL-PILE	5.07	50	N/A	N/A	N/A	N/A	N/A	N/A
Q2414-04	WC-1	5.01	50	N/A	N/A	N/A	N/A	N/A	N/A
Q2415-04	WC-1	5.03	50	N/A	N/A	N/A	N/A	N/A	N/A
Q2416-04	МН-G/Н	5.04	50	N/A	N/A	N/A	N/A	N/A	N/A
Q2420-02	72-11933	5.01	50	N/A	N/A	N/A	N/A	N/A	N/A
2429-04	TP-4	5.07	50	N/A	N/A	N/A	N/A	N/A	N/A
2430-04	MH-E/F	5.05	50	N/A	N/A	N/A	N/A	N/A	N/A

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WORKLIST(Hardcopy Internal Chain)

WorkList Name : rsul-6-27

WorkList Name :	rsul-6-27	WorkList ID :	: 190432	Department -	Distillation	ł	
						Dai	Date: 06-27-2025 08:00:27
Sample	Customer Sample	Matrix 1	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date Method
00100							
20-204220	COP-SOIL-PILE	Solid	Reactive Sulfide	Cool A Joon			
02414-04	MC 4			Coult 4 deg C	COPP02	D51	06/24/2025 9034
		Solid	Reactive Sulfide	Cool 4 day C			
Q2415-04	WC-1			O Ron t moo	PSEG01		06/25/2025 9034
		Solid	Reactive Sulfide	Cool 4 dea C	DAFCO3		
Q2416-04	MH-G/H	Solid	Condition Of the L				06/24/2025 9034
				Cool 4 deg C	PSEG03		
UZ420-02	72-11933	Solid	Reactive Sulfide				4506 G202/G2/00
02420-04	, dt			Cool 4 deg C	PSEG03	D41	06/25/2025 9034
	+	Solid R	Reactive Sulfide	Cool 4 dor C			
02430-04	MU E/E			Coult 4 ueg C	PSEG03		06/26/2025 9034
		Solid R	Reactive Sulfide	Cool 4 den C	Deroos		
				0	LOEGUS	A53	06/26/2025 9034

08.10 CIUN Raw Sample Received by: RHDate/Time <u>66/27/2025</u> Raw Sample Relinquished by:

10 20 (Jos) RITUNO Ĵ, Date/Time 0 6 /2 3/ 2 4 2 4 2 Raw Sample Relinquished by: Raw Sample Received by:

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Instrument ID: WC PH METER-1

Review By	jigr	nesh	Review On	6/25/2025 8:22:44 AM
Supervise By	lwc	ona	Supervise On	6/25/2025 10:39:38 AM
SubDirectory	LB	136249	Test	Corrosivity
STD. NAME		STD REF.#		
ICAL Standard		N/A		
ICV Standard		N/A		
CCV Standard		N/A		
ICSA Standard		N/A		
CRI Standard		N/A		
LCS Standard		N/A		
Chk Standard		W3178,W3093,W3191,	W3071,W3161,W3200	

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	CAL1	CAL1	CAL	06/24/25 15:40		Jignesh	ОК
2	CAL2	CAL2	CAL	06/24/25 15:41		Jignesh	ОК
3	CAL3	CAL3	CAL	06/24/25 15:44		Jignesh	ОК
4	ICV	ICV	ICV	06/24/25 15:45		Jignesh	ОК
5	CCV1	CCV1	CCV	06/24/25 15:50		Jignesh	ОК
6	Q2394-04	MH-K/L	SAM	06/24/25 16:00		Jignesh	ок
7	Q2399-04	TP-13	SAM	06/24/25 16:10		Jignesh	ок
8	Q2399-08	EP-7	SAM	06/24/25 16:20		Jignesh	ОК
9	Q2405-04	MH-M/N	SAM	06/24/25 16:27		Jignesh	ок
10	Q2409-02	COP-SOIL-PILE	SAM	06/24/25 16:35		Jignesh	ок
11	Q2409-02DUP	COP-SOIL-PILEDUP	DUP	06/24/25 16:38		Jignesh	ок
12	CCV2	CCV2	CCV	06/24/25 16:42		Jignesh	ок



Instrument ID: FLAME

Review By	Em	an	Review On	6/25/2025 12:04:24 PM
Supervise By	lwo	ona	Supervise On	6/25/2025 12:05:56 PM
SubDirectory	LB	136257	Test	Ignitability
STD. NAME		STD REF.#		
ICAL Standard		N/A		
ICV Standard		N/A		
CCV Standard		N/A		
ICSA Standard		N/A		
CRI Standard		N/A		
LCS Standard		N/A		
Chk Standard		N/A		

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	Q2394-01	MH-K/L	SAM	06/25/25 08:30		Eman	ОК
2	Q2394-01DUP	MH-K/LDUP	DUP	06/25/25 08:38		Eman	ОК
3	Q2394-04	MH-K/L	SAM	06/25/25 08:45		Eman	ОК
4	Q2399-01	TP-13	SAM	06/25/25 08:53		Eman	ОК
5	Q2399-04	TP-13	SAM	06/25/25 09:00		Eman	ОК
6	Q2399-05	EP-7	SAM	06/25/25 09:08		Eman	ОК
7	Q2399-08	EP-7	SAM	06/25/25 09:15		Eman	ОК
8	Q2405-01	MH-M/H	SAM	06/25/25 09:23		Eman	ОК
9	Q2405-04	MH-M/N	SAM	06/25/25 09:30		Eman	ОК
10	Q2409-02	COP-SOIL-PILE	SAM	06/25/25 09:37		Eman	ОК



Instrument ID: KONELAB

Review By	rubina		Review On	6/26/2025 9:13:27 AM		
Supervise By	Iwona		Supervise On	6/26/2025 10:00:08 AM		
SubDirectory	LB136261		Test	Reactive Cyanide		
STD. NAME STD REF.#						
ICAL Standard		2113665,WP113666				
ICV Standard		WP113667				
CCV Standard		WP113661				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		N/A				
Chk Standard		WP112643,WP112900,WP113668				

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	0.0PPBCN	0.0PPBCN	CAL1	06/25/25 09:56		rubina	ОК
2	5.0PPBCN	5.0PPBCN	CAL2	06/25/25 09:56		rubina	ОК
3	10PPBCN	10PPBCN	CAL3	06/25/25 09:56		rubina	ок
4	50PPBCN	50PPBCN	CAL4	06/25/25 09:56		rubina	ок
5	100PPBCN	100PPBCN	CAL5	06/25/25 09:56		rubina	ок
6	250PPBCN	250PPBCN	CAL6	06/25/25 09:56		rubina	ок
7	500PPBCN	500PPBCN	CAL7	06/25/25 09:56		rubina	ок
8	ICV1	ICV1	ICV	06/25/25 12:48		rubina	ок
9	ICB1	ICB1	ICB	06/25/25 12:48		rubina	ок
10	CCV1	CCV1	CCV	06/25/25 12:48		rubina	ОК
11	CCB1	CCB1	ССВ	06/25/25 12:48		rubina	ОК
12	PB168605BL	PB168605BL	MB	06/25/25 12:48		rubina	ок
13	Q2394-04	MH-K/L	SAM	06/25/25 12:48		rubina	ОК
14	Q2394-04DUP	MH-K/LDUP	DUP	06/25/25 12:56		rubina	ОК
15	Q2399-04	TP-13	SAM	06/25/25 12:56		rubina	ок
16	Q2399-08	EP-7	SAM	06/25/25 12:56		rubina	ок
17	Q2405-04	MH-M/N	SAM	06/25/25 12:56		rubina	ок
18	Q2409-02	COP-SOIL-PILE	SAM	06/25/25 12:56		rubina	ОК



