

DATA REPORTING QUALIFIERS- INORGANIC

For reporting results, the following "Results Qualifiers" are used:

J	Indicates the reported value was obtained from a reading that was less than the Contract Required Detection Limit (CRDL), but greater than or equal to the Instrument Detection Limit (IDL).
U	Indicates the analyte was analyzed for, but not detected.
ND	Indicates the analyte was analyzed for, but not detected
E	Indicates the reported value is estimated because of the presence of interference
M	Indicates Duplicate injection precision not met.
N	Indicates the spiked sample recovery is not within control limits.
S	Indicates the reported value was determined by the Method of Standard Addition (MSA).
*	Indicates that the duplicate analysis is not within control limits.
+	Indicates the correlation coefficient for the MSA is less than 0.995.
D	Indicates the reported value is from a secondary analysis with a dilution factor. The original analysis exceeded the calibration range.
M	Method qualifiers "P" for ICP instrument "PM" for ICP when Microwave Digestion is used "CV" for Manual Cold Vapor AA "AV" for automated Cold Vapor AA "CA" for MIDI-Distillation Spectrophotometric "AS" for Semi – Automated Spectrophotometric "C" for Manual Spectrophotometric "T" for Titrimetric "NR" for analyte not required to be analyzed 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: Q1689

Client: METEM A GE POWER Business

Contact: Sundas Pervez

OrderDate: 4/1/2025 12:11:00 PM

Project: Parsippany Wastewater Quarterly 2025

Location: F11

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q1689-01	Q2 WASTEWATER	WATER			04/01/25			04/01/25
					11:35			
			Cyanide	SM4500-CN		04/04/25	04/04/25	
				C,E			12:04	
			Field pH	SM4500-H B			04/01/25	
							11.37	



SAMPLE DATA



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

Fax: 908 789 8922

Report of Analysis

Client: METEM A GE POWER Business Date Collected: 04/01/25 11:35

Project: Parsippany Wastewater Quarterly 2025 Date Received: 04/01/25

Client Sample ID: Q2 WASTEWATER SDG No.: Q1689

Lab Sample ID: Q1689-01 Matrix: WATER

% Solid: 0

Parameter	Conc. Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Cyanide	0.0012 U	1	0.0012	0.0050	mg/L	04/04/25 08:00	04/04/25 12:04	
Field pH	7.69	1	0	0	рН		04/01/25 11:37	C-16 plus E-16 SM4500-H B

Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

D = Dilution

Q = indicates LCS control criteria did not meet requirements

H = Sample Analysis Out Of Hold Time

J = Estimated Value

B = Analyte Found in Associated Method Blank

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

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

OR = Over Range

N =Spiked sample recovery not within control limits



QC RESULT SUMMARY



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

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Initial and Continuing Calibration Verification

Client: METEM A GE POWER Business SDG No.: Q1689

Project: Parsippany Wastewater Quarterly 2025 RunNo.: LB135309

Analyte		Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID: Cyanide	ICV1	mg/L	0.094	0.099	95	85-115	04/04/2025
Sample ID: Cyanide	CCV1	mg/L	0.24	0.25	96	90-110	04/04/2025
Sample ID: Cyanide	CCV2	mg/L	0.25	0.25	100	90-110	04/04/2025





Initial and Continuing Calibration Verification

Client: METEM A GE POWER Business SDG No.: Q1689

Project: Parsippany Wastewater Quarterly 2025 RunNo.: LB135317

Analyte		Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID:	ICV						
Field pH		рН	7.0	7	100	90-110	04/01/2025
Sample ID:	CCV1						
Field pH		рН	7.0	7.0	100	90-110	04/01/2025
Sample ID:	CCV2						
Field pH		рН	7.0	7.0	100	90-110	04/01/2025





Initial and Continuing Calibration Verification

Client: METEM A GE POWER Business SDG No.: Q1689

Project: Parsippany Wastewater Quarterly 2025 **RunNo.:** LB135317





Initial and Continuing Calibration Blank Summary

Client: METEM A GE POWER Business SDG No.: Q1689

Project: Parsippany Wastewater Quarterly 2025 RunNo.: LB135309

Analyte		Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID: Cyanide	ICB1	mg/L	< 0.0025	0.0025	U	0.0012	0.005	04/04/2025
Sample ID: Cyanide	CCB1	mg/L	< 0.0025	0.0025	U	0.0012	0.005	04/04/2025
Sample ID: Cyanide	CCB2	mg/L	< 0.0025	0.0025	U	0.0012	0.005	04/04/2025



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Initial and Continuing Calibration Blank Summary

Client: METEM A GE POWER Business SDG No.: Q1689

Project: Parsippany Wastewater Quarterly 2025 RunNo.: LB135309





Preparation Blank Summary

Client: METEM A GE POWER Business SDG No.: Q1689

Project: Parsippany Wastewater Quarterly 2025

Analyte	Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID: Cyanide	PB167464BL mg/L	< 0.0025	0.0025	U	0.0012	0.005	04/04/2025



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Matrix Spike Summary

Client: METEM A GE POWER Business SDG No.: Q1689

Project: Parsippany Wastewater Quarterly 2025 **Sample ID:** Q1689-01

Client ID: Q2 WASTEWATERMS Percent Solids for Spike Sample: 0

		Acceptance	Spiked	Conc.	Sample	Conc.	Spike	Dilution	%		Analysis
Analyte	Units	Limit %R	Result	Qualifier	Result	Qualifier	Added	Factor	Rec	Qual	Date
Cyanide	mg/L	75-125	0.039		0.0012	U	0.04	1	98		04/04/2025



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Matrix Spike Summary

Client: METEM A GE POWER Business SDG No.: Q1689

Project: Parsippany Wastewater Quarterly 2025 **Sample ID:** Q1689-01

Client ID: Q2 WASTEWATERMSD Percent Solids for Spike Sample: 0

		Acceptance	Spiked	Conc.	Sample	Conc.	Spike	Dilution	%		Analysis
Analyte	Units	Limit %R	Result	Qualifier	Result	Qualifier	Added	Factor	Rec	Qual	Date
Cyanide	mg/L	75-125	0.039		0.0012	U	0.04	1	98		04/04/2025



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Duplicate Sample Summary

Client: METEM A GE POWER Business SDG No.: Q1689

Project: Parsippany Wastewater Quarterly 2025 **Sample ID:** Q1689-01

Client ID: Q2 WASTEWATERDUP Percent Solids for Spike Sample: 0

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/ AD	Qual	Analysis Date
Cyanide	mg/L	+/-20	0.0012	U	0.0012	U	1	0		04/04/2025
Field pH	pН	+/-20	7.69		7.70		1	0.13		04/01/2025



