

DATA REPORTING QUALIFIERS- INORGANIC

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

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



LAB CHRONICLE

OrderID: Q3184

Client: Holland Manufacturing Co.

Contact: Todd Holland

OrderDate: 9/24/2025 2:54:00 PM

Project: Pre Treatment Plant 2025

Location: J52

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q3184-01	EFFLUENT	WATER			09/24/25 12:00			09/24/25
			Ammonia	SM4500-NH3		09/24/25	09/25/25 14:03	
			BOD5	SM5210 B			09/25/25 10:00	
			Oil and Grease	1664A			09/26/25 09:00	
			Phosphorus-Ortho	SM4500-P E			09/25/25 12:17	
			Phosphorus-Total	365.3		09/25/25	09/25/25 13:37	
			TSS	SM2540 D			09/26/25 09:30	
Q3184-01DL	EFFLUENTDL	WATER			09/24/25 12:00			09/24/25
			Ammonia	SM4500-NH3		09/24/25	09/25/25 14:32	
Q3184-04	AEIRATION	WATER			09/24/25 12:00			09/24/25
			TSS	SM2540 D			09/26/25 09:30	
Q3184-05	INFLUENT	WATER			09/24/25 12:00			09/24/25
			Ammonia	SM4500-NH3		09/24/25	09/25/25 14:03	
			BOD5	SM5210 B			09/25/25 10:00	



LAB CHRONICLE

Q3184-05DL INFLUENTDL WATER 09/24/25 09/24/25 12:00

Ammonia SM4500-NH3 09/24/25 09/25/25

14:32



SAMPLE DATA



Lab Sample ID:

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

Matrix:

WATER

Fax: 908 789 8922

Q3184-01

Report of Analysis

Client: Holland Manufacturing Co. Date Collected: 09/24/25 12:00

Project: Pre Treatment Plant 2025 Date Received: 09/24/25

Client Sample ID: EFFLUENT SDG No.: Q3184

% Solid: 0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Ammonia as N	363	OR	1	1.50	5.00	mg/L	09/24/25 15:40	09/25/25 14:03	SM 4500-NH3
									B plus G-21
BOD5	16500		1	0.20	2.00	mg/L		09/25/25 10:00	SM 5210 B-16
Oil and Grease	25.6		1	0.29	5.00	mg/L		09/26/25 09:00	1664A
Orthophosphate as P	0.069		1	0.0040	0.050	mg/L		09/25/25 12:17	SM 4500-P
									E-21
Phosphorus, Total	0.12		1	0.0050	0.050	mg/L	09/25/25 10:40	09/25/25 13:37	365.3
TSS	2340		1	1.00	4.00	mg/L		09/26/25 09:30	SM 2540 D-20

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



Fax: 908 789 8922

Report of Analysis

Client: Holland Manufacturing Co. Date Collected: 09/24/25 12:00 Project: Pre Treatment Plant 2025 Date Received: 09/24/25 Client Sample ID: **EFFLUENTDL** SDG No.: Q3184 Lab Sample ID: Q3184-01DL Matrix: WATER % Solid: 0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Ammonia as N	336	D	5	7.50	25.0	mg/L	09/24/25 15:40	09/25/25 14:32	
									B plus G-21

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



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Report of Analysis

Client: Holland Manufacturing Co. Date Collected: 09/24/25 12:00 Project: Pre Treatment Plant 2025 Date Received: 09/24/25 Client Sample ID: **AEIRATION** SDG No.: Q3184 Lab Sample ID: Q3184-04 Matrix: WATER % Solid: 0

Parameter	Conc. Qua.	DF MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
TSS	3870	1 1.00	4.00	mg/L		09/26/25 09:30	SM 2540 D-20

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



Report of Analysis

Client: Holland Manufacturing Co. Date Collected: 09/24/25 12:00

Project: Pre Treatment Plant 2025 Date Received: 09/24/25

Client Sample ID: **INFLUENT** SDG No.: Q3184 Lab Sample ID: Q3184-05 WATER

> % Solid: 0

Matrix:

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Ammonia as N	264	OR	1	1.50	5.00	mg/L	09/24/25 15:40	09/25/25 14:03	SM 4500-NH3 B plus G-21
BOD5	5370		1	0.20	2.00	mg/L		09/25/25 10:00	SM 5210 B-16

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



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Report of Analysis

Client: Holland Manufacturing Co. Date Collected: 09/24/25 12:00 Project: Pre Treatment Plant 2025 Date Received: 09/24/25 Client Sample ID: **INFLUENTDL** SDG No.: Q3184 Lab Sample ID: Q3184-05DL Matrix: WATER % Solid: 0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Ammonia as N	236	D	5	7.50	25.0	mg/L	09/24/25 15:40	09/25/25 14:32	
									B plus G-21

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



QC RESULT SUMMARY



Fax: 908 789 8922

Initial and Continuing Calibration Verification

Client: Holland Manufacturing Co. SDG No.: Q3184

Analyte		Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID: Ammonia as N	ICV1	mg/L	0.98	1	98	90-110	09/25/2025
Sample ID: Ammonia as N	CCV1	mg/L	0.98	1	98	90-110	09/25/2025
Sample ID: Ammonia as N	CCV2	mg/L	1	1	100	90-110	09/25/2025
Sample ID: Ammonia as N	CCV3	mg/L	1	1	100	90-110	09/25/2025





Initial and Continuing Calibration Verification

Client: Holland Manufacturing Co. SDG No.: Q3184

Analyte		Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID: 0	CV	mq/L	0.494	0.50	99	90-110	09/25/2025
		IIIG/ L	0.494	0.50		90-110	09/25/2025
Sample ID:	CCV1						
Orthophosphate	as P	mg/L	0.502	0.5	100	90-110	09/25/2025
•	CCV2						
Orthophosphate	as P	mg/L	0.505	0.5	101	90-110	09/25/2025





Initial and Continuing Calibration Verification

Client: Holland Manufacturing Co. SDG No.: Q3184

Analyte		Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID: Phosphorus,	ICV Total	mg/L	0.505	0.50	101	90-110	09/25/2025
Sample ID: Phosphorus,	CCV1 Total	mg/L	0.502	0.50	100	90-110	09/25/2025
Sample ID: Phosphorus,	CCV2	mg/L	0.491	0.50	98	90-110	09/25/2025





Initial and Continuing Calibration Verification

Client: Holland Manufacturing Co. SDG No.: Q3184

Project: Pre Treatment Plant 2025 RunNo.: LB137320





Initial and Continuing Calibration Blank Summary

Client: Holland Manufacturing Co. SDG No.: Q3184

Analyte	Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID: ICB1 Ammonia as N	mg/L	< 0.0500	0.0500	U	0.030	0.1	09/25/2025
Sample ID: CCB1 Ammonia as N	mg/L	< 0.0500	0.0500	U	0.030	0.1	09/25/2025
Sample ID: CCB2 Ammonia as N	mg/L	< 0.0500	0.0500	U	0.030	0.1	09/25/2025
Sample ID: CCB3 Ammonia as N	mg/L	< 0.0500	0.0500	U	0.030	0.1	09/25/2025





Initial and Continuing Calibration Blank Summary

Client: Holland Manufacturing Co. SDG No.: Q3184

Analyte	Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID: CB Orthophosphate as P	mg/L	0.008	0.0250	J	0.0038	0.05	09/25/2025
Sample ID: CCB1 Orthophosphate as P	mg/L	0.009	0.0250	J	0.0038	0.05	09/25/2025
Sample ID: CCB2 Orthophosphate as P	mg/L	0.009	0.0250	J	0.0038	0.05	09/25/2025



Initial and Continuing Calibration Blank Summary

Client: Holland Manufacturing Co. SDG No.: Q3184

Analyte		Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID:	ICB							
Phosphorus,	Total	mg/L	0.009	0.0250	J	0.0045	0.05	09/25/2025
Sample ID:	CCB1							
Phosphorus,	Total	mg/L	0.011	0.0250	J	0.0045	0.05	09/25/2025
Sample ID:	CCB2							
Phosphorus,	Total	mg/L	0.008	0.0250	J	0.0045	0.05	09/25/2025



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Initial and Continuing Calibration Blank Summary

Client: Holland Manufacturing Co. SDG No.: Q3184

Project: Pre Treatment Plant 2025 RunNo.: LB137320



Preparation Blank Summary

Client: Holland Manufacturing Co. SDG No.: Q3184

Project: Pre Treatment Plant 2025

Analyte	Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID: LB137318 BOD5	BBL mg/L	< 0.2000	0.2000	U	0.20	2.0	09/25/2025
Sample ID: LB137319 Orthophosphate as P	BL mg/L	0.005	0.0250	J	0.004	0.05	09/25/2025
Sample ID: LB137326 Oil and Grease	BBL mg/L	< 2.5000	2.5000	U	0.29	5.0	09/26/2025
Sample ID: LB137328	BBL mg/L	< 2.0000	2.0000	U	1	4	09/26/2025
Sample ID: PB169820 Ammonia as N	OBL mg/L	< 0.0500	0.0500	U	0.03	0.1	09/25/2025
Sample ID: PB169837 Phosphorus, Total	7BL mg/L	0.008	0.0250	J	0.005	0.05	09/25/2025



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Matrix Spike Summary

Client: Holland Manufacturing Co. SDG No.: Q3184

Project: Pre Treatment Plant 2025 Sample ID: Q3168-05

Client ID: TOTES COMP#1MS 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	
Ammonia as N	mg/L	75-125	1.10		0.10		1	1	100		09/25/2025	



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Matrix Spike Summary

Client: Holland Manufacturing Co. SDG No.: Q3184

Project: Pre Treatment Plant 2025 Sample ID: Q3168-05

Client ID: TOTES COMP#1MSD 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	
Ammonia as N	mg/L	75-125	1.10		0.10		1	1	100		09/25/2025	_



Fax: 908 789 8922

Matrix Spike Summary

Client: Holland Manufacturing Co. SDG No.: Q3184

Project: Pre Treatment Plant 2025 Sample ID: Q3184-01

Client ID: EFFLUENTMS Percent Solids for Spike Sample: 0

Analyte	Units	Acceptance Limit %R	Spiked Result	Conc. Qualifier	Sample Result	Conc. Qualifier	Spike Added	Dilution Factor	% Rec	Qual	Analysis Date
Phosphorus, Total	mg/L	90-110	0.57		0.12		0.5	1	90	*	09/25/2025
Orthophosphate as P	mg/L	90-110	0.60		0.069		0.5	1	105		09/25/2025



Fax: 908 789 8922

Matrix Spike Summary

Client: Holland Manufacturing Co. SDG No.: Q3184

Project: Pre Treatment Plant 2025 Sample ID: Q3184-01

Client ID: EFFLUENTMSD Percent Solids for Spike Sample: 0

Analyte	Units	Acceptance Limit %R	Spiked Result	Conc. Qualifier	Sample Result	Conc. Qualifier	Spike Added	Dilution Factor	% Rec	Qual	Analysis Date
Phosphorus, Total	mg/L	90-110	0.56		0.12		0.5	1	88	*	09/25/2025
Orthophosphate as P	mg/L	90-110	0.59		0.069		0.5	1	105		09/25/2025