Instrument ID: KONELAB

Review By	rubina		Review On	6/26/2025 9:13:27 AM		
Supervise By	lwona		Supervise On	6/26/2025 10:00:08 AM		
SubDirectory	LB136261		Test	Reactive Cyanide		
STD. NAME	E STD REF.#					
ICAL Standard		WP113660,WP113661,WP113662,WP113663,WP113664,WP113665,WP113666				
ICV Standard		WP113667				
CCV Standard		WP113661				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		N/A				
Chk Standard		WP112643,WP112900,WP113668				

19	Q2415-04	WC-1	SAM	06/25/25 12:56	rubina	ОК
20	PB168606BL	PB168606BL	MB	06/25/25 12:56	rubina	ОК
21	Q2403-01	LAW-25-0092	SAM	06/25/25 13:03	rubina	ОК
22	CCV2	CCV2	CCV	06/25/25 13:03	rubina	ОК
23	CCB2	CCB2	ССВ	06/25/25 13:03	rubina	ОК
24	Q2403-01DUP	LAW-25-0092DUP	DUP	06/25/25 13:03	rubina	ОК
25	CCV3	CCV3	CCV	06/25/25 13:07	rubina	ОК
26	ССВЗ	CCB3	ССВ	06/25/25 13:07	rubina	ОК



Instrument ID: WC SC-3

Review By	jignesh	Review On	6/27/2025 11:00:53 AM
Supervise By	Iwona	Supervise On	6/27/2025 11:11:51 AM
SubDirectory	LB136287	Test	TS
STD. NAME STD REF.#			
ICAL Standard	N/A		
ICV Standard	N/A		
CCV Standard	N/A		
ICSA Standard	N/A		
CRI Standard	N/A		
LCS Standard	N/A		
Chk Standard	N/A		

Sr#	Sampleld	ClientID	QcType	Date	Comment	Operator	Status
1	LB136287BL	LB136287BL	MB	06/26/25 09:00		jignesh	ОК
2	Q2409-02	COP-SOIL-PILE	SAM	06/26/25 09:00		jignesh	ОК
3	Q2409-02DUP	COP-SOIL-PILEDUP	DUP	06/26/25 09:00		jignesh	ОК



Instrument ID: WC SC-3

Daily Analysis Runlog For Sequence/QCBatch ID # LB136288

Review By	jignesh		Review On	6/27/2025 11:07:31 AM
Supervise By	Iwona		Supervise On	6/27/2025 11:11:39 AM
SubDirectory	LB136288		Test	TVS
STD. NAME		STD REF.#		
ICAL Standard		N/A		
ICV Standard		N/A		
CCV Standard		N/A		
ICSA Standard		N/A		
CRI Standard		N/A		
LCS Standard		N/A		
Chk Standard		N/A		

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	LB136288BL	LB136288BL	MB	06/26/25 15:00		jignesh	ОК
2	Q2409-02	COP-SOIL-PILE	SAM	06/26/25 15:00		jignesh	ОК
3	Q2409-02DUP	COP-SOIL-PILEDUP	DUP	06/26/25 15:00		jignesh	ОК



Instrument ID: TITRAMETRIC

Daily Analysis Runlog For Sequence/QCBatch ID # LB136315

Review By	rubina Review On		Review On	6/27/2025 1:28:27 PM
Supervise By	lwo	ona	Supervise On	6/27/2025 1:29:17 PM
SubDirectory	LB136315 Test		Test	Reactive Sulfide
STD. NAME		STD REF.#		
ICAL Standard		N/A		
ICV Standard		N/A		
CCV Standard		N/A		
ICSA Standard		N/A		
CRI Standard		N/A		
LCS Standard		N/A		
Chk Standard		W3105,W3213,W3149		

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	PB168629BL	PB168629BL	MB	06/27/25 11:30		rubina	ок
2	Q2409-02	COP-SOIL-PILE	SAM	06/27/25 11:33		rubina	ОК
3	Q2409-02DUP	COP-SOIL-PILEDUP	DUP	06/27/25 11:36		rubina	ОК
4	Q2414-04	WC-1	SAM	06/27/25 11:38		rubina	ОК
5	Q2415-04	WC-1	SAM	06/27/25 11:41		rubina	ок
6	Q2416-04	MH-G/H	SAM	06/27/25 11:44		rubina	ок
7	Q2420-02	72-11933	SAM	06/27/25 11:47		rubina	ОК
8	Q2429-04	TP-4	SAM	06/27/25 11:50		rubina	ок
9	Q2430-04	MH-E/F	SAM	06/27/25 11:53		rubina	ОК



Prep Standard - Chemical Standard Summary

Prepbatch ID : PB168605,PB168629, Sequence ID/Oc Batch ID: LB136249 LB136257 LB136261 LB136287 LB136288 LB136315	Order ID : Test :	Q2409 Corrosivity,Ignitability,Percent Solids,Reactive Cyanide,Reactive Sulfide,TS,TVS
Sequence ib/QC batch ib. ED 130243,ED 130237,ED 130207,ED 130200,ED 130200,ED 130310,	Prepbatch ID : Sequence ID/Qc Bat	

Standard ID :

WP111294,WP112643,WP112900,WP112995,WP113086,WP113659,WP113660,WP113661,WP113662,WP113663,WP 113664,WP113665,WP113666,WP113667,WP113668,

Chemical ID :

M6151,W2668,W2926,W3019,W3071,W3093,W3105,W3112,W3113,W3139,W3149,W3161,W3173,W3178,W3191,W3 200,W3203,W3213,W3214,W3220,



Recipe ID 11	NAME Sodium hydroxide absorbing solution 0.25 N	<u>NO.</u> WP111294	Prep Date 01/07/2025		<u>Prepared</u> <u>By</u> Niha Farheen Shaik	ScaleID WETCHEM_S CALE_5 (WC	<u>PipetteID</u> None	Supervised By Iwona Zarych 01/07/2025
FROM	21.00000L of W3112 + 210.00000gra	I am of W311:	3 = Final Qua	ntity: 21.000 L		SC-5)		0

Recipe				Expiration	Prepared			Supervised By
ID	NAME	<u>NO.</u>	Prep Date	<u>Date</u>	<u>By</u>	<u>ScaleID</u>	PipettelD	Iwona Zarych
539	CN BUFFER	WP112643	04/09/2025	10/09/2025	Niha Farheen	WETCHEM_S	None	2
					Shaik	CALE_5 (WC		04/09/2025
FROM	138.00000gram of W2668 + 862.000	00ml of W3	112 = Final Q	uantity: 1000.0	00 ml	SC-5)		
	-			-				



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Wet Chemistry STANDARD PREPARATION LOG

<u>Recipe</u> <u>ID</u> 607	NAME PYRIDINE-BARBITURIC ACID	<u>NO.</u> WP112900	Prep Date 05/01/2025		Prepared By Rubina Mughal	ScaleID WETCHEM_S CALE_8 (WC	PipettelD Glass Pipette-A	Supervised By Iwona Zarych 05/01/2025
FROM	145.00000ml of W3112 + 15.00000gr ml	ram of W32(03 + 15.00000)ml of M6151 +	75.00000ml of	SC-7) W3019 = Final	Quantity: 250.	000

			Expiration	Prepared			Supervised By
NAME	<u>NO.</u>	Prep Date	<u>Date</u>	<u>By</u>	<u>ScaleID</u>	PipettelD	Jignesh Parikh
	WP112995	05/07/2025	07/07/2025	lwona Zarych	None		
5PPM							05/07/2025
1.00000ml of W3173 + 199.00000ml	of WP11129	94 = Final Qu	antity: 200.000	ml		(000)	
	Cyanide LCS Spike Solution, 5PPM	Cyanide LCS Spike Solution, <u>WP112995</u> 5PPM	Cyanide LCS Spike Solution, <u>WP112995</u> 05/07/2025 5PPM	NAMENO.Prep DateDateCyanide LCS Spike Solution, 5PPMWP11299505/07/202507/07/2025	NAMENO.Prep DateDateByCyanide LCS Spike Solution,WP11299505/07/202507/07/2025Iwona Zarych	NAMENO.Prep DateDateByScaleIDCyanide LCS Spike Solution, 5PPMWP11299505/07/202507/07/2025Iwona ZarychNone	NAMENO.Prep DateDateByScaleIDPipetteIDCyanide LCS Spike Solution, 5PPMWP11299505/07/202507/07/2025Iwona ZarychNoneWETCHEM_P IPETTE_3 (WC)