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Duplicate Sample Summary

Client: METEM A GE POWER Business SDG No.: Q1689

Project: Parsippany Wastewater Quarterly 2025 **Sample ID:** Q1689-01

Client ID: Q2 WASTEWATERMSD Percent Solids for Spike Sample: 0

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/ AD	Qual	Analysis Date
Cvanide	mg/L	+/-20	0.039		0.039		1	0		04/04/2025





Laboratory Control Sample Summary

Client: METEM A GE POWER Business SDG No.: Q1689

Project: Parsippany Wastewater Quarterly 2025 Run No.: LB135309

Analyte		Units	True Value	Con Result Qua	c. % lifier Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID	PB167464BS							
Cyanide		mg/L	0.1	0.094	94	1	85-115	04/04/2025



RAW DATA

Test results

Aquakem 7.2AQ1

Page:

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

Reviewed by : NF Instrument ID : Konelab

4/4/2025 12:16

Test: Total CN

Sample Id	Result	Dil. 1 +	Response	Errors
ICV1 ICB1 CCV1 CCB1 RL CHECK PB167464BL PB167464BS MIDPB167464 Q1689-01 Q1689-01DUP Q1689-01MS Q1689-01MSD CCV2 CCB2	94.061 0.072 244.106 0.496 5.336 0.469 94.382 240.935 1.066 0.904 38.616 38.628 246.095 0.258	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.073 0.000 0.189 0.000 0.004 0.000 0.073 0.187 0.001 0.001 0.030 0.030 0.191 0.000	106 7. (50-150) NF 96 7. (90-110)

N	14
Mean	71.816
SD	98.7477
CV%	137.50

Aquakem v. 7.2AQ1 Results from time period: Fri Apr 04 09:27:18 2025 Fri Apr 04 12:10:53 2025

Sample Id	Sam/0	Ctr/c/ Test short r	Test type	Result R	Result unit Result date and time Stat
0.0PPBCN	Α	Total CN	Р	0.1799 μ	
5.0PPBCN	Α	Total CN	Р	5.4701 μ	
10PPBCN	Α	Total CN	Р	10.2111 μ	
50PPBCN	Α	Total CN	Р	49.8763 μ	g/l 4/4/2025 10:29:32
100PPBCN	Α	Total CN	Р	98.7893 μ	
250PPBCN	Α	Total CN	Р	250.4552 μ	g/l 4/4/2025 10:29:34
500PPBCN	Α	Total CN	Р	500.0179 μ ₁	
ICV1	S	Total CN	Р	94.0606 µį	g/l 4/4/2025 11:56:41
ICB1	S	Total CN	Р	0.0715 µչ	g/l 4/4/2025 11:56:43
CCV1	S	Total CN	Р	244.1058 µք	g/l 4/4/2025 11:56:45
CCB1	S	Total CN	Р	0.4964 με	g/l 4/4/2025 11:56:47
RL CHECK	S	Total CN	Р	5.3356 µg	g/l 4/4/2025 11:56:49
PB167464BL	S	Total CN	P	0.4686 µg	g/l 4/4/2025 11:56:50
PB167464BS	S	Total CN I	P	94.3819 µg	g/l 4/4/2025 12:04:07
MIDPB167464	S	Total CN	P	240.9354 µg	t/l 4/4/2025 12:04:09
Q1689-01	S	Total CN F)	1.0655 µg	/l 4/4/2025 12:04:12
Q1689-01DUP	S	Total CN F	•	0.904 μg	/l 4/4/2025 12:04:13
Q1689-01MS	S	Total CN F	•	38.6156 µg	/l 4/4/2025 12:10:48
Q1689-01MSD	S	Total CN F		38.6277 μg	/l 4/4/2025 12:10:50
CCV2	S	Total CN F		246.0948 µg	
CCB2	S	Total CN F	•	0.2582 μg	/l 4/4/2025 12:10:52

Calibration results

_____ Aquakem 7.2AQ1

Page:

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284 Sheffield Street, Mountainside, NJ 07092

Reviewed by : NF Instrument ID : Konelab

4/4/2025 10:33

Test Total CN

Accepted

4/4/2025 10:33

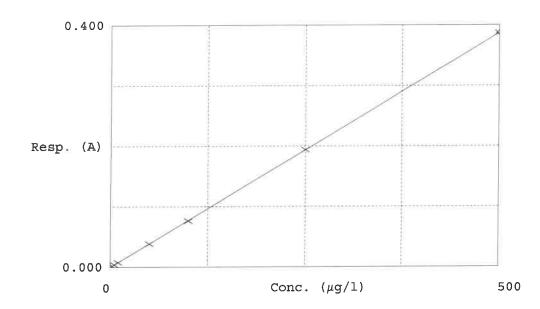
Factor

1292

Bias

Coeff. of det. 0.999990

Errors



	Calibrator	Response	Calc. con.	Conc.	Re Errors	
1 2 3 4	0.0PPBCN 5.0PPBCN 10PPBCN 50PPBCN	0.000 0.004 0.008 0.039	0.1799 5.4701 10.2111 49.8763	0.0000 5.0000 10.0000 50.0000	9.4	NF
5 6 7	100PPBCN 250PPBCN 500PPBCN	0.076 0.194 0.387	98.7893 250.4552 500.0179	100.0000 250.0000 500.0000	0.2	04.04.2025





SOP ID: MSM4500-CN C,E-Cyanide-12

SDG No : N/A Start Digest Date: 04/04/2025 Time : 08:00 Temp : 124 °C

Pippete ID : WC

Balance ID: N/A

Hood ID: HOOD#1 Digestion tube ID: M5595 Block Thermometer ID: WC CYANIDE

Block ID: MC-1, MC-2 Filter paper ID: N/A Prep Technician Signature:

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

Standared Name	MLS USED	STD REF. # FROM LOG
LCSW	1ML	WP111296
MS/MSD SPIKE SOL.	0.40ML	WP111295
PBW	50ML	W3112
RL CHECK	50ML	WP112602
N/A	N/A	N/A

Chemical Used	ML/SAMPLE USED	Lot Number
0.25N NaOH	FOM	
50% v/v H2SO4	50ML	WP111294
	5ML	WP110391
51% w/v MgCL2	2ML	WP110390
pH Paper 0-14	N/A	
Nitrate/Nitrite Strip		W3140
Lead Acetate strip	N/A	W3101
	N/A	W3134
CI-starch paper	N/A	W3155
0.4N Sulfamic Acid	5ML	
V/A		WP110388
N/A	N/A	N/A
VO	N/A	N/A