Fax: 908 789 8922

Matrix Spike Summary

Client: Holland Manufacturing Co. SDG No.: Q3184

Project: Pre Treatment Plant 2025 Sample ID: Q3184-01

Client ID: Q3184-01MS 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	
Oil and Grease	mg/L	78-114	45.7		25.6		20.0	1	101		09/26/2025	



Fax: 908 789 8922

Matrix Spike Summary

Client: Holland Manufacturing Co. SDG No.: Q3184

Project: Pre Treatment Plant 2025 Sample ID: Q3184-01

Client ID: Q3184-01MSD 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	
Oil and Grease	mg/L	78-114	45.7		25.6		20.0	1	101		09/26/2025	



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Duplicate Sample Summary

Client: Holland Manufacturing Co. SDG No.: Q3184

Project: Pre Treatment Plant 2025 Sample ID: Q3168-05

Client ID: TOTES COMP#1DUP 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	
Ammonia as N	mg/L	+/-20	0.10		0.10		1	0		09/25/2025	



Fax: 908 789 8922

Duplicate Sample Summary

Client: Holland Manufacturing Co. SDG No.: Q3184

Project: Pre Treatment Plant 2025 Sample ID: Q3168-05

Client ID: TOTES COMP#1MSD 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
Ammonia as N	mg/L	+/-20	1.10		1.10		1	0		09/25/2025



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Duplicate Sample Summary

Client: Holland Manufacturing Co. SDG No.: Q3184

Project: Pre Treatment Plant 2025 Sample ID: Q3180-02

Client ID: CompDUP 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
BOD5	mg/L	+/-20	3570		3480		1	2.55		09/25/2025
TSS	mg/L	+/-5	908		904		1	0.44		09/26/2025



 ${\tt 284~Sheffield~Street,~Mountainside,~New~Jersey~07092,~Phone:908~789~8900,}\\$

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Duplicate Sample Summary

Client: Holland Manufacturing Co. SDG No.: Q3184

Project: Pre Treatment Plant 2025 Sample ID: Q3184-01

Client ID: EFFLUENTDUP 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
Orthophosphate as P	mg/L	+/-20	0.069		0.070		1	1.44		09/25/2025
Phosphorus, Total	mg/L	+/-20	0.12		0.12		1	1.67		09/25/2025



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Duplicate Sample Summary

Client: Holland Manufacturing Co. SDG No.: Q3184

Project: Pre Treatment Plant 2025 Sample ID: Q3184-01

Client ID: EFFLUENTMSD 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
Orthophosphate as P	mg/L	+/-20	0.60		0.59		1	0.51		09/25/2025
Phosphorus, Total	mg/L	+/-20	0.57		0.56		1	1.42		09/25/2025



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Duplicate Sample Summary

Client: Holland Manufacturing Co. SDG No.: Q3184

Project: Pre Treatment Plant 2025 Sample ID: Q3184-01

Client ID: Q3184-01MSD 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
Oil and Grease	mg/L	+/-18	45.7		45.7		1	0		09/26/2025





Laboratory Control Sample Summary

Client: Holland Manufacturing Co. SDG No.: Q3184

Analyte		Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID	LB137318BS								
BOD5		mg/L	198	193		97	1	84.6-115.4	09/25/2025





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Laboratory Control Sample Summary

Client: Holland Manufacturing Co. SDG No.: Q3184

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID LB137319BS								
Orthophosphate as P	mg/L	0.5	0.49		98	1	90-110	09/25/2025





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Laboratory Control Sample Summary

Client: Holland Manufacturing Co. SDG No.: Q3184

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID LB137326BS								
Oil and Grease	mg/L	20.0	17.1		86	1	78-114	09/26/2025





Laboratory Control Sample Summary

Client: Holland Manufacturing Co. SDG No.: Q3184

Analyte		Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID	LB137328BS								
TSS		mg/L	550	531		96	1	90-110	09/26/2025





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Laboratory Control Sample Summary

Client: Holland Manufacturing Co. SDG No.: Q3184

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID PB169820BS								
Ammonia as N	mg/L	1	0.99		99	1	90-110	09/25/2025





Laboratory Control Sample Summary

Client: Holland Manufacturing Co. SDG No.: Q3184

Project: Pre Treatment Plant 2025 Run No.: LB137320

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID PB169837BS								
Phosphorus, Total	mg/L	0.50	0.51		102	1	90-110	09/25/2025



RAW DATA

Reviewed By:Iwona On:9/26/2025 10:41:04 AM Test results

Aquakem 7.2AQ1

Page:

Aquakem 7.2AQ1

Page:

Test results

Page:

Alliance Technical Group 284 Sheffield Street, Mountainside, NJ 07092

Reviewed by : RM Instrument ID : Konelab

9/25/2025 14:32 ______

Test: Ammonia-N

Sample Id	Result	Dil. 1 +	Response	Errors
ICV1 ICB1 CCV1 CCB1 RL CHECK PB169820BL PB169820BS Q3168-05 Q3168-05DUP Q3168-05MS	0.977 -0.002 0.981 0.001 0.090 -0.000 0.991 0.105 0.101	0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.200 0.017 0.201 0.017 0.034 0.017 0.203 0.037 0.036 0.224	90% (50-150) 09/25/2025 RH
Q3168-05MSD Q3168-06 Q3184-01 Q3184-05 CCV2 CCB2 Q3184-01DLX5 Q3184-05DLX5 CCV3 CCB3	1.147 0.103 7.250 5.280 1.027 0.001 1.344 0.945 0.996 0.000	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.232 0.036 1.375 1.006 0.210 0.017 0.269 0.194 0.204 0.017	Test limit high Test limit high

N 20 1.122 Mean 1.8565 SD CV% 165.48

Aquakem v. 7.2AQ1

Results from time period:

Thu Sep 25 12:29:28 2025

Thu Sep 25 14:32:11 2025

		-020				
Sample Id	San	n/Ctr/c/ Test short r Test type	Result	Result unit	Result date and time	Stat
0.0PPM	Α	Ammonia-1 P	0.0086	mg/l	9/25/2025 12:29:28	
0.1PPM	Α	Ammonia-NP	0.1159	mg/l	9/25/2025 12:29:29	
0.2PPM	Α	Ammonia-NP	0.1971	mg/l	9/25/2025 12:29:30	
0.4PPM	Α	Ammonia- ↑ P	0.3918	mg/l	9/25/2025 12:29:31	
1.0PPM	Α	Ammonia-NP	0.9848	mg/l	9/25/2025 12:29:32	
1.3PPM	Α	Ammonia-NP	1.3124	mg/l	9/25/2025 12:29:33	
2.0PPM	Α	Ammonia-1 P	2.0227	mg/l	9/25/2025 12:29:34	
ICV1	S	Ammonia-1 P	0.9766	mg/l	9/25/2025 13:44:38	
ICB1	S	Ammonia-NP	-0.002	mg/l	9/25/2025 13:44:41	
CCV1	S	Ammonia-1 P	0.9805	mg/l	9/25/2025 13:44:42	
CCB1	S	Ammonia-NP	0.001	mg/l	9/25/2025 13:44:44	
RL CHECK	S	Ammonia-NP	0.0901	mg/l	9/25/2025 13:44:46	
PB169820BL	S	Ammonia-NP	-0.0005 1	ng/l	9/25/2025 13:55:19	
PB169820BS	S	Ammonia-NP	0.9909 1	mg/l	9/25/2025 13:55:22	
Q3168-05	S	Ammonia-NP	0.1049 r	ng/l	9/25/2025 13:55:23	
Q3168-05DUP	S	Ammonia-1 P	0.1007 r	ng/l	9/25/2025 13:55:25	
Q3168-05MS	S	Ammonia-1 P	1.1038 r	ng/l	9/25/2025 13:55:27	
Q3168-05MSD	S	Ammonia-NP	1.1467 r	ng/l	9/25/2025 13:55:28	
Q3168-06	S	Ammonia-l P	0.1025 r	ng/l	9/25/2025 14:03:08	
Q3184-01	S	Ammonia-NP	7.2502 n	ng/l	9/25/2025 14:03:09	
Q3184-05	S	Ammonia-NP	5.2796 n	ng/l	9/25/2025 14:03:10	
CCV2	S	Ammonia-NP	1.0271 n	ng/l	9/25/2025 14:03:12	
CCB2	S	Ammonia-1 P	0.001 n	ng/l	9/25/2025 14:03:13	
Q3184-01DLX5	S	Ammonia-1 P	1.3436 m	ng/l	9/25/2025 14:32:04	
Q3184-05DLX5	S	Ammonia-NP	0.9451 m	ng/l	9/25/2025 14:32:07	
CCV3	S	Ammonia-1 P	0.996 m	ng/l	9/25/2025 14:32:09	
CCB3	S	Ammonia-NP	0.0002 m	ng/l	9/25/2025 14:32:11	

Calibration results

Aquakem 7.2AQ1

Page:

Alliance Technical Group 284 Sheffield Street, Mountainside, NJ 07092

Reviewed by : RM Instrument ID : Konelab

9/25/2025 12:58

Test Ammonia-N

Accepted

9/25/2025 12:58

Factor

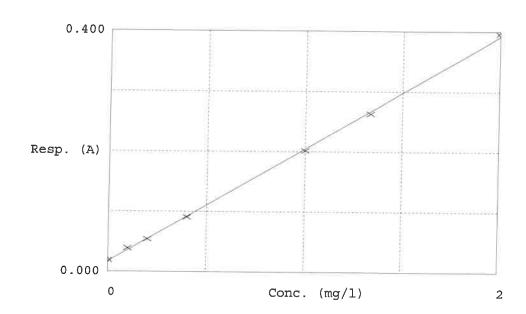
5.34

Bias

0.017

Coeff. of det. 0.999530

Errors



	Calibrator	Response	Calc. con.	Conc.	le Errors	
1	0.00PPM	0.019	0.0086	0.0000		
2	NH3-2PPM	0.039	0.1159	0.1000	15-9	
3	NH3-2PPM	0.054	0.1971	0.2000	-15	
4	NH3-2PPM	0.091	0.3918	0.4000	-2.1	
5	NH3-2PPM	0.202	0.9848	1.0000	-1.5	
6	NH3-2PPM	0.263	1.3124	1.3333		
7	NH3-2PPM	0.396	2.0227	2.0000	1.0	
					1-1	

Alliance

QC BATCH ID: LB137318

BOD Water: WP114908

Starch: W3149

POLYSEED: WP114910

GGA: WP114909

Sulfuric acid, 1N: WP112832

Chlorine Strips: W3155

pH Strips: W3215

BOD5 LOG

ANALYST: rubirInst Id :DO METER

Reviewed By:lwona On:9/30/2025 12:<u>11:22</u>

SUPERVISOR: Iwona

Analysis Date: 09/25/2025

MANGANOUS SULFATE SOLUTION: W3103

Alkaline Iodide Azide: W3109

Sodium Thiosulfate, 0.025N: W3105

NaOH, 1N: WP113878

IncubatorID: INCUBATOR #3

GuageID: 0511064

Zero DO: WP114920

Lab SampleID	Client ID	Bottle No.	VOL.	Initial Reading(ML)	Final Reading(ML)	Difference	Average
WINKLER 1	WINKLER 1	1	300	0.0	9.6	9.6	9.6
WINKLER 2	WINKLER 2	2	300	9.8	19.4	9.6	9.6