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<u>Recipe</u> <u>ID</u> 160	NAME 0.5M ZINC ACETATE	<u>NO.</u> WP113086	Prep Date 05/15/2025	Expiration Date 08/18/2025	Prepared By Rubina Mughal	CALE_8 (WC	<u>PipetteID</u> None	Supervised By Iwona Zarych 05/15/2025
<u>FROM</u>	0.88900L of W3112 + 1.00000ml of N	и 6151 + 110).00000gram c	of W2926 = Fir	nal Quantity: 100	SC-7) 00.000 ml		

Recipe				Expiration	Prepared			Supervised By
ID	NAME	<u>NO.</u>	Prep Date	<u>Date</u>	<u>By</u>	<u>ScaleID</u>	PipetteID	Iwona Zarych
3456	Cyanide Intermediate Working Std, 5PPM	<u>WP113659</u>	06/25/2025	06/26/2025	Rubina Mughal	None	WETCHEM_P IPETTE_3	06/27/2025
<u>FROM</u>	0.25000ml of W3214 + 49.75000ml o	of WP111294	1 = Final Qua	ntity: 50.000 n	nl		(WC)	



Recipe ID 4	NAME Calibation standard 500 ppb	<u>NO.</u> WP113660	Prep Date 06/25/2025	Expiration Date 06/26/2025	<u>Prepared</u> <u>By</u> Rubina Mughal	<u>ScaleID</u> None	PipettelD WETCHEM_P IPETTE_3	Supervised By Iwona Zarych 06/27/2025
FROM	45.00000ml of WP111294 + 5.00000	ml of WP113	3659 = Final (Quantity: 50.00	0 ml		(WC)	
Besins				Funitation	Drawood			

Recipe				Expiration	Prepared			Supervised By
<u>ID</u>	NAME	<u>NO.</u>	Prep Date	<u>Date</u>	<u>By</u>	<u>ScaleID</u>	PipettelD	Iwona Zarych
3761	Calibration-CCV CN Standard 250	WP113661	06/25/2025	06/26/2025	Rubina Mughal	None	WETCHEM_F	
	ppb						IPETTE_3	06/27/2025
FROM	2.50000ml of WP113659 + 47.50000	ml of WP11	1294 = Final (Quantity: 50.00	0 ml		(WC)	



Recipe ID 6	NAME Calibration Standard 100 ppb	<u>NO.</u> WP113662	Prep Date 06/25/2025		<u>Prepared</u> <u>By</u> Rubina Mughal	<u>ScaleID</u> None	PipettelD WETCHEM_F IPETTE_3	Supervised By Iwona Zarych 06/27/2025
<u>FROM</u>	1.00000ml of WP113659 + 49.00000	ml of WP11	1294 = Final (Quantity: 50.00	0 ml		(WC)	
				Evpiration				

Recipe				Expiration	Prepared			Supervised By
ID	NAME	<u>NO.</u>	Prep Date	<u>Date</u>	<u>By</u>	<u>ScaleID</u>	PipettelD	Iwona Zarych
7	Calibration Standard 50 ppb	WP113663	06/25/2025	06/26/2025	Rubina Mughal	None	WETCHEM_P	2
							IPETTE_3	06/27/2025
FROM	0.50000ml of WP113659 + 49.50000	ml of WP11	1294 = Final	Quantity: 50.00	0 ml		(WC)	



Recipe ID 8	NAME Calibration Standard 10 ppb	<u>NO.</u> WP113664	Prep Date 06/25/2025		Prepared By Rubina Mughal	<u>ScaleID</u> None	PipettelD WETCHEM_P IPETTE_3	Supervised By Iwona Zarych 06/27/2025
<u>FROM</u>	1.00000ml of WP113660 + 49.00000)ml of WP11	1294 = Final (Quantity: 50.00	0 ml		(WC)	

Recipe				Expiration	Prepared			Supervised By
<u>ID</u>	NAME	<u>NO.</u>	Prep Date	<u>Date</u>	<u>By</u>	<u>ScaleID</u>	PipetteID	Iwona Zarych
9	Calibration Standard 5 ppb	WP113665	06/25/2025	06/26/2025	Rubina Mughal	None	WETCHEM_P	
							IPETTE_3	06/27/2025
FROM	0.50000ml of WP113660 + 49.50000	ml of WP11	1294 = Final	Quantity: 50.00	0 ml		(WC)	



Recipe ID 167	NAME 0 ppb CN calibration std	<u>NO.</u> WP113666	Prep Date 06/25/2025	<u>Prepared</u> <u>By</u> Rubina Mughal	<u>ScaleID</u> None	<u>PipetteID</u> None	Supervised By Iwona Zarych 06/27/2025
FROM	50.00000ml of WP111294 = Final Q	Jantity: 50.0	00 ml				

<u>Recipe</u> <u>ID</u>	NAME	<u>NO.</u>	Prep Date	Expiration Date	<u>Prepared</u> <u>By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u> Iwona Zarych
2168	RCN ICV STD, 100 PPB	<u>WP113667</u>	06/25/2025	06/26/2025	Rubina Mughal	None	WETCHEM_P IPETTE_3	06/27/2025
FROM	1.00000ml of WP112995 + 49.00000	ml of WP11	1294 = Final	Quantity: 50.00	0 ml		(WC)	



Recipe <u>ID</u> 1582	NAME	<u>NO.</u> WP113668	Prep Date 06/25/2025	Expiration Date 06/26/2025	<u>Prepared</u> <u>By</u> Rubina Mughal	ScaleID WETCHEM_S CALE_5 (WC	PipetteID Glass Pipette-A	Supervised By Iwona Zarych 06/27/2025
FROM	0.08000gram of W3139 + 20.00000n	nl of W3112	= Final Quan	tity: 20.000 m	<u> </u>	SC-5)		



CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9530-33 / Hydrochloric Acid, Instra-Analyzed (cs/6x2.5L)	22G2862015	08/18/2025	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 #
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 / Received By	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.	AL14455-3 / buffer solution pH 7 yellow	4308H30	07/31/2025	01/02/2024 / JIGNESH	12/06/2023 / Iwona	W3071
Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	566002 / BUFFER PH 7.00 GREEN 1PINT PK6	44001f99	12/31/2025	04/03/2024 / jignesh	04/02/2024 / jignesh	W3093



CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	AL69870-8 / SODIUM THIOSULFATE,0.025N,4LIT RE	4403S13	09/30/2025	04/22/2024 / Iwona	04/22/2024 / Iwona	W3105
Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	DIW / DI Water	Daily Lab-Certified	07/03/2029	07/03/2024 / Iwona	07/03/2024 / Iwona	W3112
Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	PC19510-7 / Sodium Hydroxide Pellets 12 Kg	23B1556310	12/31/2025	07/08/2024 / Iwona	07/08/2024 / Iwona	W3113

ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
JTE494-6 / CHLORAMINE-T BAKER 250GM	10239484	09/09/2029	09/09/2024 / Iwona	09/09/2024 / Iwona	W3139
(JTE494-6 / CHLORAMINE-T BAKER	JTE494-6 / 10239484 CHLORAMINE-T BAKER	ItemCode / ItemNameLot #DateJTE494-6 /1023948409/09/2029CHLORAMINE-T BAKER09/09/2029	ItemCode / ItemName Lot # Date Opened By JTE494-6 / 10239484 09/09/2029 09/09/2024 / CHLORAMINE-T BAKER Iwona	ItemCode / ItemNameLot #DateOpened ByReceived ByJTE494-6 / CHLORAMINE-T BAKER1023948409/09/202909/09/2024 / Iwona09/09/2024 / Iwona09/09/2024 / Iwona