LAB SAMPLE ID	CLIENT SAMPLE ID	Wt(g)/Vol(ml)	Comment
S0	S0	N/A	N/A
S5.0	S5.0	N/A	N/A
S10.0	S10.0	N/A	N/A
5100.0	S100.0	N/A	N/A
S250.0	S250.0	N/A	N/A
S500.0	S500.0	N/A	N/A
ICV	ICV	0.5ML	W3012
ICB	ICB	N/A	
CCV	CCV	N/A	N/A
ССВ	ССВ	N/A	N/A
Midrange	Midrange	2.5ML	N/A
HIGHSTD	HIGHSTD	N/A	WP111295
.OWSTD	LOWSTD	N/A	N/A N/A

Extraction Conformance/Non-Conformance Comments:

N/A

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location	
.04.2025,09:45	16 (asc,	NPINC	
	Preparation Group	Analysis Group	



Lab Sample ID	Client Sample ID	Initial Vol (ml)	Final Vol (ml)	рН	Sulfide	Oxidizing	Nitrate/ Nitrite	Comment	Pre
PB167464BL	PBW464	50	50	>12	Negative	Negative	Negative	N/A	N/A
PB167464BS	LCS464	50	50	>12	Negative	Negative	Negative	N/A	
Q1689-01DUP	Q2 WASTEWATERDUP	50	50	>12	Negative	Negative	Positive	N/A	N/A
Q1689-01MS	Q2 WASTEWATERMS	50	50	>12	Negative	Negative			N/A
(1689-01MSD	Q2 WASTEWATERMSD	50	50	. 12			Positive	N/A	N/A
1689-01	Q2 WASTEWATER			>12	Negative	Negative	Positive	N/A	N/A
	- WILLIAMER	50	50	>12	Negative	Negative	Positive	N/A	N/A



Instrument ID: K

KONELAB

Daily Analysis Runlog For Sequence/QCBatch ID # LB135309

Review By	rub	pina	Review On	4/4/2025 2:26:10 PM		
Supervise By	lwc	ona	Supervise On	4/4/2025 2:26:26 PM		
SubDirectory	LB	135309	Test	Cyanide		
STD. NAME	E STD REF.#					
ICAL Standard		WP112597,WP112598,WP112599,WP112600,WP112601,WP112602,WP112603				
ICV Standard		W3012				
CCV Standard		WP112598				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		WP111296				
Chk Standard		WP111035,WP110103,WP112604				

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	0.0PPBCN	0.0PPBCN	CAL1	04/04/25 10:29		Niha	ОК
2	5.0PPBCN	5.0PPBCN	CAL2	04/04/25 10:29		Niha	ОК
3	10PPBCN	10PPBCN	CAL3	04/04/25 10:29		Niha	ОК
4	50PPBCN	50PPBCN	CAL4	04/04/25 10:29		Niha	ОК
5	100PPBCN	100PPBCN	CAL5	04/04/25 10:29		Niha	ОК
6	250PPBCN	250PPBCN	CAL6	04/04/25 10:29		Niha	ОК
7	500PPBCN	500PPBCN	CAL7	04/04/25 10:29		Niha	ОК
8	ICV1	ICV1	ICV	04/04/25 11:56		Niha	ОК
9	ICB1	ICB1	ICB	04/04/25 11:56		Niha	ОК
10	CCV1	CCV1	CCV	04/04/25 11:56		Niha	ОК
11	CCB1	CCB1	ССВ	04/04/25 11:56		Niha	ОК
12	RL	RL	SAM	04/04/25 11:56		Niha	ОК
13	PB167464BL	PB167464BL	MB	04/04/25 11:56		Niha	ОК
14	PB167464BS	PB167464BS	LCS	04/04/25 12:04		Niha	ОК
15	MIDPB167464	MIDPB167464	SAM	04/04/25 12:04		Niha	ОК
16	Q1689-01	Q2 WASTEWATER	SAM	04/04/25 12:04		Niha	ОК
17	Q1689-01DUP	Q2 WASTEWATERDU	DUP	04/04/25 12:04		Niha	ОК
18	Q1689-01MS	Q2 WASTEWATERMS	MS	04/04/25 12:10		Niha	ОК





Instrument ID: KONELAB

Daily Analysis Runlog For Sequence/QCBatch ID # LB135309

Review By	rub	ina	Review On	4/4/2025 2:26:10 PM		
Supervise By	lwo	ona	Supervise On	4/4/2025 2:26:26 PM		
SubDirectory	LB	135309	Test	Cyanide		
STD. NAME	NAME STD REF.#					
ICAL Standard		WP112597,WP112598,WP112599,WP112600,WP112601,WP112602,WP112603				
ICV Standard		W3012				
CCV Standard		WP112598				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		WP111296				
Chk Standard		WP111035,WP110103,WP112604				

19	Q1689-01MSD	Q2 WASTEWATERMS	MSD	04/04/25 12:10	Niha	ок
20	CCV2	CCV2	CCV	04/04/25 12:10	Niha	ок
21	CCB2	CCB2	ССВ	04/04/25 12:10	Niha	ОК



Instrument ID: WC PH METER-1

Daily Analysis Runlog For Sequence/QCBatch ID # LB135317

Review By	Baldev	Review On	4/4/2025 11:41:48 PM
Supervise By	JSathvara	Supervise On	4/4/2025 11:45:32 PM
SubDirectory	LB135317	Test	Field pH
STD. NAME	STD REF.#		
ICAL Standard	N/A		
ICV Standard	N/A		
CCV Standard	N/A		
ICSA Standard	N/A		
CRI Standard	N/A		
LCS Standard	N/A		
Chk Standard	W3071,W3107,	W3094,W3093,W3071,W3071	

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	CAL1	CAL1	CAL	04/01/25 10:54		gorge	ок
2	CAL2	CAL2	CAL	04/01/25 10:56		gorge	ОК
3	CAL3	CAL3	CAL	04/01/25 10:58		gorge	ОК
4	ICV	ICV	ICV	04/01/25 11:00		gorge	ОК
5	CCV1	CCV1	CCV	04/01/25 11:32		gorge	ок
6	Q1689-01	Q2 WASTEWATER	SAM	04/01/25 11:37		gorge	ОК
7	Q1689-01DUP	Q2 WASTEWATERDU	DUP	04/01/25 11:40		gorge	ОК
8	CCV2	CCV2	CCV	04/01/25 11:44		gorge	ок