Barometric Pressurel: 755 mmHg DO Meter BOD fluid reading for winkler comparison: 9.69

After Incubation

Meter Calibration2: 8.65 Zero DO Reading2: 0.15 mg/L (<=0.2 Criteria)

Barometric Pressure2: 760 mmHg



QC BATCH ID: LB137318

INCUBATOR TEMP IN(C): 20.3

TIME IN: 10:00

DATE IN: 09/25/2025

INCUBATOR TEMP OUT (C): 19.8

TIME OUT: 09:20

DATE OUT: 09/30/2025

Lab SampleID	Bottle No.	Check CL	Initial PH	Final PH	Temp °C	Sam Vol. (mL)	D.O.1 Initial	D.O.2 Final	Depletion	BOD Result (mg/L)	Avg Result (mg/L)	Comment
LB137318BL	1	No	6.59	N/A	20.90	300	9.68	9.66	0.02	0.02	0.02	
POLYSEED	1					10	9.63	6.67	2.96	0.59	0.63	
POLYSEED	2					15	9.59	4.53	5.06	0.67		
POLYSEED	3					20	9.52	3.23	6.29	0.63		
GGA	1					6	9.52	5.09	4.43	190	192.83	
GGA	2					6	9.50	5.00	4.5	193.5		
GGA	3					6	9.50	4.97	4.53	195		
Q3168-05	1	No	5.77	6.81	20.20	5	9.61	7.60	2.01	82.8	72.22	pH Adjuste
Q3168-05	2					20	9.52	4.78	4.74	61.65		
Q3168-05	3					50	8.93	0.24	-	0		
Q3168-05	4					150	7.27	0.19	-	0		
Q3168-06	1	No	6.32	6.92	20.20	5	9.59	6.98	2.61	118.8	107.1	pH Adjuste
Q3168-06	2					20	9.42	2.43	6.99	95.4		
Q3168-06	3					50	8.71	0.20	-	0		
Q3168-06	4					150	7.21	0.12	-	0		
Q3180-02	1	No	6.76	N/A	20.30	5	9.41	2.83	6.58	3570	3570	
Q3180-02	2					10	9.35	0.11	-	0		
Q3180-02	3					20	9.14	0.09	-	0		
Q3180-02	4					30	9.03	0.07	-	0		
Q3180-02DUP	1	No	6.76	N/A	20.30	5	9.42	2.99	6.43	3480	3480	
Q3180-02DUP	2					10	9.36	0.15	-	0		
Q3180-02DUP	3					20	9.12	0.12	-	0		
Q3180-02DUP	4					30	9.04	0.10	-	0		
Q3184-01	1	No	7.67	7.31	20.50	1	9.45	7.40	2.05	42600	16504.5	pH Adjuste
Q3184-01	2					5	9.34	6.67	2.67	12240		
Q3184-01	3					10	9.27	6.42	2.85	6660		
Q3184-01	4					50	9.17	1.01	8.16	4518		
Q3184-01	5					100	9.01	0.46	-	0		
Q3184-05	1	No	4.91	7.01	20.30	1	9.46	7.76	-	0	5370	pH Adjuste
Q3184-05	2					5	9.42	7.40	2.02	8340		
Q3184-05	3					10	9.39	7.04	2.35	5160		
Q3184-05	4					50	9.21	4.23	4.98	2610		
Q3184-05	5					100	8.90	0.94	-	0		
Q3202-01	1	No	5.99	7.09	20.10	5	9.36	8.89	-	0		pH Adjuste
Q3202-01	2					20	9.24	8.81	-	0		
Q3202-01	3					50	9.07	8.65	-	0		
Q3202-01	4					150	8.25	8.11	-	0		
Q3202-03	1	No	5.46	6.85	20.10	5	9.60	8.69	-	0		pH Adjuste
Q3202-03	2					20	9.44	8.39	-	0		
Q3202-03	3					50	9.35	8.27	-	0		
Q3202-03	4					150	8.44	8.16	-	0		

Reviewed By:Iwona On:9/30/2025 12:11:22 5 Q3202-05 5.84 6.74 20.00 9.63 8.78 Inst Id :DO METER Q3202-05 2 20 9.60 8.51 0 LB:LB137318 Q3202-05 3 50 9.57 8.40 03202-05 4 150 8.97 7.49 Q3202-07 1 5.94 6.99 5 8.86 No 20.00 9.65 pH Adjuste Q3202-07 2 20 9.59 8.60 Q3202-07 3 50 9.33 8.29 Q3202-07 4 150 8.07 7.98 _ Q3202-09 1 5.83 7.23 20.00 5 9.61 8.88 pH Adjuste No 2 Q3202-09 20 9.57 8.68 0 Q3202-09 3 50 9.45 8.27 Q3202-09 4 150 8.68 8.12 Q3202-11 1 No 6.44 6.70 20.00 5 9.55 7.56 37.06 pH Adjuste 2 20 Q3202-11 9.47 6.03 3.44 42.15 3 Q3202-11 50 9.09 3.13 5.96 31.98 4 150 Q3202-11 6.94 0.96 1 6.23 Q3202-17 No 6.59 20.00 5 9.60 7.62 _ 45.05 pH Adjuste 2 Q3202-17 20 8.89 4.89 4 50.55 03202-17 3 50 8.30 1.08 7.22 39.54

150

6.02

0.49

NOTE: 2ml POLYSEED added to GGA and all the Samples, but not in Blank.

NOTE (For, CBOD5): 0.16 g Nitrification Inhibitor added to GGA and all the Samples, but not in Blank.

Q3202-17

4

QA Control Code: A2040063 Page 3 of 3 SOP ID: MSMS210B-BOD/CBOD

eviewed By:lwona n:9/30/2025 12:11: M

CUC

(b13731B

WORKLIST(Hardcopy Internal Chain)

Minetal lates							2	
WOLKEIST Name:	D0d5-9-24	WorkList ID :	ID: 192047	Department :	Wet-Chemistry	Da	Date: 09-24-2025 12:51:32	25 12:51:32
Sample	Customer Sample	Matrix Test	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date Method	Method
03168-05	TOTES COMP#4							
	# LO COML#	Water	BODS	Cool 4 deg C	PSEG03	111	09/23/2025 SM5210 B	SM5210 B
Q3168-06	TOTES COMP#2	Water	BODS	Cash Mac				2017010
00,000				Cool 4 deg C	PSEG03	111	09/23/2025 SM5210 B	SM5210 B
ZU-001-02	Comp	Water	BOD5	Cool 4 deg C	ARAM01	151	3000/16/00	20702710
Q3184-01	FEFILIENT	10/01	1 (()			8	03/24/2023 SM3210 B	SI ULZCINIC
		water	BODS	Cool 4 deg C	HOLL01	J52	09/24/2025 SM5210 B	SM5240 B
Q3184-05	INFLUENT	Motor	000				2012-112020	GINIOZ IO D
		Maici	BUDS	Cool 4 deg C	HOLL01	J52	09/24/2025 SM5210 B	SM5210 B

Date/Time 09/25/2025

Date/Time 09/25/2025 Raw Sample Received by:

Raw Sample Relinquished by:

Raw Sample Relinquished by:

8187819

WORKLIST(Hardcopy Internal Chain)

09/23/2025 SM5210 B 09/23/2025 SM5210 B 09/23/2025 SM5210 B 09/23/2025 SM5210 B Date: 09-25-2025 07:15:18 Collect Date Method 09/23/2025 09/23/2025 Raw Sample Storage Location 63 63 <u>83</u> 63 163 63 LOCK01 Customer LOCK01 LOCK01 LOCK01 LOCK01 LOCK01 Department: Wet-Chemistry Cool 4 deg C Preservative WorkList ID: 192093 BOD5 BOD5 BOD5 BOD5 BOD5 BOD5 BOD5 Test Matrix Water Water Water Water Water Water Water Customer Sample bod5-09-25 SY-3DD SY-2R SY-2D SY-3D SY-5 SY-6 SY-3 WorkList Name: Q3202-01 Q3202-03 Q3202-05 Q3202-07 Q3202-09 Q3202-17 Q3202-11 Sample

SM5210 B

SM5210 B

SM5210 B

09/23/2025

63

LOCK01

Cool 4 deg C

Date/Time

Raw Sample Relinquished by: Raw Sample Received by:

Page 1 of 1

Raw Sample Relinquished by:

Raw Sample Received by:

Date/Time



Analytical Summary Report

Analysis Method: SM4500-P E ANALYST: Iwona

Parameter: Phosphorus-Ortho SUPERVISOR REVIEW BY: JIGNESH

Run Number: LB137319

Reagent/Standard	Lot/Log #
calibration std. phosphate 1 ppm	WP114894
calibration std. phosphate 0.5 ppm	WP114893
calibration std. phosphate 0.3 ppm	WP114892
calibration std. phosphate 0.1 ppm	WP114891
calibration std. phosphate 0.05 ppm	WP114889
calibration std. 0 ppm	WP114888
phosphate CCV std.	WP114896
5N sulfuric acid	WP112831
Combined reagent	WP114919
Phenolphthalein indicator	WP113378
Sodium hydroxide, 1N	WP113878
Phosphate ICV-LCS Std	WP114895
Phosphate LOD-MDL Std 0.025ppm	WP114899
Phosphate RL CHECK	WP114897

Intercept: -0.0031 Slope: 0.6556 Regression: 0.999736

Seq	Lab ID	True Value (mg/L)	DF	Initial Volume (mL)	Final Volume (mL)	Absorbance Reading at 880nm	Result (mg/L)	%D	AnalDate	AnalTime
1	CAL1	0.00	1	50	50	0.000	0.005		09/25/2025	12:10
2	CAL2	0.05	1	50	50	0.032	0.054	8	09/25/2025	12:10
3	CAL3	0.10	1	50	50	0.065	0.104	4	09/25/2025	12:11
4	CAL4	0.30	1	50	50	0.182	0.282	-6	09/25/2025	12:11
5	CAL5	0.50	1	50	50	0.326	0.502	0.4	09/25/2025	12:12
6	CAL6	1.00	1	50	50	0.655	1.004	0.4	09/25/2025	12:12