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

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



CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	LC135457 / Cyanide Standard, 1000 PPM, Second Source	45010168	07/17/2025	01/24/2025 / Iwona	01/24/2025 / Iwona	W3173
Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	AL14055-3 / PH 4 BUFFER SOLUTION	2411A93	10/30/2026	04/01/2025 / JIGNESH	01/27/2025 / jignesh	W3178
Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	1601-1 / PH 10.01 BUFFER,COLOR CD 475ML	2410F80	03/31/2026	04/01/2025 / JIGNESH	03/13/2025 / jignesh	W3191
Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
RICCA CHEMICAL COMPANY	1615-16 / pH 12.00 Buffer	2504F20	09/30/2026	04/11/2025 / Iwona	04/11/2025 / Iwona	W3200
Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	EM-BX0035-3 / Barbituric Acid, 100 gms	WXBF3271V	05/16/2029	04/21/2025 / Iwona	04/21/2025 / Iwona	W3203
Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	AL35830-4 / IODINE SOLUTION .025N 1L	MK25A21527	01/20/2029	05/21/2025 / Iwona	05/21/2025 / Iwona	W3213



CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	RC2543-4 / CYANIDE STD 1000PPM 4OZ	1505H73	11/30/2025	05/21/2025 / Iwona	05/21/2025 / Iwona	W3214
Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #

RICCA CHEMICAL COMPANY®

W³07/ Mc 12/6/23 Certificate of Analysis 12

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

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

Lot Number: 4308H30

Product Number: 1551

Manufacture Date: AUG 09, 2023 Expiration Date: JUL 2025

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

°C pH	0 7.12	5 7.09	$\begin{array}{c} 10 \\ 7.06 \end{array}$	15 7.04	20 7.02	$\begin{array}{c} 25 \\ 7.00 \end{array}$	30 6.99	35 6.98	$\begin{array}{c} 40 \\ 6.98 \end{array}$	45 6.97	50 6.97	

Name	CAS#	Grade	
Water	7732-18-5	ACS/ASTM/USP/I	RP
Sodium Phosphate Dibasic	7558-79-4	ACS	
Potassium Dihydrogen Phosphate	7778-77-0	ACS	
Preservative	Proprietary		
Yellow Dye	Proprietary	1111 B. Luce	
Sodium Hydroxide	1310-73-2	Reagent	
Test	Specification	Result	
Appearance	Yellow liquid	Passed	*Not a certified value
Test	Certified Value	Uncertainty	NIST SRM#
pH at 25°C (Method: SQCP027, SQCP033)	7.002	0.02	186-I-g, 186-II-g, 191d
Specification	Re	ference	
Commercial Buffer Solutions	AS	TM (D 1293 B)	
Buffer A		TM (D 5464)	
Buffer A		ГМ (D 5128)	

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

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

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

Faul Brandon

Paul Brandon (08/09/2023) Production Manager This document is designed to comply with ISO Guide 31 "Reference Materials --Contents of Certificates and Labels."

This product was tested in an ISO 17025 Accredited Laboratory

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

Sigma-Aldrich

W3019 Rec 4/3/23

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

Product Name: Pyridine - anhydrous, 99.8%

Product Number:	270970
Batch Number:	SHBQ2113
Brand:	SIAL
CAS Number:	110-86-1
MDL Number:	MFCD00011732
Formula:	C5H5N
Formula Weight:	79.10 g/mol
Quality Release Date:	15 DEC 2022

Certificate of Analysis

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	_ 	< 0.0001 %	

Larry Coers, Director **Quality Control** Sheboygan Falls, WI US

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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.



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





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	D. L.
ACS - Assay (as HCI) (by acid-base titrn)		Result
ACS - Color (APHA)	36.5 - 38.0 %	37.9 %
ACS - Residue after Ignition	≤ 10	5
ACS - Specific Gravity at 60°/60°F	≤ 3 ppm	< 1 ppm
ACS – Bromide (Br)	1.185 - 1.192	1.191
ACS - Extractable Organic Substances	≤ 0.005 %	< 0.005 %
ACS – Free Chlorine (as Cl ₂)	≤ 5 ppm	< 1 ppm
Phosphate (PO4)	≤ 0.5 ppm	< 0.5 ppm
Sulfate (SO4)	≤ 0.05 ppm	< 0.03 ppm
Sulfite (SO3)	≤ 0.5 ppm	< 0.3 ppm
Ammonium (NH4)	≤ 0.8 ppm	0.3 ppm
Trace Impurities - Arsenic (As)	≤ 3 ppm	< 1 ppm
Trace Impurities - Aluminum (Al)	≤ 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
	≤ 1.0 ppb	0.2 ppb
Trace Impurities – Beryllium (Be)	≤ 1 .0 ppb	< 0.2 ppb
Trace Impurities - Bismuth (Bi)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Boron (B)	≤ 20.0 ppb	< 5.0 ppb
Trace Impurities - Cadmium (Cd)	≤ 1.0 ppb	< 0.3 ppb
Trace Impurities - Calcium (Ca)	≤ 50.0 ppb	163.0 ppb
Trace Impurities – Chromium (Cr)	≤ 1.0 ppb	0.7 ppb
Trace Impurities - Cobalt (Co)	≤ 1.0 ppb	< 0.3 ppb
Trace Impurities – Copper (Cu)	≤ 1.0 ppb	< 0.1 ppb
Trace Impurities - Gallium (Ga)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Germanium (Ge)	≤ 3.0 ppb	< 2.0 ppb
Trace Impurities – Gold (Au)	≤ 4.0 ppb	0.6 ppb
Heavy Metals (as Pb)	≤ 100 ppb	< 50 ppb
Trace Impurities – Iron (Fe)	≤ 15 ppb	6 ppb

>>> Continued on page 2 >>>

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





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
Trace Impurities – Zirconium (Zr)	≤ 1.0 ppb	0.3 ppb
		- FFF

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





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



Vice President Global Quality

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

(sodium dihydrogen phosphate, monohydrate)





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

Certificate of Analysis

Meets ACS Reagent Chemical Requirements,

Test	Specification	Result
Assay (NaH2PO4 · H2O)	98.0 - 102.0 %	99.5
oH of 5% Solution at 25℃	4.1 - 4.5	4.3
nsoluble Matter	<= 0.01 %	< 0.01
Chloride (Cl)	<= 5 ppm	< 5
ACS – Sulfate (SO4)	<= 0.003 %	< 0.003
Calcium (Ca)	<= 0.005 %	<0.005
Potassium (K)	<= 0.01 %	< 0.01
leavy Metals (as Pb)	<= 0.001 %	< 0.001
Frace 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

James Techie

Jamie Ethier Vice President Global Quality

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

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

Certificate of Analysis

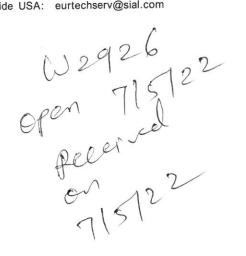
Product Name: CCTC Zinc acetate dihydrate - ACS reagent, ≥98%

Product Number:
Batch Number:
Brand:
CAS Number:
MDL Number:
Formula:
Formula Weight:
Quality Release Date:

MKCQ9159 SIGALD 5970-45-6 MFCD00066961 C4H6O4Zn · 2H2O 219.51 g/mol 06 JAN 2022

383058

Hyc 0 2n2+ + 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 (Cl)	_ < 5 ppm	< 5 ppm	
Iron (Fe)	< 5 ppm	< 5 ppm	
Potassium (K)	< 0.01 %	0.00 %	
Magnesium (Mg)	< 0.005 %	0.003 %	
Sodium (Na)	< 0.05 %	0.03 %	
Lead (Pb)	< 0.002 %	< 0.001 %	
pH	6.0 - 7.0	6.1	
Sulfate (SO4)	< 0.005 %	< 0.005 %	
Complexometric EDTA	98.0 - 101.0 %	100.3 %	
Meets ACS Requirements	Meets Requirements	Meets Requirements	