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

8900, Fax: 908 789 8922

Prep Standard - Chemical Standard Summary

Ord	ler ID	:	Q1689

Test: Cyanide, Field pH

Prepbatch ID: PB167464,

Sequence ID/Qc Batch ID: LB135309,LB135317,

Sta		١.			_	
SIA	mo	ы	ra	- 11	u	-

WP110103,WP110390,WP110391,WP111035,WP111294,WP111295,WP111296,WP112596,WP112597,WP112598,WP112599,WP112600,WP112601,WP112602,WP112603,WP112604,

Chemical ID:

M5673,M6121,W2668,W2882,W3001,W3012,W3019,W3071,W3093,W3094,W3101,W3107,W3112,W3113,W3138,W3139,W3140,W3154,





Wet Chemistry STANDARD PREPARATION LOG

Recipe ID	NAME	<u>NO.</u>	Prep Date	Expiration Date	Prepared By	<u>ScaleID</u>	<u>PipetteID</u>	Supervised By Iwona Zarych
539	CN BUFFER	WP110103	10/08/2024	04/08/2025	Rubina Mughal	WETCHEM_S	None	= ,
						CALE_5 (WC		10/08/2024
EDOM	139 00000gram of W2669 ± 862 000	00ml of W3	112 = Einal O	wantity: 1000 (100 ml	SC-5)		

<u>FROM</u>	138.00000gram of W2668 +	862.00000ml of W3112	= Final Quantity: 1000.000 ml

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

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



Alliance TECHNICAL GROUP

Fax: 908 789 8922

Wet Chemistry STANDARD PREPARATION LOG

1714 Sulfuric Acid, 50% (v/v) WP110391 10/24/2024 04/24/2025 Niha Farheen None Nor	Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	<u>ScaleID</u>	<u>PipetteID</u>	Supervised By Iwona Zarych
Shaik Shaik	1714	Sulfuric Acid, 50% (v/v)	WP110391	10/24/2024	04/24/2025		None	None	10/24/2024

Recipe				Expiration	<u>Prepared</u>			Supervised By
<u>ID</u>	<u>NAME</u>	NO.	Prep Date	<u>Date</u>	<u>By</u>	<u>ScaleID</u>	<u>PipetteID</u>	lwona Zarych
607	PYRIDINE-BARBITURIC ACID	WP111035	12/09/2024	04/30/2025	Niha Farheen	WETCHEM_S	Glass	
					Shaik	CALE_5 (WC	Pipette-A	12/10/2024

FROM 145.00000ml of W3112 + 15.00000gram of W2882 + 15.00000ml of M6121 + 75.00000ml of W3019 = Final Quantity: 250.000



Aliance TECHNICAL GROUP

Fax: 908 789 8922

Wet Chemistry STANDARD PREPARATION LOG

Recipe ID	NAME_	NO.	Prep Date	Expiration Date	Prepared By	<u>ScaleID</u>	<u>PipetteID</u>	Supervised By Iwona Zarych
11	Sodium hydroxide absorbing solution 0.25 N	<u>WP111294</u>	01/07/2025	07/07/2025	Niha Farheen Shaik	WETCHEM_S CALE_5 (WC		01/07/2025
					_	SC-5)		

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

Recipe ID	NAME	<u>NO.</u>	Prep Date	Expiration Date	Prepared By	<u>ScaleID</u>	<u>PipettelD</u>	Supervised By Iwona Zarvch
3850	Cyanide MS-MSD spiking solution, 5PPM	<u>WP111295</u>	01/07/2025	07/07/2025	Niha Farheen Shaik	None	WETCHEM_F IPETTE_3 (WC)	01/07/2025

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



Wet Chemistry STANDARD PREPARATION LOG

Recipe ID	<u>NAME</u>	NO.	Prep Date	Expiration Date	Prepared By	<u>ScaleID</u>	<u>PipettelD</u>	Supervised By Iwona Zarych
3371	Cyanide LCS Spike Solution, 5PPM	<u>WP111296</u>	01/07/2025	07/07/2025	Niha Farheen Shaik	None	WETCHEM_F IPETTE_3	01/07/2025
FROM	1.00000ml of W3138 + 199.00000ml	of WP11129	94 = Final Qu	antity: 200.000) ml		(WC)	

<u>ROM</u>	1.00000ml of	f W3138 + 19	99.00000ml c	of WP111294	= Final Quantity	<i>'</i> : 200.000	ml

Recipe ID	NAME	<u>NO.</u>	Prep Date	Expiration Date	Prepared By	<u>ScaleID</u>	<u>PipetteID</u>	Supervised By Iwona Zarych
3456	Cyanide Intermediate Working Std, 5PPM	<u>WP112596</u>	04/04/2025	04/05/2025	Niha Farheen Shaik	None	WETCHEM_F IPETTE_3 (WC)	,

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



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Wet Chemistry STANDARD PREPARATION LOG

I ID NAME NO Duam Data Data				Supervised By
ID NAME NO. Prep Date Date	<u>By</u>	<u>ScaleID</u>	<u>PipetteID</u>	Iwona Zarych
4 Calibation standard 500 ppb <u>WP112597</u> 04/04/2025 04/05/2025	Niha Farheen	None	Glass	
	Shaik		Pipette-A	04/04/2025

FROM	45.00000ml of WP111294 + 5.00000ml of WP112596 = Final Quantity: 50.000 ml
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Recipe ID	NAME	<u>NO.</u>	Prep Date	Expiration Date	Prepared By	<u>ScaleID</u>	<u>PipetteID</u>	Supervised By Iwona Zarych
3761	Calibration-CCV CN Standard 250 ppb	<u>WP112598</u>	04/04/2025	04/05/2025	Niha Farheen Shaik	None	Glass Pipette-A	04/04/2025

FROM 2.50000ml of WP112596 + 47.50000ml of WP111294 = Final Quantity: 50.000 ml



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Wet Chemistry STANDARD PREPARATION LOG

Recipe				Expiration	<u>Prepared</u>			Supervised By
<u>ID</u>	NAME	<u>NO.</u>	Prep Date	<u>Date</u>	<u>By</u>	<u>ScaleID</u>	<u>PipetteID</u>	Iwona Zarych
6	Calibration Standard 100 ppb	WP112599	04/04/2025	04/05/2025	Niha Farheen Shaik	None	WETCHEM_F IPETTE_3	04/04/2025
FROM	1.00000ml of WP112596 + 49.00000	ml of WP11	1294 = Final	Quantity: 50.00	0 ml		(VVC)	