Analytical Summary Report



Analysis Method: SM4500-P E ANALYST: Iwona

Parameter: Phosphorus-Ortho SUPERVISOR REVIEW BY: JIGNESH

Run Number: LB137319

Seq	Lab ID	True Value (mg/l)	DF	Initial Volume (mL)	Final Volume (mL)	Absorbance Reading at 880nm	Result (mg/L)	AnalDate	AnalTime
1	ICV	0.50	1	50	50	0.321	0.494	09/25/2025	12:13
2	ICB		1	50	50	0.002	0.008	09/25/2025	12:13
3	CCV1	0.5	1	50	50	0.326	0.502	09/25/2025	12:14
4	CCB1		1	50	50	0.003	0.009	09/25/2025	12:14
5	RL Check	0.05	1	50	50	0.029	0.049	09/25/2025	12:15
6	LB137319BL		1	50	50	0.000	0.005	09/25/2025	12:15
7	LB137319BS	0.5	1	50	50	0.319	0.491	09/25/2025	12:16
8	Q2893-09		1	50	50	0.015	0.028	09/25/2025	12:16
9	Q3019-12		1	50	50	0.988	1.512	09/25/2025	12:17
10	Q3184-01		1	50	50	0.042	0.069	09/25/2025	12:17
11	Q3184-01DUP		1	50	50	0.043	0.070	09/25/2025	12:18
12	Q3184-01MS	0.5	1	50	50	0.387	0.595	09/25/2025	12:18
13	Q3184-01MSD	0.5	1	50	50	0.385	0.592	09/25/2025	12:19
14	Q3019-12		10	50	50	0.236	0.365	09/25/2025	12:19
15	CCV2	0.5	1	50	50	0.328	0.505	09/25/2025	12:20
16	CCB2		1	50	50	0.003	0.009	09/25/2025	12:20

Reviewed By:JIGNESH On:9/26/2025 12:12:51 PM

WORKLIST(Hardcopy Internal Chain)

P18137319

WorkList ID: 192077

ORTHO PH- 092425

WorkList Name:

Department: Wet-Chemistry

08/18/2025 SM4500-P E 09/02/2025 SM4500-P E 09/24/2025 SM4500-P E Date: 09-24-2025 14:55:41 Collect Date Method Raw Sample Location Storage QAO QAO **J**52 Customer HOLL01 ALL103 ALL103 Cool 4 deg C Cool 4 deg C Preservative NONE Phosphorus-Ortho Phosphorus-Ortho Phosphorus-Ortho Test Matrix Water Water Water MDL-WATER-03-QT3-2025 WP0925-PT-NUT1-WP **Customer Sample** EFFLUENT Q2893-09 Q3019-12 Q3184-01 Sample

04/24/25 16:20 Date/Time

Raw Sample Received by:

Raw Sample Relinquished by:

Page 1 of 1

12/26

Raw Sample Relinquished by: Raw Sample Received by:

Date/Time



Analytical Summary Report

Analysis Method: 365.3 ANALYST: Iwona

Parameter: Phosphorus-Total SUPERVISOR REVIEW BY: JIGNESH

Run Number: LB137320

Reagent/Standard	Lot/Log #
calibration std. phosphate 1 ppm	WP114894
calibration std. phosphate 0.5 ppm	WP114893
calibration std. phosphate 0.3 ppm	WP114892
calibration std. phosphate 0.1 ppm	WP114891
calibration std. phosphate 0.05 ppm	WP114889
calibration std. 0 ppm	WP114888
phosphate CCV std.	WP114896
5N sulfuric acid	WP112831
Combined reagent	WP114919
Phenolphthalein indicator	WP113378
Sodium hydroxide, 1N	WP113878
Phosphate LOD-MDL Std 0.025ppm	WP114899
Phosphate RL CHECK	WP114897

Intercept: -0.0031 Slope: 0.6537 Regression: 0.999824

Seq	Lab ID	True Value (mg/L)	DF	Initial Volume (mL)	Final Volume (mL)	Absorbance Reading at 880nm	Result (mg/L)	%D	AnalDate	AnalTime
1	CAL1	0.00	1	50	50	0.000	0.005		09/25/2025	13:30
2	CAL2	0.05	1	50	50	0.033	0.055	10	09/25/2025	13:30
3	CAL3	0.10	1	50	50	0.062	0.1	0	09/25/2025	13:31
4	CAL4	0.30	1	50	50	0.184	0.286	-4.7	09/25/2025	13:31
5	CAL5	0.50	1	50	50	0.324	0.5	0	09/25/2025	13:32
6	CAL6	1.00	1	50	50	0.653	1.004	0.4	09/25/2025	13:32



Analytical Summary Report



Analysis Method: 365.3 ANALYST: Iwona

Parameter: Phosphorus-Total SUPERVISOR REVIEW BY: JIGNESH

Run Number: LB137320

Seq	Lab ID	True Value (mg/l)	DF	Initial Volume (mL)	Final Volume (mL)	Absorbance Reading at 880nm	Result (mg/L)	AnalDate	AnalTime
1	ICV	0.50	1	50	50	0.327	0.505	09/25/2025	13:33
2	ICB		1	50	50	0.003	0.009	09/25/2025	13:33
3	CCV1	0.50	1	50	50	0.325	0.502	09/25/2025	13:34
4	CCB1		1	50	50	0.004	0.011	09/25/2025	13:34
5	RL Check	0.05	1	50	50	0.024	0.041	09/25/2025	13:35
6	PB169837BL		1	50	50	0.002	0.008	09/25/2025	13:35
7	PB169837BS	0.50	1	50	50	0.329	0.508	09/25/2025	13:36
8	Q2893-09		1	50	50	0.012	0.023	09/25/2025	13:36
9	Q3019-13		1	50	50	1.078	1.654	09/25/2025	13:37
10	Q3184-01		1	50	50	0.075	0.119	09/25/2025	13:37
11	Q3184-01DUP		1	50	50	0.076	0.121	09/25/2025	13:38
12	Q3184-01MS	0.50	1	50	50	0.368	0.568	09/25/2025	13:38
13	Q3184-01MSD	0.50	1	50	50	0.363	0.560	09/25/2025	13:39
14	Q3019-13		10	50	50	0.317	0.490	09/25/2025	13:39
15	CCV2	0.50	1	50	50	0.318	0.491	09/25/2025	13:40
16	CCB2		1	50	50	0.002	0.008	09/25/2025	13:40



Extraction and Analytical Summary Report

Analysis Method: 1664A

Test: Oil and Grease

Run Number: LB137326

Analysis Date: 09/26/2025

BalanceID: WC SC-5

OvenID: EXT OVEN-3

ANALYST: JIGNESH

REVIEWED BY: Iwona

Extraction Date: 09/26/2025

Extration IN Time: 08:10

Extration OUT Time: 08:30

Thermometer ID: $\overline{\text{EXT OVEN#3}}$

Dish #	Lab ID	Client ID	Matrix	pН	Sample Vol (ml)	Final Volume (ml)	Empty Dish Weight (g)	Final Empty Dish Weight(g)	Silica Gel Weight(g)	Weight After Drying(g)	Final Weight After Drying(g)	Change Weight (g)	Result in ppm
1	LB137326BL	LB137326BL	WATER	1.3	1000	100	2.7463	2.7463	0	2.7464	2.7464	0.0001	0.1
2	LB137326BS	LB137326BS	WATER	1.3	1000	100	2.9333	2.9333	0	2.9504	2.9504	0.0171	17.1
3	Q3164-01	DA-1	WATER	1.3	800	100	3.0282	3.0282	0	3.0429	3.0429	0.0147	18.38
4	Q3164-02	DA-2	WATER	1.6	1000	100	3.0433	3.0433	0	3.0552	3.0552	0.0119	11.9
5	Q3164-03	DA-3	WATER	1.3	800	100	3.0342	3.0342	0	3.1409	3.1409	0.1067	133.38
6	Q3184-01	EFFLUENT	WATER	1.3	1000	100	3.0464	3.0464	0	3.0720	3.0720	0.0256	25.6
7	Q3184-02	Q3184-1MS	WATER	1.6	1000	100	3.1586	3.1586	0	3.2043	3.2043	0.0457	45.7
8	Q3184-03	Q3184-1MSD	WATER	1.6	1000	100	2.7403	2.7403	0	2.7860	2.7860	0.0457	45.7



QC Batch# LB137326

Test: Oil and Grease

Analysis Date: 09/26/2025

Chemicals Used:

Chemical Name	Chemical Lot #		
HEXANE	W3204		
pH Paper 0-14	M6069		
Sodium Sulfate	EP2636		
1:1 HCL	WP112782		
Silica Gel	NA		
Sand	NA		

Standards Used:

Standard Name	Amount Used	Standard Lot #
LCSW	2.5 ML	WP112783
LCSWD	NA	N/A
MS/MSD	2.5 ML	WP112784

BALANCE CALIBRATION / OVEN Dessicator Data

Analytical Balance ID # : WC SC-6

Before Analysis

0.0020 gram Balance: 0.0018 (0.0018-0.0022) In OVEN TEMP1 : 71 °C Dessicator Time In1 : 09:46

1.0000 gram Balance: 1.0004 (0.9950-1.0050) In Time1: 09:00

Bal Check Time: 08:15 Out OVEN TEMP1: 70 °C Dessicator Time Out1: 10:30

Out Time1: 09:45

After Analysis

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

1.0000 gram Balance: 1.0003 (0.9950-1.0050) In Time2: 11:00

Bal Check Time: 12:40 Out OVEN TEMP2: 71 °C Dessicator Time Out2: 12:35

Out Time2: 12:00

Reviewed By:Iwona On:9/26/2025 1:38:03 PM Inst Id :WC SC-3 LB :LB137326

14130

WORKLIST(Hardcopy Internal Chain)

Department: Wet-Chemistry

WorkList ID: 192100

OIL & GREASE Q3164

WorkList Name:

Sample

Date: 09-26-2025 07:40:36

JKESTER 8/1

Collect Date Method 1664A 1664A 09/18/2025 1664A 09/18/2025 1664A 09/24/2025 1664A 09/24/2025 1664A 09/24/2025 09/18/2025 Raw Sample Storage Location **J22 J22 J22 J**52 **J**52 **J**52 Customer ATGG01 ATGG01 HOLL01 HOLL01 ATGG01 HOLL01 Conc H2SO4 to pH < 2 Preservative Oil and Grease Test Matrix Water Water Water Water Water Water Customer Sample Q3184-1MSD Q3184-1MS EFFLUENT DA-2 DA-3 DA-1

Q3164-02

Q3164-03

Q3164-01

Q3184-01

Q3184-02 Q3184-03

Date/Time $04|\lambda6|\lambda5$ 08;00

Raw Sample Relinquished by:

Raw Sample Received by:

Date/Time 09262Raw Sample Received by:

Raw Sample Relinquished by:

Page 1 of 1



TOTAL SUSPENDED SOLIDS - SM2540D

SUPERVISOR: Iwona

ANALYST: JIGNESH

Date: 09/25/2025

Run Number: LB137328

BalanceID: WC SC-5

OvenID: WC OVEN-1

FilterID: 60828725

104 °C 09/25/2025 14:00 TEMP1 OUT: 103 °c 09/25/2025 15:00 TEMP1 IN: TEMP2 IN:

104 °C 09/25/2025 15:30 TEMP2 OUT: 103 °C 09/25/2025 16:30

104 °C 09/26/2025 09:30 TEMP3 OUT: 103 °C 09/26/2025 11:10 TEMP3 IN:

104 °C 09/26/2025 11:40 TEMP4 OUT: 103 °c 09/26/2025 13:00 TEMP4 IN: ThermometerID: WET OVEN#1