Larry Coers, Director Quality Control Milwaukee, WI US

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[®] 3^{003} 0^{001} Certificate of Analysis 0^{010}

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

Manufacture Date: JAN 08, 2024

Expiration Date: DEC 2025

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

Product Number: 1551

°C pH	0 7.12	5 7.09	10 7.06	15 7.04	20 7.02	25 7.00	30 6.99	35 6.98	40 6.98	45 6.97	50 6.97	
Name						CA	S#		1.15	Grade		
Water						77	32-18-5			ACS/AS	STM/USP/I	С Р
Sodiun	n Phosp	hate Di	basic			758	58-79-4	-		ACS		
Potass	ium Dił	nydrogen	n Phospi	hate		77	78-77-0			ACS		
Preserv	vative					Pro	prietar	У				
Yellow	Dye				•		prietar					
Sodium	n Hydro	xide					.0-73-2	· .				
Test						1.1	Spec	ification	1	Re	sult	
Appear	ance				LEC.		Yell	ow liqui	d	Pas	ssed	*Not a certified value
<u>Fest</u>	Sec.				54-		Cert	ified Va	lue	Un	certainty	NIST SRM#
pH at 2	t 25°C (Method: SQCP027, SQCP033)			033)		7.004	4		0.0	2	186-I-g, 186-II-g, 191d	
Specific	ation		1			J.	- 21	- 11	Refe	rence		
Comme	rcial Bu	ffer Sol	utions						ASTN	A (D 1293	B)	
Buffer A						ASTM (D 5464)						
Buffer A	1								ASTN	4 (D 5128		

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
Decommonded Steven 1500	2000 (F00) - 000T)	

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

Lot Number: 4401F99

Paul Drondon

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

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W3105 Received on 4/22/24 by IZ

Certificate of Analysis

Sodium Thiosulfate, 0.0250 Normal (N/40)

Lot Number: 4403S13

Product Number: 7900

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

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

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

Test	Specification	\mathbf{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	АРНА (4500-О С)
Standard Sodium Thiosulfate Titrant, 0.025 M	АРНА (5530 С)
Standard Sodium Thiosulfate Solution (0.025 N)	EPA (SW-846) (9031)
Standard Sodium Thiosulfate solution (0.025 N)	EPA (SW-846) (9034)

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

Part Number	Size / Package Type	Shelf Life (Unopened Container)
7900-1	4 L natural poly	18 months
7900-16	500 mL natural poly	18 months
7900-1CT	4 L Cubitainer®	18 months
7900-32	1 L natural poly	18 months
D 110/ 1500	8000 (* 00 F 0.00 F)	

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

Fand Brandon

Paul Brandon (03/29/2024) Production Manager This document is designed to comply with ISO Guide 31 "Reference Materials --Contents of Certificates and Labels."

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Certificate of Analysis



Sodium Hydroxide (Pellets)

Material:0583Grade:ACS GRADEBatch Number:23B1556310

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

Pellets

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

Internal ID #: 710

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



Certificate of Analysis



Sodium Hydroxide (Pellets)

Material:0583Grade:ACS GRADEBatch Number:23B1556310

 Chemical Formula:
 NaOH
 Manufacture Date:
 12/14/2022

 Molecular Weight:
 40
 Expiration Date:
 12/31/2025

 CAS #:
 1310-73-2
 Storage:
 Room Temperature

Spec Set: 0583ACS

Internal ID #: 710

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



W3139 Received on 9/9/24 by IZ

Product No.:

A12044

Product: Chloramine-T trihydrate, 98%

Lot No.: 10239484

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

Order our products online thermofisher.com/chemicals

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

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

W3149 Received on 10/16/24 by IZ

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

1490 Lammers Pike Batesville, IN 47006

1-888-GO-RICCA

http://www.riccachemical.com

customerservice@riccachemical.com

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

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-Cl C)
Starch Indicator	EPA (345.1)

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

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

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

Paul Brandon

Paul Brandon (08/28/2024) Production Manager

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RICCA CHEMICAL COMPANY[®] W3161 Rec. on 12/09/24 by IZ

Certificate of Analysis

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

Lot Number:	2411E26	Pr
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oduct Number: 1493

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

Manufacture Date: NOV 11, 2024

Expiration Date: OCT 2026

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

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

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

Test	Specification	Result	
Appearance	Colorless liquid	Passed	*Not a certified value.
Test	Certified Value	Uncertainty	NIST SRM#
pH at 25°C (Method: SQCP027, SQCP033)	1.994	0.02	185i, 186-I-g, 186-II-g

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

Part Number	Size / Package Type	Shelf Life (Unopened Container)
1493-1	4 L natural poly	24 months
1493-16	500 mL natural poly	24 months
1493-1CT	4 L Cubitainer®	24 months
1493-2.5	10 L Cubitainer®	24 months
1493-32	1 L natural poly	24 months
Recommended Storage: 15°C	- 30°C (59°F - 86°F)	

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

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Jose Pena (11/11/2024) Operations Manager

This product was tested in an ISO 17025 Accredited Laboratory

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Part of TCP Analytical Group

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

Certificate of Analysis

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

Product Code:	LC13545		Manufacture Date: January 16, 2025	
Lot Number:	45010168		Expiration Date: July 17, 2025	
Test		Specification	Result	
Appearance (cla	arity)	clear solution	clear solution	
Appearance (co	lor)	colorless	colorless	
Concentration (0	CN)	0.990 - 1.010mg/mL	1.000mg/mL	
Concentration (CN)	990 - 1,010ppm	1,000ppm	
Traceable to NIS	ST SRM	Report	999b	

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

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

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

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

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

Suffix	1	2	3/35/36/365	4/4C	5	6	7	8	9	20	44	200	246	486
Size	500mL or g	1L or 1kg	2.5L/2.5L Coated/6x2.5L/6x2.5L Coated	4L	20L	10L	125mL	25g	100g	20x20mL	4x4L	200L	24x6mL	48x6mL

Michael Montelsone

Michael Monteleone Chemistry Supervisor - Quality Control 2025011610:36:11bsturges-0-0

RICCA CHEMICAL COMPANY®

Certificate of Analysis

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

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231

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

(ed) 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 correspondence of the test of te

Lot Number: 2411A93

00	0	F	10			0 01117.21	n other p	i varues a	it their co	rrespondi	ng tempera	tures are accurate to ± 0.05 .
рH	4.00	о 4.00	10 4.00	15	20	25 4.00	30	35	40	45	50 4.06	

Product Number: 1501

Name	CAS#	Grade	
Water Potassium Acid Phthalate Preservative Red Dye	7732-18-5 877-24-7 Proprietary Proprietary	ACS/ASTM/USP/ Buffer Commercial Purified	EP
Test	Specification	Result	
Appearance	Red liquid	Passed	*Not a certified value
Test	Certified Value	Uncertainty	NIST SRM#
pH at 25°C (Method: SQCP027, SQCP033)	4.008	0.02	185i, 186-I-g, 186-II-g
Specification	Ref	erence	
Commercial Buffer Solutions Buffer B Buffer B pH measurements were performed in our Pocomoke City, M certified traceable to National Institute of Standards and T chain of comparisons. The uncertainty is calculated from th the NIST Standard Reference Material, and the uncertainty 5% coverage in a normal distribution. Volumetric glasswar t is calibrated before first use and recalibrated regularly in alibrated regularly with weights certified traceable to the N efore first use and recalibrated regularly with a thermomer	AST AST AST ID laboratory under ISO/IEC 1702 echnology (NIST) Standard Refere e uncertainty of the measurement y of the measurement process. The re complies with Class A tolerance accordance with ASTM E 542 and	M (D 1293 B) M (D 5464) M (D 5128) 5 accreditation (ANAB Conce Material as indicated variation from sample to uncertainty is multiplied requirements of ASTM E	above via an unbroken sample, the uncertainty in by k=2, corresponding to 288 and NIST Circular 434; 74-461 Belance are