Recipe				Expiration	<u>Prepared</u>			Supervised By
<u>ID</u>	NAME	<u>NO.</u>	Prep Date	<u>Date</u>	<u>By</u>	<u>ScaleID</u>	<u>PipetteID</u>	Iwona Zarych
7	Calibration Standard 50 ppb	WP112600	04/04/2025	04/05/2025	Niha Farheen	None	WETCHEM_F	
					Shaik		IPETTE_3	04/04/2025
							(VVC)	

FROM 0.50000ml of WP112596 + 49.50000ml of WP111294 = Final Quantity: 50.000 ml



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Wet Chemistry STANDARD PREPARATION LOG

Recipe				Expiration	<u>Prepared</u>			Supervised By
<u>ID</u>	NAME	<u>NO.</u>	Prep Date	<u>Date</u>	<u>By</u>	<u>ScaleID</u>	<u>PipetteID</u>	Iwona Zarych
8	Calibration Standard 10 ppb	WP112601	04/04/2025	04/05/2025	Niha Farheen Shaik	None	WETCHEM_F IPETTE_3	04/04/2025
FROM	1.00000ml of WP112597 + 49.00000	ml of WP11	1294 = Final	Quantity: 50.00	0 ml		(VVC)	

Recipe				Expiration	Prepared		-	Supervised By
<u>ID</u>	NAME	NO.	Prep Date	<u>Date</u>	<u>By</u>	<u>ScaleID</u>	<u>PipetteID</u>	Iwona Zarych
9	Calibration Standard 5 ppb	WP112602	04/04/2025	04/05/2025	Niha Farheen	None	WETCHEM_F	
					Shaik		IPETTE_3	04/04/2025
							(WC)	

FROM 0.50000ml of WP112597 + 49.50000ml of WP111294 = Final Quantity: 50.000 ml



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Wet Chemistry STANDARD PREPARATION LOG

Recipe ID	NAME	<u>NO.</u>	Prep Date	Expiration Date	Prepared By	<u>ScaleID</u>	<u>PipetteID</u>	Supervised By Iwona Zarych
167	0 ppb CN calibration std	WP112603	04/04/2025	04/05/2025	Niha Farheen	None	None	
					Shaik			04/04/2025

FROM 50.0	0000ml of WP111294	= Final Qua	ntity: 50.000	ml
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Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1582	Chloramine T solution, 0.014M		04/04/2025	04/05/2025		WETCHEM_S		Iwona Zarych
					Shaik	CALE_5 (WC		04/04/2025

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



CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9673-33 / Sulfuric Acid, Instra-Analyzed (cs/6c2.5L)	23D2462010	03/20/2028	09/21/2023 / mohan	09/05/2023 / mohan	M5673
Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9530-33 / Hydrochloric Acid, Instra-Analyzed (cs/6x2.5L)	0000275677	05/13/2025	11/13/2024 / Eman	10/13/2024 / Eman	M6121
Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
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	EM-BX0035-3 / Barbituric	1.00132.0100	04/30/2025	12/07/2021 /	11/30/2021 /	14/0000
Supply, Inc.	Acid, 100 gms		0 000,2020		apatel	W2882
		Lot #	Expiration Date	Date Opened / Opened By	apatel Received Date / Received By	Chemtech
Supply, Inc.	Acid, 100 gms	Lot # 002251-03319	Expiration	Date Opened /	Received Date /	Chemtech
Supplier PCI Scientific	ItemCode / ItemName 01237-10KG / Megnasium Chloride Hexahydrate ACS		Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #



CHEMICAL RECEIPT LOG BOOK

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
Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date /	Chemtech Lot #
PCI Scientific Supply, Inc.	1601-1 / PH 10.01 BUFFER,COLOR CD 475ML	4310g83	03/31/2025	04/03/2024 / jignesh	04/02/2024 / jignesh	W3094
Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date /	Chemtech Lot #
PCI Scientific Supply, Inc.	470112-662 / TEST STRIPES, NITRATE/NITRITE, PK50	402403	04/30/2026	05/02/2024 / Iwona	04/10/2024 / Iwona	W3101
Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	AL14055-3 / PH 4 BUFFER SOLUTION	AL14055-3	02/27/2026	09/05/2024 / jignesh	05/13/2024 / jignesh	W3107



CHEMICAL RECEIPT LOG BOOK

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 / lwona	07/08/2024 / Iwona	W3113
Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	LC135457 / Cyanide Standard, 1000 PPM, Second Source	44080060	01/30/2025	09/06/2024 / Iwona	08/28/2024 / Iwona	W3138
Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	JTE494-6 / CHLORAMINE-T BAKER 250GM	10239484	09/09/2029	09/09/2024 / Iwona	09/09/2024 / Iwona	W3139
Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date /	Chemtech Lot #
PCI Scientific Supply, Inc.	140444 / TEST PAPERS,PH 0-14,.5 SENSI,100PK	10D0142	09/17/2029	09/17/2024 / Iwona	09/17/2024 / Iwona	W3140
Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	RC2543-4 / CYANIDE STD 1000PPM 4OZ	1411J58	05/31/2025	12/02/2024 / Iwona	12/02/2024 / Iwona	W3154



RICCA CHEMICAL COMPANY®

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1490 Lammers Pike Batesville, IN 47006 http://www.riccachemical.com

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

Certificate of Analysis

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 .

5 10 15 20 25 35 40 45 Hq 7.12 7.09 7.06 7.04 7.027.00 6.99 6.98 6.98 6.97 6.97

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

	The state of the s			
Test	Specification	Result		
Appearance	Yellow liquid	Passed	*Not a certified value	
Test	Certified Value	Uncertainty	NIST SRM#	
pH at 25°C (Method: SQCP027, SQCP033)	7.002	0.02	186-I-g, 186-II-g, 191d	

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

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

Part Number	Size / Package Type	Shelf Life (Unopened Container)
1551-2.5	10 L Cubitainer®	24 months
1551-5	20 L Cubitainer®	24 months
Possesses de J. Character 1500	***************************************	24 months

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

Youl Drandon

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.