Dish #	Lab ID	Client ID	Empty Dish Weight (g)	Final Empty Dish Weight (g)	Sample Volume (ml)	1st Empty Dish+Sample weight after 1.5hr drying @103-@105°C (g)	2nd Empty Dish+Sample weight after 1.5hr drying @103-@105°C (g)	Final Empty Dish+Sample weight after 1.5hr drying @103-@105°C (g)	Weight (g)	Result mg/L
1	LB137328BL	LB137328BL	1.3524	1.3525	100	1.3525	1.3525	1.3525	0.0000	0
2	LB137328BS	LB137328BS	1.4843	1.4844	100	1.5375	1.5375	1.5375	0.0531	531
3	Q3168-05	TOTES COMP#1	1.4720	1.4720	1000	1.5085	1.5086	1.5086	0.0366	36.6
4	Q3168-06	TOTES COMP#2	1.5004	1.5004	1000	1.5374	1.5375	1.5375	0.0371	37.1
5	Q3180-02	Comp	1.4935	1.4935	50	1.5389	1.5389	1.5389	0.0454	908
6	Q3180-02DUP	CompDUP	1.4856	1.4857	50	1.5309	1.5309	1.5309	0.0452	904
7	Q3184-01	EFFLUENT	1.4860	1.4861	20	1.5328	1.5328	1.5328	0.0467	2335
8	Q3184-04	AERATION	1.4943	1.4943	20	1.5717	1.5717	1.5717	0.0774	3870

Sample Volume (ml)

Final Empty Dish Weight (g)

Final Empty Dish + Sample weight after 1.5 hr drying @105°C(g)

Weight (g)

Weight (g) =C - B

D Result mg/L =1000 1000 Α

WORKLIST(Hardcopy Internal Chain)

W3 134328

						•		
WorkList Name :	tss q3184	WorkList ID:	ID: 192099	Department:	Department: Wet-Chemistry		Date: 09-26-2025 07-38-23	05.07-38-03
Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date Method	Method
03168-05	S C MANOG SELOT							
20-00-00	IOIES COMP#1 // C	Water TSS	TSS	Cool 4 dea C	DOEGO	7		
Q3168-06	TOTES COMP#2 N	Wester	CO		- OF GO	-	09/23/2025	09/23/2025 SM2540 D
Ç	N/1 == 1000	water	193	Cool 4 deg C	PSEG03	111	09/23/2025	09/23/2025 SM2540 D
Q3180-02 M	Comp	Water	100 H				20202020	OINESTA D
			2	C001 4 deg C	A D A R A D A			

09/24/2025 SM2540 D 09/24/2025 SM2540 D

J52 **J**51

ARAM01 HOLL01 HOLL01

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

TSS TSS TSS

Water Water Water

> **EFFLUENT AERATION**

Q3184-01 Q3184-04

J52

09/24/2025 SM2540 D

Date/Time OG/1/6/1/ S

Raw Sample Received by:

Raw Sample Relinquished by:

Page 1 of 1

Raw Sample Relinquished by:

Raw Sample Received by:



N/A

Weigh By:

SOP ID: MSM4500-NH3 B,G-Ammonia-18 SDG No: N/A Start Digest Date: 09/24/2025 Time: 14:00 Temp: 150 °C Matrix: WATER **End Digest Date:** 09/24/2025 Time: 15:00 Temp: 160 °C 1T betch 09/24/2025 15.40 Pippete ID: WC 150 t 09/24/2025 16.40 1600 Balance ID: N/A Hood ID: HOOD#2 Digestion tube ID: M5595 Block Thermometer ID: WC CYANIDE Block ID: WC-DIST-BLOCK-1 Filter paper ID: N/A **Prep Technician Signature:**

Weigh By: N/A	pH Meter ID : N/A	Supervisor Signature:
Standared Name	MLS USED	STD REF. # FROM LOG
LCSW	1.0ML	WP114786
MS/MSD SPIKE SOL.	1.0ML	WP114785
PBW	50.0ML	W3112
RL CHECK	0.1ML	WP114785
N/A	N/A	N/A

pH Meter ID: N/A

Chemical Used	ML/SAMPLE USED	Lot Number
BORATE BUFFER	2.5ML	WP113886
NAOH 6N	0.5-2.0ML	WP113887
H2SO4 0.04N	5.0ML	WP112828
pH strip-Ammonia	N/A	W3133
KI-starch paper	N/A	W3155
N/A	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

ALL GLASSWEAR ARE STEAMED OUT AND THERE WERE NO TRACE OF AMMONIA USING NESLER REAGENT WP114104,

Date / Time Prepped Sample Rel	inquished By/Location	Received By/Location
4/24/2025 17.05 12	/WC	RM ruses
Preparation Group	/	Analysis Group



Lab Sample ID	Client Sample ID	Initial Vol (ml)	Final Vol (ml)	рН	Sulfide	Oxidizing	Nitrate/ Nitrite	Comment	Prep Pos
PB169820BL	PBW820	50	50	<2	N/A	Negative	N/A	AFTER ADDING 6N NAOH PH IS 9.5	N/A
PB169820BS	LCS820	50	50	<2	N/A	Negative	N/A	AFTER ADDING 6N NAOH PH IS 9.5	N/A
Q3168-05DUP	TOTES COMP#1DUP	50	50	<2	N/A	Negative	N/A	AFTER ADDING 6N NAOH PH IS 9.5	N/A
Q3168-05MS	TOTES COMP#1MS	50	50	<2	N/A	Negative	N/A	AFTER ADDING 6N NAOH PH IS 9.5	N/A
Q3168-05MSD	TOTES COMP#1MSD	50	50	<2	N/A	Negative	N/A	AFTER ADDING 6N NAOH PH IS 9.5	N/A
Q3168-05	TOTES COMP#1	50	50	<2	N/A	Negative	N/A	AFTER ADDING 6N NAOH PH IS 9.5	N/A
Q3168-06	TOTES COMP#2	50	50	<2	N/A	Negative	N/A	AFTER ADDING 6N NAOH PH IS 9.5	N/A
Q3184-01	EFFLUENT	1	50	<2	N/A	Negative	N/A	AFTER ADDING 6N NAOH PH IS 9.5	N/A
Q3184-05	INFLUENT	1	50	<2	N/A	Negative	N/A	AFTER ADDING 6N NAOH PH IS 9.5	N/A



PB169837



SOP ID: M365.3 & SM4500-P E-19

SDG No: N/A Start Digest Date: 09/25/2025 Time: 10:40 Temp: 94 °C

Pippete ID : WC

Balance ID: N/A

Hood ID: HOOD#3 Digestion tube ID: M5595 Block Thermometer ID: WC-BLOCK#1

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

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

Standared Name	MLS USED	STD REF. # FROM LOG	
LCSW	0.5ML	WP112914	
MS/MSD SPIKE SOL.	0.5ML	WP112913	
PBW	50.ML	W3112	
RL CHECK	50.0ML	WP114897	
LOD/MDL	50.ML	WP114899	

Chemical Used	ML/SAMPLE USED	Lot Number
11N H2SO4	1ML	WP112615
AMMONIUM PERSULFATE	0.4g	W3035
pH Paper 0-14	N/A	W3215
N/A	N/A	N/A

LAB SAMPLE ID	CLIENT SAMPLE ID	Wt(g)/Vol(ml)	Comment
CAL1	CAL1	50.0ML	WP114888
CAL2	CAL2	50.0ML	WP114889
CAL3	CAL3	50.0ML	WP114891
CAL4	CAL4	50.0ML	WP114892
CAL5	CAL5	50.0ML	WP114893
CAL6	CAL6	50.0ML	WP114894
ICV	ICV	50.0ML	WP114895
ICB	ICB	50.0ML	W3112
CCV	ccv	50.0ML	WP114896
ССВ	ССВ	50.0ML	W3112

Extraction Conformance/Non-Conformance Comments:

N/A

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

75175



Lab Sample ID	Client Sample ID	Initial Vol (ml)	Final Vol (ml)	pH	Sulfide	Oxidizing	Nitrate/ Nitrite	Comment	Prep Pos
PB169837BL	PBW837	50	50	<2	N/A	N/A	N/A	N/A	N/A
PB169837BS	LCS837	50	50	<2	N/A	N/A	N/A	N/A	N/A
Q2893-09	MDL-WATER-03-QT3-2025	50	50	<2	N/A	N/A	N/A	N/A	N/A
Q3019-13	WP0925-PT-NUT2-WP	50	50	<2	N/A	N/A	N/A	N/A	N/A
Q3184-01	EFFLUENT	50	50	<2	N/A	N/A	N/A	N/A	N/A
Q3184-01DUP	EFFLUENTDUP	50	50	<2	N/A	N/A	N/A	N/A	N/A
Q3184-01MS	EFFLUENTMS	50	50	<2	N/A	N/A	N/A	N/A	N/A
Q3184-01MSD	EFFLUENTMSD	50	50	<2	N/A	N/A	N/A	N/A	N/A



Instrument ID: KONELAB

Review By	rub	ina	Review On	9/26/2025 9:56:07 AM			
Supervise By	Iwona		Supervise On	9/26/2025 10:41:04 AM			
SubDirectory	LB137308		Directory LB137308		Test	Ammonia	
STD. NAME	STD REF.#						
ICAL Standard		WP114913					
ICV Standard		WP114915					
CCV Standard		WP114914					
ICSA Standard		N/A					
CRI Standard		N/A					
LCS Standard		WP114786					
Chk Standard		WP114799,WP114133,\	WP114799,WP114133,WP113929,WP114132				

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	0.0PPM	0.0PPM	CAL1	09/25/25 12:29		rubina	ОК
2	0.1PPM	0.1PPM	CAL2	09/25/25 12:29		rubina	ОК
3	0.2PPM	0.2PPM	CAL3	09/25/25 12:29		rubina	ок
4	0.4PPM	0.4PPM	CAL4	09/25/25 12:29		rubina	ок
5	1.0PPM	1.0PPM	CAL5	09/25/25 12:29		rubina	ок
6	1.3PPM	1.3PPM	CAL6	09/25/25 12:29		rubina	ок
7	2.0PPM	2.0PPM	CAL7	09/25/25 12:29		rubina	ок
8	ICV1	ICV1	ICV	09/25/25 13:44		rubina	ок
9	ICB1	ICB1	ICB	09/25/25 13:44		rubina	ок
10	CCV1	CCV1	CCV	09/25/25 13:44		rubina	ок
11	CCB1	CCB1	ССВ	09/25/25 13:44		rubina	ок
12	RL	RL	LOQ	09/25/25 13:44		rubina	ок
13	PB169820BL	PB169820BL	MB	09/25/25 13:55		rubina	ок
14	PB169820BS	PB169820BS	LCS	09/25/25 13:55		rubina	ок
15	Q3168-05	TOTES COMP#1	SAM	09/25/25 13:55		rubina	ок
16	Q3168-05DUP	TOTES COMP#1DUP	DUP	09/25/25 13:55		rubina	ОК
17	Q3168-05MS	TOTES COMP#1MS	MS	09/25/25 13:55		rubina	ок
18	Q3168-05MSD	TOTES COMP#1MSD	MSD	09/25/25 13:55		rubina	ОК