	Size / Package Type	Shelf Life (Il monored Que to)
1501-16 1501-2.5 1501-5 Recommended Storage: 15°C - 3	500 mL natural poly 10 L Cubitainer® 20 L Cubitainer®	Shelf Life (Unopened Container) 24 months 24 months 24 months
Storage, 10 C . 3	U°C (59°F - 86°F)	

CCA CHEMICAL COMPANY U3191

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

100.0

Product Number: 1601

Manufacture Date: OCT 09, 2024 Expiration Date: MAR 2026

Page 1 of 2

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 correspon

°C					01 00 <u>20</u>	Сощу. Al	1 other pl	1 values a	t their con	respondi	na tommomet
\cup	0	5	10	15	20	05				a coponal	ng temperatures are accurate to ± 0.05 .
$_{ m pH}$	10.31	10.23	10.17	10 11	10.05	25	30	35	40	50	
				10.11	10.00	10.00	9.95	9.91	9.87	9.81	

Name	CAS#	Grade	The second s	
Water	7732-18-5			
Sodium Carbonate	The second se	ACS/ASTM/USP/	ΈP	
Sodium Bicarbonate	497-19-8	ACS		
Sodium Hydroxide	144-55-8	ACS		
Preservative	1310-73-2	Reagent		
Blue Dye	Proprietary		in the second	
	Proprietary			
Test	(1 an		Report Ramon man	
Appearance	Specification	Result		
Fest	Blue liquid	Passed	*Not a certified valu	
· · · · · · · · · · · · · · · · · · ·	Certified Value	Uncertainty		
oH at 25°C (Method: SQCP027, SQCP033)	10.009	the second s	NIST SRM#	
Specification		0.02	186-I-g, 186-II-g, 191d	
Commercial Buffer Solutions	Refe	erence		
Buffer C	AST			
Buffer C		M (D 5464)	× 80 T. 10 . 2010 T. 10 10	
pH measurements were performed in our Possenale. City		M (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. 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	QL-167 'F Ary
1601-1		Shelf Life (Unopened Container)
	E00 T	18 months
1601-1CT	500 mL natural poly 4 L Cubitainer®	18 months
1601-2.5 1601-32		18 months
1001-32		
1601-5	+ D natural poly	18 months
ersion: 1.3		10 HIUH.HS
	Lot Number: 2410F80 Product Nu	

RICCA CHEMICAL COMPANY®

W3200 Received on 04/11/2025 by IZ

Certificate of Analysis

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

C

Lot Number: 2504F20 Product Number: 1615

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

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

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

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

Test	Specification	Result	
Appearance	Colorless liquid	Passed	*Not a certified value.
Test	Certified Value	Uncertainty	NIST SRM#
pH at 25°C (Method: SQCP027, SQCP033)	12.009	0.02	186-I-g. 186-II-g. 191d

pH at 25°C (Method: SQCP027, SQCP033) 12.009 0.02 186-I-g, 186-II-g, 191d pH measurements were performed in our Pocomoke City, MD laboratory under ISO/IEC 17025 accreditation (ANAB Certificate L2387.01) and are certified traceable to National Institute of Standards and Technology (NIST) Standard Reference Material as indicated above via an unbroken chain of comparisons. The uncertainty is calculated from the uncertainty of the measurement variation from sample to sample, the uncertainty in the NIST Standard Reference Material, and the uncertainty of the measurement process. The uncertainty is multiplied by k=2, corresponding to 95% coverage in a normal distribution. Volumetric glassware complies with Class A tolerance requirements of ASTM E 288 and NIST Circular 434; it is calibrated before first use and recalibrated regularly in accordance with ASTM E 542 and NIST Procedure NBSIR 74-461. Balances are calibrated regularly with weights certified traceable to the NIST national mass standard. Thermometers and temperature probes are calibrated before first use and recalibrated regularly with a thermometer traceable to NIST standards. All products are prepared according to master documents that assure manufacture according to validated methods. Batch records document raw material traceability and production and testing history for each lot manufactured.

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

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

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Jose Pena (04/08/2025) Operations Manager

This product was tested in an ISO 17025 Accredited Laboratory

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

Certificate of Analysis

Product Name: Barbituric acid - ReagentPlus® , 99%

Product Number: Batch Number: Brand: CAS Number: Formula: Formula:	185698 WXBF3271V SIAL 67-52-7 C4H4N2O3 128.09. g/mol	
Formula Weight: Quality Release Date:	128,09 g/mol 16 MAY 2024	O' N SO H

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



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.





N3213 Deceived on 5/21/25 6y12 Certificate of Analysis

WW

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 on file	Confirmed	Confirmed	
Appearance	Passes Test	Passes Test	
Normality, N	0.0200 - 0.0300	0.0268	

Signature	
We certify that this batch conforms to the specifications listed above.	
This document has been produced electronically and is valid without a signature.	
Michelle Bales - Sr. Manager Quality Assurance Avantor Performance Materials, LLC	×
For Professional use in Laboratory or Manufacturing. Not for tise as an Active Pharmace	utical Ingredient or Food or Animal Feed. Suitability and intended use of the product remains the responsibility of the user.
VWR International LLC, Radnor Corporate Center, Building One	, Suite 200, 100 Matsonford Road, Radnor, PA 19087, USA.

VWR International bv, Haasrode Research Park Zone 2020, Geldenaaksebaan 464, 3001 Leuven, Belgium

RICCA CHEMICAL COMPANY®

W3214 Received on 5/21/25 by IZ

Certificate of Analysis

Cyanide Standard, 1000 ppm CN

Lot Number: 1505H73 Product Number: 2543

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

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

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

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

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

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

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

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

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

Yalle-

Ernest Mahan (05/08/2025) Plant Manager

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



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

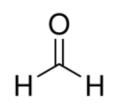
Certificate of Analysis

Formaldehyde solution - ACS reagent, 37 wt. % in H2 O, contains 10-15% Methanol as stabilizer (to prevent

polymerization)Product Number:252549Batch Number:MKCW7Brand:SIALMDL Number:MFCD00Quality Release Date:05 DECRecommended Retest Date:DEC 20

Product Name:

252549 MKCW7614 SIAL MFCD00003274 05 DEC 2024 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 (Cl)	_ 5 ppm	< 5 ppm
Iron (Fe)	_ 5 ppm	< 1 ppm
Heavy Metals	_ 5 ppm	2 ppm
by ICP-OES		
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		

A

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.





PERCENT SOLID

Supervisor: Iwona Analyst: jignesh Date: 6/25/2025

OVENTEMP IN Celsius (°C): 108 Time IN: 17:10 In Date: 06/24/2025 Weight Check 1.0g: 1.00 Weight Check 10g: 10.00 OvenID: M OVEN#1 OVENTEMP OUT Celsius(°C): 103 Time OUT: 08:15 Out Date: 06/25/2025 Weight Check 1.0g: 1.00 Weight Check 10g: 10.00 BalanceID: M SC-4 Thermometer ID: % SOLID- OVEN