Version: 1.3 Lot Number: 4308H30 Product Number: 1551 Page 2 of 2

Chem-Impex International, Inc. 06/06/27

Tel: (630) 766-2112

E-mail: sales@chemimpex.com Shipping and Correspondence:

935 Dillon Drive

Wood Dale, IL 60191

Fax: (630) 766-2218

Web site: www.chemimpex.com

Manufacturing site:

825 Dillon Drive

Wood Dale, IL 60191

Certificate of Analysis

Catalogue Number

01237

Product

Magnesium chloride hexahydrate

Lot Number

002251-03319

Magnesium chloride•6H2O

CAS Number

7791-18-6

Molecular Formula

MgCl₂•6H₂O

Molecular Weight

203.3

Appearance

Colorless crystals, very deliquescent

Heavy Metals

< 5 ppm

Anion

Nitrate: < 0.001% Phosphate : < 5 ppm Sulfate: < 0.002%

Cation

Ammonium: < 0.002% Barium : < 0.005% Calcium: 0.0006% Iron: < 5 ppm Manganese: 1.8 ppm Potassium: 0.0006% Sodium: 0.0008% Strontium: 0.0015%

Insoluble material

0.0025%

Assay by titration

100.29%

Grade

ACS reagent

Storage

Store at RT

Country of Origin

India

Certificate of Analysis

Catalog Number: 01237

Lot Number: 002251-03319

Remarks

See material safety data sheet for additional information

For laboratory use only

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

Bala Kumar

Quality Control Manager

W3019 lec 4/3/23

3050 Spruce Street, Saint Louis, MO 63103, USA

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

Product Name:

Certificate of Analysis

Pyridine - anhydrous, 99.8%

Product Number:

270970

Batch Number:

SHBQ2113

Brand:

SIAL

CAS Number:

110-86-1

MDL Number:

MFCD00011732

Formula:

C5H5N

Formula Weight:

79.10 g/mol

Quality Release Date:

15 DEC 2022

L	
	N

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

Larry Coers, Director Quality Control

Sheboygan Falls, WI US

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





QUALITY ASSURANCE TECHNICAL SUPPORT LABORATORY "An ISO 9001:2015 Certified Program"

R: 02/20

APTIM

Instructions for QATS Reference Material: Inorganic ICV Solutions

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

W3DII W3012

ICV5-0415

For the cold vapor analysis of mercury by AA: dilute the ICV5 concentrate 100-fold with 2% (v/v) nitric acid; pipet 1 mL of the concentrate into a 100 mL volumetric flask and dilute to volume with 2% (v/v) nitric acid. The ICV5 concentrate is prepared in 0.05% (w/v) K₂Cr₂O₇ and 5% (v/v) nitric acid. W3015

W3013 W 3014

ICV6-0400

For the analysis of cyanide: dilute the ICV6 concentrate 100-fold with Type II water; pipet 1 mL of the concentrate into a 100 mL volumetric flask and dilute to volume with Type II water. Distill this solution along with the samples before analysis. The cyanide concentrate is prepared from K₃Fe(CN)₆, Type II water, and 0.1 % sodium hydroxide, and will decompose rapidly if exposed to light.

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

CERTIFIED CONCENTRATIONS OF QATS ICV1, ICV5, AND ICV6 SOLUTIONS

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

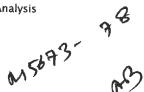
ICV5-0415		ICV6-0400	
Element	Concentration (µg/L) (after-100-fold dilution)	Analyte	Concentration (µg/L) (after 100-fold dilution)
Hg	4.0	CN ⁻	99

Sulfuric Acid BAKER INSTRA-ANALYZED® Reagent

For Trace Metal Analysis

Low Selenium









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

Manufactured Date: 2023-03-22

Retest Date: 2028-03-20 Revision No.: 0

Certificate of Analysis

Test	Specification	Result	_
ACS – Assay (H ₂ SO ₄)	95.0 - 98.0 %	96.1 %	_
Appearance	Passes Test	Passes Test	
ACS – Color (APHA)	≤ 10	5	
ACS – Residue after Ignition	≤ 3 ppm	< 1 ppm	
ACS - Substances Reducing Permanganate (as SO2)	≤ 2 ppm	< 2 ppm	
Ammonium (NH ₄)	≤ 1 ppm	1 ppm	
Chloride (Cl)	≤ 0.1 ppm	< 0.1 ppm	
Nitrate (NO ₃)	≤ 0.2 ppm	< 0.1 ppm	
Phosphate (PO ₄)	≤ 0.5 ppm	< 0.1 ppm	
Trace Impurities - Aluminum (AI)	≤ 30.0 ppb	< 5.0 ppb	
Arsenic and Antimony (as As)	≤ 4.0 ppb	< 2.0 ppb	
Trace Impurities - Boron (B)	≤ 10.0 ppb	8.5 ppb	
Trace Impurities – Cadmium (Cd)	≤ 2.0 ppb	< 0.3 ppb	
Trace Impurities – Chromium (Cr)	≤ 6.0 ppb	< 0.4 ppb	
Trace Impurities - Cobalt (Co)	≤ 0.5 ppb	< 0.3 ppb	
Trace Impurities – Copper (Cu)	≤ 1.0 ppb	< 0.1 ppb	
Trace Impurities – Gold (Au)	≤ 10.0 ppb	0.5 ppb	
Heavy Metals (as Pb)	≤ 500.0 ppb	< 100.0 ppb	
Trace Impurities - Iron (Fe)	≤ 50.0 ppb	1.3 ppb	
Trace Impurities - Lead (Pb)	≤ 0.5 ppb	< 0.5 ppb	
Trace Impurities – Magnesium (Mg)	≤ 7.0 ppb	0.8 ppb	
Trace Impurities – Manganese (Mn)	≤ 1.0 ppb	< 0.4 ppb	
Trace Impurities - Mercury (Hg)	≤ 0.5 ppb	< 0.1 ppb	
Trace Impurities - Nickel (Ni)	≤ 2.0 ppb	0.3 ppb	
Trace Impurities – Potassium (K)	≤ 500.0 ppb	< 2.0 ppb	
Trace Impurities - Selenium (Se)	≤ 50.0 ppb	< 0.1 ppb	
Trace Impurities - Silicon (Si)	≤ 100.0 ppb	31.5 ppb	
Trace Impurities – Silver (Ag)	≤ 1.0 ppb	< 0.3 ppb	