Instrument ID: KONELAB

Review By	rubina		Review On	9/26/2025 9:56:07 AM				
Supervise By	lwo	na	Supervise On	9/26/2025 10:41:04 AM				
SubDirectory	LB137308		LB137308		ubDirectory LB137308		Test	Ammonia
STD. NAME	STD REF.#							
ICAL Standard		WP114913						
ICV Standard		WP114915						
CCV Standard		WP114914						
ICSA Standard		N/A						
CRI Standard		N/A						
LCS Standard		WP114786						
Chk Standard		WP114799,WP114133,WP113929,WP114132						

19	Q3168-06	TOTES COMP#2	SAM	09/25/25 14:03		rubina	ок
20	Q3184-01	EFFLUENT	SAM	09/25/25 14:03	NH3 is high	rubina	Dilution
21	Q3184-05	INFLUENT	SAM	09/25/25 14:03	NH3 is high	rubina	Dilution
22	CCV2	CCV2	CCV	09/25/25 14:03		rubina	ОК
23	CCB2	CCB2	ССВ	09/25/25 14:03		rubina	ОК
24	Q3184-01DL	EFFLUENTDL	SAM	09/25/25 14:32	5X For NH3	rubina	Confirms
25	Q3184-05DL	INFLUENTDL	SAM	09/25/25 14:32	5X For NH3	rubina	Confirms
26	CCV3	CCV3	CCV	09/25/25 14:32		rubina	ОК
27	CCB3	CCB3	ССВ	09/25/25 14:32		rubina	ок



Instrument ID: DO METER

Review By	rub	ina	Review On	9/30/2025 12:10:59 PM			
Supervise By	Iwona		Supervise On	9/30/2025 12:11:22 PM			
SubDirectory	LB137318		Test	BOD5			
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		WP114908,W3149,WP1	WP114908,W3149,WP112832,W3103,W3109,W3105,WP114910,WP114909,WP113878				

Sr#	Sampleld	ClientID	QcType	Date	Comment	Operator	Status
1	LB137318BL	LB137318BL	MB	09/25/25 10:00		rubina	ОК
2	LB137318BS	LB137318BS	LCS	09/25/25 10:00		rubina	ОК
3	Q3168-05	TOTES COMP#1	SAM	09/25/25 10:00		rubina	OK
4	Q3168-06	TOTES COMP#2	SAM	09/25/25 10:00		rubina	ОК
5	Q3180-02	Comp	SAM	09/25/25 10:00		rubina	ОК
6	Q3180-02DUP	CompDUP	DUP	09/25/25 10:00		rubina	ОК
7	Q3184-01	EFFLUENT	SAM	09/25/25 10:00	Due to bad matrix difference between highest and lowest results is >30% for	rubina	ОК
8	Q3184-05	INFLUENT	SAM	09/25/25 10:00	Due to bad matrix difference between highest and lowest results is >30% for	rubina	ОК
9	Q3202-01	SY-6	SAM	09/25/25 10:00		rubina	ОК
10	Q3202-03	SY-2R	SAM	09/25/25 10:00		rubina	ОК
11	Q3202-05	SY-2D	SAM	09/25/25 10:00		rubina	OK
12	Q3202-07	SY-5	SAM	09/25/25 10:00		rubina	OK
13	Q3202-09	SY-3DD	SAM	09/25/25 10:00		rubina	ОК
14	Q3202-11	SY-3D	SAM	09/25/25 10:00		rubina	ОК
15	Q3202-17	SY-3	SAM	09/25/25 10:00		rubina	OK



Instrument ID: SPECTROPHOTOMETER-1

Review By	lwc	ona	Review On	9/26/2025 11:51:48 AM			
Supervise By	JIGNESH		Supervise On	9/26/2025 12:12:51 PM			
SubDirectory	LB137319		Test	Phosphorus-Ortho			
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		WP114894,WP114893,\	WP114894,WP114893,WP114892,WP114891,WP114889,WP114888,WP114896,WP112831,WP114919,WP113378,V				

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	CAL1	CAL1	CAL	09/25/25 12:10		lwona	ОК
2	CAL2	CAL2	CAL	09/25/25 12:10		lwona	ОК
3	CAL3	CAL3	CAL	09/25/25 12:11		lwona	ОК
4	CAL4	CAL4	CAL	09/25/25 12:11		lwona	ОК
5	CAL5	CAL5	CAL	09/25/25 12:12		lwona	ОК
6	CAL6	CAL6	CAL	09/25/25 12:12		lwona	ОК
7	ICV	ICV	ICV	09/25/25 12:13		lwona	ОК
8	ICB	ICB	ICB	09/25/25 12:13		lwona	ОК
9	CCV1	CCV1	CCV	09/25/25 12:14		lwona	ОК
10	CCB1	CCB1	ССВ	09/25/25 12:14		lwona	ОК
11	RL Check	RL Check	RL	09/25/25 12:15		lwona	ОК
12	LB137319BL	LB137319BL	MB	09/25/25 12:15		lwona	ОК
13	LB137319BS	LB137319BS	LCS	09/25/25 12:16		lwona	ОК
14	Q2893-09	MDL-WATER-03-QT3	SAM	09/25/25 12:16		lwona	ОК
15	Q3019-12	WP0925-PT-NUT1-W	SAM	09/25/25 12:17		lwona	ОК
16	Q3184-01	EFFLUENT	SAM	09/25/25 12:17		lwona	ОК
17	Q3184-01DUP	EFFLUENTDUP	DUP	09/25/25 12:18		lwona	ОК
18	Q3184-01MS	EFFLUENTMS	MS	09/25/25 12:18		lwona	ОК



Instrument ID: SPECTROPHOTOMETER-1

Review By	lwona	Review On	9/26/2025 11:51:48 AM				
Supervise By	JIGNESI	H Supervise On	9/26/2025 12:12:51 PM				
SubDirectory	LB13731	9 Test	Phosphorus-Ortho				
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	N/A					
Chk Standard	WP11	WP114894,WP114893,WP114892,WP114891,WP114889,WP114888,WP114896,WP112831,WP114919,WP113378,V					

19	Q3184-01MSD	EFFLUENTMSD	MSD	09/25/25 12:19	lwona	ОК
20	Q3019-12DL	WP0925-PT-NUT1-W	SAM	09/25/25 12:19	lwona	ОК
21	CCV2	CCV2	CCV	09/25/25 12:20	lwona	ОК
22	CCB2	CCB2	ССВ	09/25/25 12:20	lwona	ОК



Instrument ID: SPECTROPHOTOMETER-1

Review By	Review By Iwona		Review On	9/26/2025 12:06:43 PM					
Supervise By	rise By JIGNESH		Supervise On	9/26/2025 12:13:18 PM					
SubDirectory	LB	137320	Test	Phosphorus-Total					
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		WP114894,WP114893,WP114892,WP114891,WP114889,WP114888,WP114896,WP112831,WP114919,WP113378,V							

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	CAL1	CAL1	CAL	09/25/25 13:30		lwona	ОК
2	CAL2	CAL2	CAL	09/25/25 13:30		Iwona	ОК
3	CAL3	CAL3	CAL	09/25/25 13:31		lwona	ОК
4	CAL4	CAL4	CAL	09/25/25 13:31		lwona	ОК
5	CAL5	CAL5	CAL	09/25/25 13:32		Iwona	ОК
6	CAL6	CAL6	CAL	09/25/25 13:32		lwona	ок
7	ICV	ICV	ICV	09/25/25 13:33		Iwona	ок
8	ICB	ICB	ICB	09/25/25 13:33		lwona	ок
9	CCV1	CCV1	CCV	09/25/25 13:34		Iwona	ок
10	CCB1	CCB1	ССВ	09/25/25 13:34		Iwona	ок
11	RL Check	RL Check	RL	09/25/25 13:35		lwona	ок
12	PB169837BL	PB169837BL	MB	09/25/25 13:35		Iwona	ок
13	PB169837BS	PB169837BS	LCS	09/25/25 13:36		Iwona	ок
14	Q2893-09	MDL-WATER-03-QT3	SAM	09/25/25 13:36		lwona	ок
15	Q3019-13	WP0925-PT-NUT2-W	SAM	09/25/25 13:37		Iwona	ок
16	Q3184-01	EFFLUENT	SAM	09/25/25 13:37		Iwona	ок
17	Q3184-01DUP	EFFLUENTDUP	DUP	09/25/25 13:38		lwona	ОК
18	Q3184-01MS	EFFLUENTMS	MS	09/25/25 13:38		lwona	ОК



Instrument ID: SPECTROPHOTOMETER-1

Review By	riew By Iwona		Review On	9/26/2025 12:06:43 PM					
Supervise By	JIGNESH		Supervise On	9/26/2025 12:13:18 PM					
SubDirectory	LB1	37320	Test	Phosphorus-Total					
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		WP114894,WP114893,WP114892,WP114891,WP114889,WP114888,WP114896,WP112831,WP114919,WP113378,V							

19	Q3184-01MSD	EFFLUENTMSD	MSD	09/25/25 13:39	lwona	ОК
20	Q3019-13DL	WP0925-PT-NUT2-W	SAM	09/25/25 13:39	lwona	ОК
21	CCV2	CCV2	CCV	09/25/25 13:40	lwona	ОК
22	CCB2	CCB2	ССВ	09/25/25 13:40	lwona	ОК



Instrument ID: WC SC-3

Review By JIGNES		NESH	Review On	9/26/2025 10:55:24 AM				
Supervise By	Supervise By Iwona		Supervise On	9/26/2025 1:38:03 PM				
SubDirectory	LB′	137326	Test	Oil and Grease				
STD. NAME		STD REF.#						
ICAL Standard		N/A						
ICV Standard		N/A						
CCV Standard		N/A						
ICSA Standard		N/A						
CRI Standard		N/A						
LCS Standard		N/A						
Chk Standard	W3204,M6069,EP2636,WP112782,NA,NA,WP112783,N/A,WP112784							

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	LB137326BL	LB137326BL	МВ	09/26/25 09:00		JIGNESH	ок
2	LB137326BS	LB137326BS	LCS	09/26/25 09:00		JIGNESH	ок
3	Q3164-01	DA-1	SAM	09/26/25 09:00		JIGNESH	ОК
4	Q3164-02	DA-2	SAM	09/26/25 09:00		JIGNESH	ОК
5	Q3164-03	DA-3	SAM	09/26/25 09:00		JIGNESH	ок
6	Q3184-01	EFFLUENT	SAM	09/26/25 09:00		JIGNESH	ОК
7	Q3184-02	Q3184-01MS	MS	09/26/25 09:00		JIGNESH	ОК
8	Q3184-03	Q3184-01MSD	MSD	09/26/25 09:00		JIGNESH	ок



Instrument ID: WC SC-3

Review By JIGNESH		Review On	9/26/2025 12:50:19 PM	
Supervise By	Supervise By Iwona		Supervise On	9/26/2025 1:36:49 PM
SubDirectory	LB′	137328	Test	TSS
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	LB137328BL	LB137328BL	МВ	09/26/25 09:30		JIGNESH	ок
2	LB137328BS	LB137328BS	LCS	09/26/25 09:30	55 mg w3186 + 100 ml w3112	JIGNESH	OK
3	Q3168-05	TOTES COMP#1	SAM	09/26/25 09:30		JIGNESH	ок
4	Q3168-06	TOTES COMP#2	SAM	09/26/25 09:30		JIGNESH	ок
5	Q3180-02	Comp	SAM	09/26/25 09:30		JIGNESH	ок
6	Q3180-02DUP	CompDUP	DUP	09/26/25 09:30		JIGNESH	ОК
7	Q3184-01	EFFLUENT	SAM	09/26/25 09:30		JIGNESH	ОК
8	Q3184-04	AEIRATION	SAM	09/26/25 09:30		JIGNESH	ОК