QC:LB136243

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
Q2392-01	S-1	1	1.15	10.05	11.2	10.42	92.2	
Q2392-02	S-1A	2	1.18	10.49	11.67	10.97	93.3	
Q2393-01	PARK AVE -1	3	1.17	10.34	11.51	9.78	83.3	
Q2393-02	PARK AVE -1	4	1.15	10.07	11.22	9.4	81.9	
Q2393-03	PARK AVE -2	5	1.13	10.85	11.98	10.19	83.5	
Q2393-04	PARK AVE -2	6	1.19	10.26	11.45	9.55	81.5	
Q2393-05	PARK AVE -3	7	1.12	10.25	11.37	10.00	86.6	
Q2393-06	PARK AVE -3	8	1.15	10.84	11.99	10.5	86.3	
Q2393-07	PARK AVE -4	9	1.16	10.70	11.86	10.54	87.7	
Q2393-08	PARK AVE -4	10	1.19	9.86	11.05	9.84	87.7	
Q2393-09	PARK AVE -5	11	1.15	10.84	11.99	11.05	91.3	
Q2393-10	PARK AVE -5	12	1.15	9.95	11.1	9.95	88.4	
Q2393-11	PARK AVE -6	13	1.19	10.23	11.42	10.07	86.8	
Q2393-12	PARK AVE -6	14	1.17	10.52	11.69	10.4	87.7	
Q2394-01	MH-K/L	15	1.18	10.49	11.67	10.23	86.3	
Q2394-02	MH-K/L EPH	16	1.19	9.97	11.16	9.58	84.2	
Q2394-03	MH-K/L VOC	17	1.13	10.86	11.99	10.66	87.8	
Q2394-04	MH-K/L	18	1.18	10.49	11.67	10.23	86.3	
Q2396-01	245F53-1-1	19	1.00	1.00	2.00	2.00	100.0	pilc
Q2396-02	245F53-1-2	20	1.00	1.00	2.00	2.00	100.0	pilc
Q2396-03	LAW-25-1A	21	1.00	1.00	2.00	2.00	100.0	pilc
Q2396-04	LAW-25-1B	22	1.00	1.00	2.00	2.00	100.0	pilc
Q2396-05	LAW-25-2A	23	1.00	1.00	2.00	2.00	100.0	pilc
Q2396-06	LAW-25-2B	24	1.00	1.00	2.00	2.00	100.0	pilc
Q2396-07	LAW-25-3A	25	1.00	1.00	2.00	2.00	100.0	pilc
Q2396-08	LAW-25-3B	26	1.00	1.00	2.00	2.00	100.0	pilc
Q2398-01	M00-25-0169	27	1.00	1.00	2.00	2.00	100.0	oil sample
Q2398-03	M00-25-0179	28	1.19	10.07	11.26	7.63	64.0	



PERCENT SOLID

Supervisor: Iwona Analyst: jignesh Date: 6/25/2025

OVENTEMP IN Celsius (°C): 108 Time IN: 17:10 In Date: 06/24/2025 Weight Check 1.0g: 1.00 Weight Check 10g: 10.00 OvenID: M OVEN#1

QC:LB136243

OVENTEMP OUT Celsius(°C): 103 Time OUT: 08:15 Out Date: 06/25/2025 Weight Check 1.0g: 1.00 Weight Check 10g: 10.00 BalanceID: M SC-4 Thermometer ID: % SOLID- OVEN

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
Q2398-04	M00-25-0179-E2	29	1.19	10.25	11.44	7.68	63.3	
Q2398-06	ARS20-0036	30	1.19	10.53	11.72	10.47	88.1	
Q2398-07	ARS20-0036-E2	31	1.12	10.77	11.89	10.9	90.8	
Q2399-01	TP-13	32	1.13	10.84	11.97	10.27	84.3	
Q2399-02	TP-13-EPH	33	1.19	10.36	11.55	9.96	84.7	
Q2399-03	TP-13-VOC	34	1.15	10.84	11.99	10.36	85.0	
Q2399-04	TP-13	35	1.13	10.84	11.97	10.27	84.3	
Q2399-05	EP-7	36	1.19	10.47	11.66	10.37	87.7	
Q2399-06	EP-7-EPH	37	1.19	10.47	11.66	10.33	87.3	
Q2399-07	EP-7-VOC	38	1.16	10.57	11.73	10.38	87.2	
Q2399-08	EP-13	39	1.19	10.47	11.66	10.37	87.7	
Q2400-01	B-156-SB01	40	1.17	10.58	11.75	10.11	84.5	
Q2400-02	B-134-SB01	41	1.19	10.00	11.19	9.49	83.0	
Q2403-03	LAW-25-0093	42	1.18	10.24	11.42	10.54	91.4	
Q2403-04	LAW-25-0093-E2	43	1.18	10.14	11.32	10.42	91.1	
Q2403-05	Concrete-062325	44	1.15	10.84	11.99	11.71	97.4	
Q2403-07	ARS 20-006	45	1.19	10.44	11.63	11.13	95.2	
Q2403-08	ARS020-0006-E2	46	1.18	10.64	11.82	11.09	93.1	
Q2405-01	МН-М/Н	47	1.19	10.11	11.3	10.37	90.8	
Q2405-02	MH-M/N-EPH	48	1.19	10.01	11.2	10.15	89.5	
Q2405-03	MH-M/N-VOC	49	1.11	10.71	11.82	10.9	91.4	
Q2406-01	PUMPING-PLANT	50	1.00	1.00	2.00	2.00	100.0	oil sample
Q2409-02	COP-SOIL-PILE	51	1.18	10.58	11.76	11.38	96.4	
Q2410-01	TRE-25-0021	52	1.00	1.00	2.00	2.00	100.0	debris
Q2411-01	TRE-2002	53	1.00	1.00	2.00	2.00	100.0	wipe sample
Q2412-01	TR-05-062425	54	1.18	10.08	11.26	10.94	96.8	
Q2412-02	TR-05-062425-E2	55	1.16	10.28	11.44	11.23	98.0	



Supervisor: Iwona Analyst: jignesh Date: 6/25/2025

OVENTEMP OUT Celsius(°C): 103 Time OUT: 08:15 Out Date: 06/25/2025 Weight Check 1.0g: 1.00 Weight Check 10g: 10.00 BalanceID: M SC-4 Thermometer ID: % SOLID- OVEN

OVENTEMP IN Celsius (°C): 108 Time IN: 17:10 In Date: 06/24/2025 Weight Check 1.0g: 1.00 Weight Check 10g: 10.00 OvenID: M OVEN#1

QC:LB136243

Lab ID Client SampleID	Dish #	Dish Wt(g) (A)	Sample Wt(g)	Sample	Dish+Dry Sample Wt(g)(C)	% Solid	Comments
			(C-A	.) * 100 3-A)			