>>> Continued on page 2 >>>

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





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

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

For Laboratory, Research, or Manufacturing Use

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



Hydrochloric Acid, 36.5-38.0% BAKER INSTRA-ANALYZED® Reagent

For Trace Metal Analysis





R->10/13/24 Met dig

M 6121

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

Revision No: 1

Certificate of Analysis

Test	Specification	Result
ACS - Assay (as HCl) (by acid-base titrn)	36.5 - 38.0 %	37.6
ACS - Color (APHA)	<= 10	5
ACS - Residue after Ignition	<= 3 ppm	1
ACS - Specific Gravity at 60°/60°F	1.185 – 1.192	1.190
ACS – Bromide (Br)	<= 0.005 %	< 0.005
ACS - Extractable Organic Substances	<= 5 ppm	1
ACS - Free Chlorine (as Cl2)	<= 0.5 ppm	< 0.5
Phosphate (PO ₄)	<= 0.05 ppm	< 0.03
Sulfate (SO ₄)	<= 0.5 ppm	< 0.3
Sulfite (SO ₃)	<= 0.8 ppm	0.3
Ammonium (NH ₄)	<= 3 ppm	< 1
Trace Impurities – Arsenic (As)	<= 0.010 ppm	< 0.003
Trace Impurities - Aluminum (Al)	<= 10.0 ppb	< 0.2
Arsenic and Antimony (as As)	<= 5 ppb	< 3
Trace Impurities – Barium (Ba)	<= 1.0 ppb	< 0.2
Trace Impurities – Beryllium (Be)	<= 1.0 ppb	< 0.2
Trace Impurities – Bismuth (Bi)	<= 10.0 ppb	< 1.0
Trace Impurities – Boron (B)	<= 20.0 ppb	< 5.0
Frace Impurities – Cadmium (Cd)	<= 1.0 ppb	< 0.3
Frace Impurities – Calcium (Ca)	<= 50.0 ppb	29.7
race Impurities – Chromium (Cr)	<= 1.0 ppb	< 0.4
race Impurities – Cobalt (Co)	<= 1.0 ppb	< 0.4
race Impurities – Copper (Cu)	<= 1.0 ppb	< 0.1
race Impurities – Gallium (Ga)	<= 1.0 ppb	< 0.2

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

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

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

Country of Origin:

US

Packaging Site:

Phillipsburg Mfg Ctr & DC





Certificate of Analysis

1.00132.0000 Barbituric acid for analysis EMSURE® N020065932

	Spec. Values	3	Batch Values	
Assay (acidimetric)	≥ 99	%	99.6	%
Identity (IR-spectrum)	passes test		passes test	
Chloride (CI)	≤ 40	ppm	≤ 40	ppm
Heavy metals (as Pb)	≤ 50	ppm	≤ 50	ppm
Fe (Iron)	≤ 10	ppm	≤ 10	ppm
Sulfated ash	≤ 0.1	%	≤ 0.1	%
Loss on Drying (105 °C)	≤ 0.1	%	≤ 0.1	%
Suitability as reagent (for cyanide determination)	passes test		passes test	

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

Ioannis Chartomatsidis

Responsible laboratory manager quality control

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

(sodium dihydrogen phosphate, monohydrate)

Material No.: 3818-05 Batch No.: 0000225799

Manufactured Date: 2018/12/05 Retest Date: 2025/12/03

Revision No: 1

Certificate of Analysis

Meets ACS Reagent Chemical Requirements,

Test	Specification	Result
Assay (NaH2PO4 · H2O)	98.0 - 102.0 %	99.5
pH of 5% Solution at 25°C	4.1 - 4.5	4.3
Insoluble Matter	<= 0.01 %	< 0.01
Chloride (CI)	<= 5 ppm	< 5
ACS - Sulfate (SO ₄)	<= 0.003 %	< 0.003
Calcium (Ca)	<= 0.005 %	< 0.005
Potassium (K)	<= 0.01 %	< 0.01
Heavy Metals (as Pb)	<= 0.001 %	< 0.001
Trace Impurities – Iron (Fe)	<= 0.001 %	< 0.001

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

Country of Origin: IN

Packaging Site: Paris Mfg Ctr & DC





RICCA CHEMICAL COMPANY

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customerservice@riccachemical.com

Certificate of Analysis Onlong Concession Co

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

Lot Number: 4401F99

Product Number: 1551

Manufacture Date: JAN 08, 2024

Expiration Date: DEC 2025

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

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

5 10 15 20 25 30 35 40 45 50 pН 7.12 7.09 7.06 7.04 7.02 7.00 6.99 6.98 6.98 6.97 6.97

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

Test	Specification	Result	
Appearance	Yellow liquid	Passed	*Not a certified value
Test	Certified Value	Uncertainty	NIST SRM#
pH at 25°C (Method: SQCP027, SQCP033)	7.004	0.02	186-I-g, 186-II-g, 191d

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

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

Part Number	Size / Package Type	Shelf Life (Unopened Container)
1551-1	4 L natural poly	24 months
1551-1CT	4 L Cubitainer®	24 months
1551-2.5	10 L Cubitainer®	24 months
1551-5	20 L Cubitainer®	24 months
		V /V 1.11 1.

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

faul Drandon

Paul Brandon (01/08/2024)

Production Manager

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

This product was tested in an ISO 17025 Accredited Laboratory

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



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Certificate of Analysis

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

Lot Number: 4310G83

Product Number: 1601

Manufacture Date: OCT 09, 2023

Expiration Date: MAR 2025

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

°C 0 5 10 15 20 25 30 35 40 50

pH 10.31 10.23 10.17 10.11 10.05 10.00 9.95 9.91 9.87 9.81

Name	CAS#	Grade
Water	7732-18-5	ACS/ASTM/USP/EP
Sodium Carbonate	497-19-8	ACS
Sodium Bicarbonate	144-55-8	ACS
Sodium Hydroxide	1310-73-2	Reagent
Preservative	Proprietary	2008020
Blue Dye	Proprietary	
		De la companya de la

Test	Specification	Result	
Appearance	Blue liquid	Passed	*Not a certified value.
Test	Certified Value	Uncertainty	NIST SRM#
pH at 25°C (Method: SQCP027, SQCP033)	10.003	0.02	186-I-g, 186-II-g, 191d

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

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

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

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

Hand Brandon

Paul Brandon (10/09/2023)

Production Manager

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

This product was tested in an ISO 17025 Accredited Laboratory

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Version: 1.3 Lot Number: 4310G83 Product Number: 1601 Page 2 of 2



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Certificate of Analysis

Manufacture Date: MAR 09, 2024

Expiration Date: FEB 2026

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

Lot Number: 4403F90

Product Number: 1501

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 .

10 15 20 25 30 35 45 50 4.00 4.00 pН 4.00 4.00 4.00 4.00 4.01 4.02 4.03 4.04 4.06

Name	CAS#	Grade	
Water	7732-18-5	ACS/ASTM/USP/I	EP
Potassium Acid Phthalate	877-24-7	Buffer	
Preservative	Proprietary	Commercial	• •
Red Dye	Proprietary	Purified	
Test	Specification	Result	STATE OF STATE OF
Appearance	Red liquid	Passed	*Not a certified value
Test	Certified Value	Uncertainty	NIST SRM#
pH at 25°C (Method: SQCP027, SQCP033)	4.000	0.02	185i, 186-I-g, 186-II-g

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

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

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

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

Hand Brandon

Paul Brandon (03/09/2024)

Production Manager

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Version: 1.3 Lot Number: 4403F90 Product Number: 1501 Page 2 of 2



Certificate of Analysis

12/14/2022

12/31/2025

Sodium Hydroxide (Pellets)

Material: 0583

Grade: ACS GRADE Batch Number: 23B1556310

Chemical Formula: NaOH
Molecular Weight: 40

CAS #: 1310-73-2

Appearance: Storage: Room Temperature

Pellets

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

Manufacture Date:

Expiration Date:

Internal ID #: 710

Signature Additional Information

We certify that this batch conforms to the specifications listed.