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8900, Fax: 908 789 8922

Prep Standard - Chemical Standard Summary

Order ID: Q3184

Test: Ammonia,BOD5,Oil and Grease,Phosphorus-Ortho,Phosphorus-Total,TSS

Prepbatch ID: PB169820,PB169837,

Sequence ID/Qc Batch ID: LB137308,LB137318,LB137319,LB137320,LB137326,LB137328,

Standard ID:

EP2636,WP112611,WP112612,WP112615,WP112782,WP112783,WP112784,WP112828,WP112831,WP112832,WP112913,WP112914,WP113112,WP113113,WP113378,WP113878,WP113885,WP113886,WP113887,WP113929,WP114132,WP114133,WP114785,WP114786,WP114799,WP114888,WP114889,WP114891,WP114892,WP114893,WP114894,WP114895,WP114896,WP114897,WP114898,WP114899,WP114909,WP114910,WP114913,WP114914,WP114915,WP114918,WP114919,

Chemical ID:

E3875,E3917,M6041,M6069,M6151,W2306,W2650,W2653,W2654,W2663,W2664,W2666,W2788,W2817,W2871,W30 09,W3035,W3074,W3082,W3103,W3105,W3109,W3112,W3113,W3132,W3133,W3149,W3155,W3195,W3196,W3198,W3201,W3204,W3206,W3212,W3215,W3222,W3233,



<u>ID</u>

153

NAME

Ammonia Stock Std. (1000 ppm)

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Extractions STANDARD PREPARATION LOG

Recipe		NO	Duan Data	Expiration	Prepared	CastalD	DinettelD	Supervised By	
<u>ID</u>	<u>NAME</u>	<u>NO.</u>	Prep Date	<u>Date</u>	<u>By</u>	<u>ScaleID</u>	<u>PipetteID</u>	Evelyn Huang	
3923	Baked Sodium Sulfate	EP2636	08/27/2025	01/28/2026	Riteshkumar	Extraction SC	None		
					Patel	ALE_2		08/27/2025	
FROM	FROM 4000.00000gram of E3875 = Final Quantity: 4000.000 gram (EX-SC-2)								

		·			T	
Recipe			Expiration	Prepared		Supervised By

<u>Date</u>

10/07/2025

By

Rubina Mughal WETCHEM_S

<u>ScaleID</u>

CALE_8 (WC

SC-7)

PipetteID

None

Iwona Zarych

04/07/2025

Prep Date

WP112611 04/07/2025

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

NO.



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Wet Chemistry STANDARD PREPARATION LOG

Recipe ID	NAME_	NO.	Prep Date	Expiration Date	Prepared By	<u>ScaleID</u>	<u>PipetteID</u>	Supervised By Iwona Zarych
1895	Ammonia Stock Std, 1000PPM-SS	<u>WP112612</u>	04/07/2025	10/07/2025	Rubina Mughal	WETCHEM_S CALE_8 (WC	None	04/07/2025
						SC-7)		

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

Recipe				Expiration	<u>Prepared</u>			Supervised By
<u>ID</u>	<u>NAME</u>	NO.	Prep Date	<u>Date</u>	<u>By</u>	<u>ScaleID</u>	<u>PipetteID</u>	Iwona Zarych
1211	11 N sulfuric acid	WP112615	04/03/2025	10/07/2025	Niha Farheen	None	None	·
					Shaik			04/07/2025

FROM 306.00000ml of M6041 + 694.00000ml of W3112 = Final Quantity: 1000.000 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
229	1:1 HCL	WP112782	04/22/2025	08/18/2025	Jignesh Parikh	None	None	,
								04/22/2025

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

Recipe				<u>Expiration</u>	<u>Prepared</u>			Supervised By
<u>ID</u>	NAME	NO.	Prep Date	<u>Date</u>	<u>By</u>	<u>ScaleID</u>	<u>PipetteID</u>	Iwona Zarych
2470	1664A SPIKING SOLN	WP112783	04/22/2025	10/03/2025	Jignesh Parikh	WETCHEM_S	None	
						CALE_8 (WC		04/22/2025

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



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Wet Chemistry STANDARD PREPARATION LOG

Recip				Expiration	Prepared		D: # ID	Supervised By
<u>ID</u>	<u>NAME</u>	<u>NO.</u>	Prep Date	<u>Date</u>	<u>By</u>	<u>ScaleID</u>	<u>PipetteID</u>	Iwona Zarych
3374	1664A QCS spiking solution-SS	WP112784	04/22/2025	10/03/2025	Jignesh Parikh	WETCHEM S	None	,
						CALE_8 (WC		04/22/2025
FROI	1000.00000ml of E3917 + 4.00000gr	am of W300)9 + 4.00000g	ram of W3082	= Final Quantit	SC-7) y: 1000.000 ml		

<u>IOM</u> 1000.00000ml of E3917 + 4.00000gram of W3009 + 4.000	00gram of W3082 = Final Quantity: 1000.000 ml
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Recipe				Expiration	Prepared			Supervised By
<u>ID</u>	NAME	<u>NO.</u>	Prep Date	<u>Date</u>	<u>By</u>	<u>ScaleID</u>	<u>PipetteID</u>	Iwona Zarych
1597	0.04 N H2SO4	WP112828	04/25/2025	10/25/2025	Rubina Mughal	None	WETCHEM_F	
							IPETTE_3	04/25/2025

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



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Wet Chemistry STANDARD PREPARATION LOG

Recipe ID 126	NAME 5N sulfuric acid	NO. WP112831	Prep Date 04/25/2025		<u>Prepared</u> <u>By</u> Rubina Mughal	ScaleID None	PipetteID None	Supervised By Iwona Zarych 04/25/2025
EDOM.	140 00000ml of M6041 + 860 00000	nl of \\/3113	- Final Oua	ntity: 1 000 I				0 1/20/2020

FROM	140.00000ml of M6041 + 860.00000ml of W3112 = Final Quantity: 1.000 L
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Recipe				Expiration	Prepared			Supervised By
<u>ID</u>	<u>NAME</u>	<u>NO.</u>	Prep Date	<u>Date</u>	<u>By</u>	<u>ScaleID</u>	<u>PipetteID</u>	Iwona Zarych
1841	Sulfuric Acid, 1N	WP112832	04/25/2025	10/25/2025	Rubina Mughal	None	WETCHEM_F	-
							IPETTE_3	04/25/2025

FROM 2.80000ml of M6041 + 97.20000ml of W3112 = Final Quantity: 100.000 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>PipettelD</u>	Supervised By Jignesh Parikh
115	Phosphate Stock Std. (50 ppm)	WP112913	05/01/2025	11/01/2025	Iwona Zarych	WETCHEM_S	None	3
						CALE_5 (WC		05/06/2025
FROM	0.11000gram of W3198 + 500.00000	ml of W3112	2 = Final Qua	ntitv: 500.000	ml	SC-5)		

FROIN	0.11000graff of W3190 + 300.00000fff of W3112 = 1 ffat Quantity. 300.000 fff

Recipe				Expiration	Prepared			Supervised By
<u>ID</u>	<u>NAME</u>	NO.	Prep Date	<u>Date</u>	<u>By</u>	<u>ScaleID</u>	<u>PipetteID</u>	Jignesh Parikh
2790	Phosphate Stock std, 50PPM-SS	WP112914	05/01/2025	11/01/2025	Iwona Zarych	WETCHEM_S	None	
						CALE_5 (WC		05/06/2025

FROM 0.11000gram of W3206 + 500.00000ml of W3112 = Final Quantity: 500.000 ml



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Wet Chemistry STANDARD PREPARATION LOG

Recipe ID	<u>NAME</u>	NO.	Prep Date	Expiration Date	Prepared By	<u>ScaleID</u>	<u>PipetteID</u>	Supervised By Jignesh Parikh		
648	Ammonium molybdate solution	WP113112	05/16/2025	11/16/2025	Iwona Zarych	WETCHEM_S	None			
						CALE_5 (WC		05/16/2025		
EDOM	SC-5) SC-5)									

FROM 20.00000gram of W2664 + 480.00000ml of W3112 = Final Quantity: 500.000	

Recipe				Expiration	Prepared			Supervised By
<u>ID</u>	<u>NAME</u>	<u>NO.</u>	Prep Date	<u>Date</u>	<u>By</u>	<u>ScaleID</u>	<u>PipetteID</u>	Jignesh Parikh
588	Potassium Antimonyl Tartrate	WP113113	05/16/2025	11/16/2025	Iwona Zarych	WETCHEM_S	None	_
						CALE_5 (WC		05/16/2025

FROM 1.37150gram of W2306 + 500.00000ml of W3112 = Final Quantity: 500.000 ml



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Wet Chemistry STANDARD PREPARATION LOG

Recipe ID	NAME.	NO.	Prep Date	Expiration Date	Prepared By	<u>ScaleID</u>	<u>PipetteID</u>	Supervised By Jignesh Parikh
1213	Phenolphthalein indicator	WP113378	06/04/2025	12/04/2025	Iwona Zarych	WETCHEM_S		
						CALE_5 (WC		06/05/2025
	0.40000 (14/0050 - 50.00000	1 (14/0700	. 50 00000			SC-5)		

ROM 0.10000gram of W2650 + 50.00000ml of W2788 + 50.00000ml of W3112 = Final Quantity: 100.000 ml
--

Recipe				Expiration	Prepared			Supervised By
<u>ID</u>	<u>NAME</u>	<u>NO.</u>	Prep Date	<u>Date</u>	<u>By</u>	<u>ScaleID</u>	<u>PipetteID</u>	Jignesh Parikh
1571	Sodium hydroxide, 1N	WP113878	07/09/2025	12/31/2025	Iwona Zarych	WETCHEM_S	None	
						CALE_7 (WC		07/09/2025

FROM 4.00000gram of W3113 + 96.00000ml of W3112 = Final Quantity: 100.000 ml





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Wet Chemistry STANDARD PREPARATION LOG

Recipe ID	<u>NAME</u>	NO.	Prep Date	Expiration Date	Prepared By	<u>ScaleID</u>	<u>PipetteID</u>	Supervised By Iwona Zarych		
1796	NaOH, 0.1N	WP113885	07/10/2025	12/31/2025	Rubina Mughal	_	None	Ţ		
						CALE_8 (WC		07/10/2025		
FROM	FROM 4.00000gram of W3113 + 996.00000ml of W3112 = Final Quantity: 1000.000 ml									

FROM 4.00000gram of	V3113 + 996.00000ml of VV3112	= Final Quantity: 1000.000 mi
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Recipe				Expiration	<u>Prepared</u>			Supervised By
<u>ID</u>	<u>NAME</u>	<u>NO.</u>	Prep Date	<u>Date</u>	<u>By</u>	<u>ScaleID</u>	<u>PipetteID</u>	Iwona Zarych
1494	BORATE BUFFER	WP113886	07/10/2025	12/31/2025	Rubina Mughal	WETCHEM_S	None	
						CALE_8 (WC		07/10/2025