			WORKLIST(Hard	WORKLIST(Hardcopy Internal Chain)	u)	Chrold WV	She	
WorkList Name :	%1-062425	WorkList ID :	0: 190342	Department : W	Wet-Chemistry	∕ ∵ Dai	Date : 06-24-20	06-24-2025 08:17:18
Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage	Collect Date	Method
Q2396-04	LAW-25-1B	Pileo						
Q2396-05	LAW-25-2A		Percent Solids	Cool 4 deg C	PSEG03	A11	06/23/2025	Chemtech -SO
Q2396-06	LAW-25-2B			Cool 4 deg C	PSEG03	A11	06/23/2025	Chemtech -SO
Q2396-07	LAW-25-3A		Percent Solids	Cool 4 deg C	PSEG03	A11	06/23/2025	Chemtech -SO
Q2396-08	LAW-25-3B		Percent Solids	Cool 4 deg C	PSEG03	A11	06/23/2025	Chemtech -SO
Q2398-01	M00-25-0169		Percent Solids	Cool 4 deg C	PSEG03	A11	06/23/2025	Chemtech -SO
Q2398-03	M00-25-0179		Percent Colids	Cool 4 deg C	PSEG03	A33	06/23/2025	Chemtech -SO
Q2398-04	M00-25-0179-E2		Percent Solids	Cool 4 deg C	PSEG03	A33	06/23/2025	Chemtech -SO
Q2398-06	ARS20-0036		Percent Solids	Cool 4 deg C	PSEG03	A33	06/23/2025	Chemtech -SO
Q2398-07	ARS20-0036-E2			Cool 4 deg C	PSEG03	A33	06/23/2025	Chemtech -SO
Q2399-01				Cool 4 deg C	PSEG03	A33	06/23/2025	Chemtech -SO
Q2399-02	EPH		rercent Solids	Cool 4 deg C	PSEG03	A41	06/23/2025	Chemtech -SO
Q2399-03			Percent Solids	Cool 4 deg C	PSEG03	A41	06/23/2025	Chemtech SO
Q2399-04			Percent Solids	Cool 4 deg C	PSEG03	A41	06/23/2025	Chemtech -SO
Q2399-05		Solid F	Percent Solids	Cool 4 deg C	PSEG03	A41	06/23/2025	Chemtech -SO
Q2399-06	EP-7-EPH			Cool 4 deg C	PSEG03	A41	06/23/2025	Chemtech -SO
Q2399-07			Percent Solids	Cool 4 deg C	PSEG03	A41	06/23/2025	Chemtech -SO
Q2399-08			Percent Solids	Cool 4 deg C	PSEG03	A41	06/23/2025	Chemtech -SO
Q2400-01	SB01		Percent Solids	Cool 4 deg C	PSEG03	A41		Chemtech -SO
Q2400-02	B-134-SB01			Cool 4 deg C	PORT06	A42	06/23/2025	Chemtech -SO
Q2403-03	0		Percent Solids	Cool 4 deg C	PORT06	A42	06/23/2025	Chemtech -SO
Date/Time	(11)			Cool 4 deg C	PSEG03	A32	06/23/2025	Chemtech -SO
Raw Sample Received by:	id by:	1 1			Date/Time	DELALIZS		14120
Raw Sample Relinquished by:	ished by:	1	Page 2 of 3	ŝ	raw Sample Received by: Raw Sample Relinquished	raw sample Received by: - Raw Sample Relinquished by:	Z PE	Stat -
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2					06/23/2025 Chemtech -SO			SIZUZO Chemtech -SO	06/23/2025 Chemtech -SO	06/24/2025 Chamtark and		06/24/2025 Chemtech -SO	06/24/2025 Chemtech _SO		MENT CIELLIECH -SO	06/24/2025 Chemtech -SO	06/24/2025 Chemtech -SO		VOIZ4/ZUZ5 Chemtech -SO	06/24/2025 Chemtech -SO	06/24/2025 Chemtech -SO
CUCIEN O	wall an		Location		A32 06/2	A32 06/2	C/90		A32 06/2	D41 06/2.	DM4		D41 06/2	D41 06/2			D41 06/24	D41 D41		D41 06/24	D41 06/24
Chain)	: Wet-Chemistry	Customer		BRECon	LOEGUS	PSEG03	PSEG03	DOTOO	LSEG03	PSEG03	PSEG03		PSEG03	PSEG03	COPPUS		PSEG03	PSEG03		PSEG05	PSEG05
WORKLIST(Hardcopy Internal Chain)	Department :	Preservative		Cool 4 dea C		Cool 4 deg C	Cool 4 deg C	Cool 4 dea C		COOI 4 deg C	Cool 4 deg C		COOI 4 deg C	Cool 4 deg C	Cool 4 deg C	Cool 4 dec D		Cool 4 deg C	Cool 4 den C		Cool 4 deg C
WORKLIST(H	t ID: 190342	Test		Percent Solids	Parcent Collida		rercent Solids	Percent Solids	Percent Solids		rercent Solids	Percent Solids	Parcent Colido		Percent Solids	Percent Solids	Deroont Calida		Percent Solids	Percent Solide	22
	WorkList ID :	Matrix		Solid	Solid	Colica Colica		Solid	Solid	טאויד	Pipp	Solid	Solid		DIIOS	Solid	Solid		Solid	Solid	
	%1-062425	Customer Sample			Concrete-062325	ARS 20-006	ARS020-0006-E2		H/M-HM	MH-M/N-EPH	MH-MAN VOO		PUMPING-PLANT	COP-SOIL-PILE	TDE DE 0001	1707-52-0021	TRE-2002	TR-05-062425	04	TR-05-062425-E2	
	workList Name :	Sample	Q2403-04	()2403 DE	CO-00+720	Q2403-07	Q2403-08	COMPE OF	10-00-5m	Q2405-02	Q2405-03		Q2406-01	Q2409-02	Q2410-01		Q2411-01	Q2412-01	00110	UZ412-02	

MS Date/Time 26/24/25 151/0 Raw Sample Received by: Raw Sample Relinquished by:

7 8 Date/Time 0624125 Raw Sample Relinquished by: Raw Sample Received by:

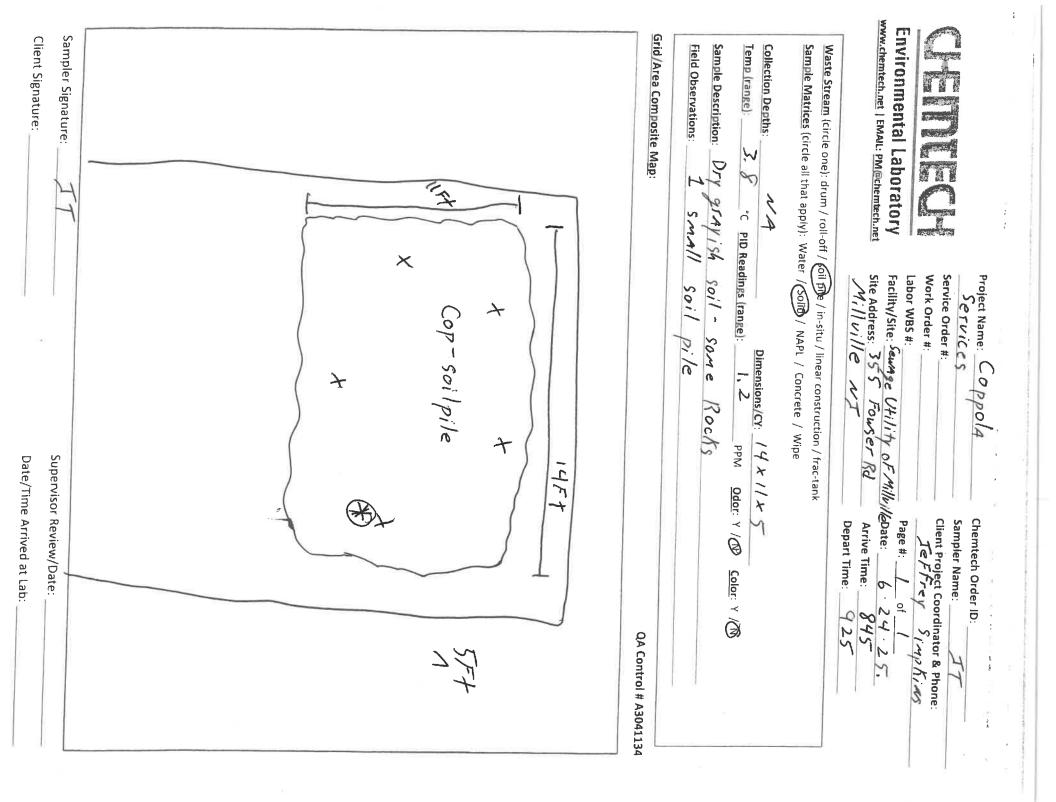
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Page 3 of 3



<u>SHIPPING</u> DOCUMENTS

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		INFORMATION					CLIENT P	ROJECT IN	FORMA	TION						CLIEN	T BILLI	NG INFO	ORMATION	
		Services	3	PROJE	CT.N	IAM	E: Cop	pla S	er	vice	5		BILL T	O:					PO#:	
ADDRESS: 3	355 Fou	iser Rd		PROJEC	CT NC).:		LOCA	TION:				ADDR	ESS:						
CITY Mill	Iville	PROJEC	CT MA	NAG	ER:						CITY					STAT	Έ:	ZIP:		
ATTENTION:	JEFFrey	'S	e-mail:									ATTEN	TION:				PHO	NE:		
PHONE:		PHONE				FA	X: ;								ANA	ALYSIS				
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ALLIANCE		PROJECT		SAM			/PLE	LES	1	C	6	-			-		6	the second se	OMMENTS cify Preservatives	
SAMPLE	SA	SAMPLE MATRIX	COMP	GRAB	DATE	ECTION TIME	# OF BOTTLES	E	2	E	E	E 5	E	E	E	6	A-HCI B-HN03 C-H2SO4	D-NaOH E-ICE F-OTHER		
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Laboratory Certification

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