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

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

28600 Fountain Parkway, Solon OH 44139 USA

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

Product meets analytical specifications of the grades listed.



Certificate of Analysis

12/14/2022

12/31/2025

Room Temperature

Manufacture Date:

Expiration Date:

Storage:

Sodium Hydroxide (Pellets)

Material: 0583

Grade: ACS GRADE Batch Number: 23B1556310

Chemical Formula: NaOH Molecular Weight: 40

CAS #: 1310-73-2

Appearance:

Pellets

Spec Set: 0583ACS

Internal ID #: 710

Signature Additional Information

We certify that this batch conforms to the specifications listed.

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

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

Product meets analytical specifications of the grades listed.



Part of TCP Analytical Group

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

Certificate of Analysis

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

Product Code: LC13545 Manufacture Date: August 01, 2024

Lot Number: 44080060 Expiration Date: January 30, 2025

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

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

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

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

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

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

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





Certificate of Analysis

W3139 Received on 9/9/24 by IZ

Product No.: A12044

Product: Chloramine-T trihydrate, 98%

Lot No.: 10239484

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

Order our products online thermofisher.com/chemicals

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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.

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customerservice@riccachemical.com

Certificate of Analysis

Cyanide Standard, 1000 ppm CN

Lot Number: 1411J58 Product Number: 2543

Manufacture Date: NOV 22, 2024 Expiration Date: MAY 2025

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

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

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

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

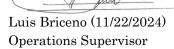
Specification	Reference
Stock Standard Cyanide Solution	APHA (4500-CN- F)
Stock Cyanide Solution	APHA (4500-CN- E)
Stock Cyanide Solution	APHA (4500-CN- K)
Stock Cyanide Solution	APHA (4500-CN- H)
Cyanide Reference Solution (1000 mg/L)	EPA (SW-846) (7.3.3.2)
Cyanide Calibration Stock Solution (1,000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

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

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

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

Version: 1.3 Lot Number: 1411J58 Product Number: 2543 Page 1 of 2



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Version: 1.3 Lot Number: 1411J58 Product Number: 2543 Page 2 of 2



SHIPPING DOCUMENTS



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

QUOTE NO.

coc Number 2046363

CLIENT INFORMATION					CLIENT PROJECT INFORMATION									CLIENT BILLING INFORMATION						
COMPANY: Metern A GE POWET BUSINESS				PROJECT NAME: Quarterly 2025 BILLTO:								PO#;								
CITY Parsippany STATE: ND ZIP:07054				PROJECT NO.: LOCATION: ADDRESS:																
CITY Par	Sippany	STATE: N	J ZIP:07054	PROJEC	CT MA	NAG	BER:						CITY					STAT	E:	ZIP:
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ALLIANCE SAMPLE ID	S	PROJECT AMPLE IDENTIFIC	CATION	SAMPLE MATRIX	SAM TYI			MPLE ECTION TIME	OF BOTTLES	B	<u>D</u>	E	4	5	6	7	8	9	7	MMENTS fy Preservatives D-NaOH E-ICE F-OTHER
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5.	4-1-25 3.						Page	CLIENT: 1 Hand Del						0	uiei			Shipment Complete ☐ YES ☐ NO		

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,	Client Name: Metern & GE POUR (BUSINESS	F
	Client Address: 700 Parsippany Road	(
	Client Address: 100 (413, part)	,
	Client Rep on Site: Sundas Pervez	
	Sampling Date: U.S.6 Departure Time: 115.6	
	Arrival Time: 1056 FIELD SAMPLING INFORMATIO	N
	FIELD SAME	

Project Location: Pars; Ppany	
Cooler Custody Seal: NIA	
Temperature Correction Factor (°C):	-

w	CCAL			
	ET	EL D	SAMPLING	INFORMATION

Arrival Time:	FI	ELD SAMPLING	INFORMA	ATION		
	<u> </u>			Field Measu	rements	7 7 1 tanaa
Sampling Location	Date/Time of sampling	Date/Time of A	nalysis	pН	Temperature °C	Specific Conductance (mS/cm) (99% -101%)
CCV C307]		4-1-25	1132	7.00	27.55	NIA
Da historiater	1135		1137	7.70	27.52	
DUP CCV (3071)	1142		1144	7.00	27,00	
	4					
						•

Meter: YSI MPS, Model # 556, Serial # 085A0063

	A	A	4-1-25
Sampler Signature/Date:	1		
QA Control# A3041249	V	V	

Supervisor Review/Date:	·

Page 46

Alliance Technical Group, LLC-Newark

284 Sheffield Street, Mountainside, NJ 07092 Tel. 908-789-8900 Fax 908-789-892

 _				
.D	SA	MPL	JNG	LOG

Client Name:	Metem	A GE	power	Business
	•			

Client Address: 700 Parsippany Road
Client Rep on Site: Sundas Pervez

Sampling Date: 4-1-25

Arrival Time: 1050 Departure Time: 1150

Project Name: Parsippany wastewater q
Project Location: Parsippany
Cooler Custody Seal: N/A

Temperature Correction Factor (°C): +3

FIELD EQUIPMENT CALIBRATION

	pH Calibration (SM4500-H B/9040C)						
	Calibration						
. ,	7.00 Buffer W 3071	4.00 Buffer W 3/07	10.00 Buffer W 3094	7.00 Buffer W 3 09 3			
Time	1054	1056	105.8	1100			
Temp °C	27.42	27.51	27.376	27.53 6			
pН	7.00	4 00	10.00	7.00			

FIELD EQUIPMENT CALIBRATION

Specific Conductance (mS/cm) (99% -101%)/(mmho/cm) (SM2510 B/120.1/9050A)				
Cal	bration (± 1%) (99% -101%)	ICV (± 1%) (99% -101%)		
	WP	WP		
Time				
Temp °C				
Reading (mS/cm)				

Sampler Signature/Date:

OA Control# A3041249

Supervisor Review/Date: _

Page 45



Laboratory Certification

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

QA Control Code: A2070148