0.90250L of W3112 + 9.50000gram of W3201 + 88.00000ml of WP113885 = Final Quantity: 1.000 L **FROM**



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Wet Chemistry STANDARD PREPARATION LOG

Recipe ID	NAME.	NO.	Prep Date	Expiration Date	Prepared By	<u>ScaleID</u>	<u>PipetteID</u>	Supervised By Iwona Zarych	
1471	NaOH Solution, 6N	WP113887	07/10/2025	12/31/2025	Rubina Mughal	WETCHEM_S	None		
						CALE_8 (WC		07/10/2025	
FDOM	SC-7)								

<u>FROM</u>	240.00000gram of W3113 +	760.00000ml of W3112	= Final Quantity: 1000.000 ml	

Recipe				Expiration	<u>Prepared</u>			Supervised By
<u>ID</u>	<u>NAME</u>	<u>NO.</u>	Prep Date	<u>Date</u>	<u>By</u>	<u>ScaleID</u>	<u>PipetteID</u>	Iwona Zarych
290	Phenol reagent for Ammonia	WP113929	07/14/2025	12/31/2025	Rubina Mughal	WETCHEM_S	None	
						CALE_8 (WC		07/15/2025

FROM 3.20000gram of W3113 + 8.30000gram of W2663 + 88.80000ml of W3112 = Final Quantity: 100.000 ml



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Wet Chemistry STANDARD PREPARATION LOG

Recipe ID	NAME_	NO.	Prep Date	Expiration Date	Prepared By	<u>ScaleID</u>	<u>PipetteID</u>	Supervised By Iwona Zarych
635	EDTA BUFFER FOR AMMONIA	WP114132	07/31/2025	12/31/2025	Rubina Mughal	WETCHEM_S	None	
						CALE_8 (WC SC-7)		07/31/2025

FROM 5.50000gram of W3113 + 50.00000gram of W3132 + 950.00000ml of W3112 = Final Quantity: 1000.000 ml	l
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Recipe				Expiration	<u>Prepared</u>			Supervised By
<u>ID</u>	<u>NAME</u>	NO.	Prep Date	<u>Date</u>	<u>By</u>	<u>ScaleID</u>	<u>PipetteID</u>	Iwona Zarych
289	Sodium Hypochlorite for Ammonia	WP114133	07/31/2025	12/31/2025	Rubina Mughal	None	None	,
								08/04/2025

FROM 50.00000ml of W3112 + 50.00000ml of W3222 = Final Quantity: 100.000 ml



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Wet Chemistry STANDARD PREPARATION LOG

Recipe ID	<u>NAME</u>	NO.	Prep Date	Expiration Date	Prepared By	<u>ScaleID</u>	<u>PipetteID</u>	Supervised By Iwona Zarych
1322	Ammonia Intermediate Std, 50PPM	<u>WP114785</u>	09/16/2025	10/07/2025	Rubina Mughal	None	WETCHEM_F IPETTE_3	09/17/2025
EDOM	05 00000ml of W3112 ± 5 00000ml of	f \MD112611	- Final Oua	ntity: 100 000	ml		(WC)	

<u>FROM</u>	95.00000ml of W3112 + 5.00000ml of WP112611 = Final Quantity: 100.000 ml
FRUIVI	95.00000111 01 W3 112 + 5.00000111 01 WF 112011 - 1 IIIal Quantity. 100.000 1111

Recipe ID	<u>NAME</u>	<u>NO.</u>	Prep Date	Expiration Date	Prepared By	<u>ScaleID</u>	<u>PipetteID</u>	Supervised By Iwona Zarych
1639	Ammonia Intermediate Std-Second source, 50PPM	<u>WP114786</u>	09/16/2025	10/07/2025	Rubina Mughal	None	WETCHEM_F IPETTE_3 (WC)	09/17/2025

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



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Wet Chemistry STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	<u>ScaleID</u>	<u>PipetteID</u>	Supervised By Jignesh Parikh
740	sodium nitroferricyanide for ammonia	<u>WP114799</u>	09/17/2025	10/17/2025	Rubina Mughal	WETCHEM_S CALE_5 (WC	None	09/18/2025
FROM	0 05000gram of W2666 + 99 95000g	nl of W3112	= Final Quan	ntity: 100 000 r	nl	SC-5)		

FROM	0.05000gram of w2666 + 99.95000m of w3112 = Final Quantity. 100.000 miles

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>	Jignesh Parikh
122	calibration std. 0 ppm	WP114888	09/25/2025	10/02/2025	Iwona Zarych	None	None	3 3 3
								09/26/2025

FROM 100.00000ml of W3112 = Final Quantity: 100.000 ml



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Wet Chemistry STANDARD PREPARATION LOG

Recipe ID	<u>NAME</u>	NO.	Prep Date	Expiration Date	Prepared By	<u>ScaleID</u>	<u>PipetteID</u>	Supervised By Jignesh Parikh
121	calibration std. phosphate 0.05 ppm	<u>WP114889</u>	09/25/2025	10/02/2025	lwona Zarych	None	WETCHEM_F IPETTE_3	09/26/2025
	00.00000 51410440 0.40000	514/D 440046		111 100 000			(VVC)	

FROM	99.90000ml of W3112 + 0.10000ml of WP112913 = Final Quantity: 100.000 ml
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Recipe				Expiration	<u>Prepared</u>			Supervised By
<u>ID</u>	<u>NAME</u>	<u>NO.</u>	Prep Date	<u>Date</u>	<u>By</u>	<u>ScaleID</u>	<u>PipetteID</u>	Jignesh Parikh
120	calibration std. phosphate 0.1 ppm	WP114891	09/25/2025	10/02/2025	Iwona Zarych	None	WETCHEM_F	
							IPETTE_3	09/26/2025

FROM 99.80000ml of W3112 + 0.20000ml of WP112913 = Final Quantity: 100.000 ml



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Wet Chemistry STANDARD PREPARATION LOG

Recipe ID	NAME.	NO.	Prep Date	Expiration Date	Prepared By	<u>ScaleID</u>	<u>PipettelD</u>	Supervised By Jignesh Parikh		
119	calibration std. phosphate 0.3 ppm	<u>WP114892</u>	09/25/2025	10/02/2025	lwona Zarych	None	WETCHEM_F IPETTE_3	09/26/2025		
FROM	99.40000ml of W3112 + 0.60000ml of WP112913 = Final Quantity: 100.000 ml (WC)									

T T T T T T T T T T T T T T T T T T T		

Recipe				Expiration	<u>Prepared</u>			Supervised By
<u>ID</u>	<u>NAME</u>	<u>NO.</u>	Prep Date	<u>Date</u>	<u>By</u>	<u>ScaleID</u>	<u>PipetteID</u>	Jignesh Parikh
118	calibration std. phosphate 0.5 ppm	WP114893	09/25/2025	10/02/2025	Iwona Zarych	None	WETCHEM_F	'
							IPETTE_3	09/26/2025

FROM 99.00000ml of W3112 + 1.00000ml of WP112913 = Final Quantity: 100.000 ml



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Wet Chemistry STANDARD PREPARATION LOG

Recipe ID	<u>NAME</u>	NO.	Prep Date	Expiration Date	Prepared By	<u>ScaleID</u>	<u>PipetteID</u>	Supervised By Jignesh Parikh		
117	calibration std. phosphate 1 ppm	WP114894	09/25/2025	10/02/2025	lwona Zarych	None	WETCHEM_F IPETTE_3	09/26/2025		
FROM	(WC)									

Recipe				Expiration	Prepared			Supervised By
<u>ID</u>	<u>NAME</u>	<u>NO.</u>	Prep Date	<u>Date</u>	<u>By</u>	<u>ScaleID</u>	<u>PipetteID</u>	Jignesh Parikh
3805	Phosphate ICV-LCS Std	WP114895	09/25/2025	10/02/2025	Iwona Zarych	None	WETCHEM_F	
							IPETTE_3	09/26/2025

FROM 99.00000ml of W3112 + 1.00000ml of WP112914 = Final Quantity: 100.000 ml



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Wet Chemistry STANDARD PREPARATION LOG

Recipe ID	NAME_	NO.	Prep Date	Expiration Date	Prepared By	<u>ScaleID</u>	<u>PipetteID</u>	Supervised By Jignesh Parikh		
124	phosphate CCV std.	<u>WP114896</u>	09/25/2025	10/02/2025	lwona Zarych	None	WETCHEM_F IPETTE_3	09/26/2025		
FROM	(WC)									

<u>FROM</u>	99.00000ml of vv3112 + 1.00000ml of vvP112913 = Final Quantity: 100.000	mı

Recipe				Expiration	Prepared			Supervised By
<u>ID</u>	NAME	<u>NO.</u>	Prep Date	<u>Date</u>	<u>By</u>	<u>ScaleID</u>	<u>PipetteID</u>	Jignesh Parikh
4212	Phosphate RL CHECK	WP114897	09/25/2025	10/02/2025	Iwona Zarych	None	WETCHEM_F	
							IPETTE_3	09/26/2025

FROM 99.80000ml of W3112 + 0.20000ml of WP112913 = Final Quantity: 100.000 ml



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Wet Chemistry STANDARD PREPARATION LOG

Recipe ID	NAME.	NO.	Prep Date	Expiration Date	Prepared By	<u>ScaleID</u>	<u>PipettelD</u>	Supervised By Jignesh Parikh		
3907	Phosphate MDL-LOD-LOQ spike solution, 5ppm	<u>WP114898</u>	09/25/2025	10/02/2025	lwona Zarych	None	WETCHEM_F IPETTE_3	09/26/2025		
FROM	FROM 9.00000ml of W3112 + 1.00000ml of WP112913 = Final Quantity: 10.000 ml									

ROM 9.00000ml of W3112 + 1.00000ml of WP112913 = Final Quantity: 10.000	ml
--	----

Recipe ID	NAME	<u>NO.</u>	Prep Date	Expiration Date	Prepared By	<u>ScaleID</u>	<u>PipetteID</u>	Supervised By Jignesh Parikh
3814	Phosphate LOD-MDL Std 0.025ppm	<u>WP114899</u>	09/25/2025	10/02/2025	lwona Zarych	None	WETCHEM_F IPETTE_3 (WC)	09/26/2025

99.50000ml of W3112 + 0.50000ml of WP114898 = Final Quantity: 100.000 ml **FROM**



Alliance TECHNICAL GROUP

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Wet Chemistry STANDARD PREPARATION LOG

Recipe ID	<u>NAME</u>	NO.	Prep Date	Expiration Date	Prepared By	<u>ScaleID</u>	<u>PipetteID</u>	Supervised By Iwona Zarych
127	BOD Dilution fluid	WP114908	09/25/2025	09/26/2025	Rubina Mughal	None	None	IWONG Zaryon
								09/26/2025

FROM	18.00000L of W3112 + 3.00000PILLOW of W3233 = Final Quantity: 18.000 L
-------------	--

Recipe ID	<u>NAME</u>	<u>NO.</u>	Prep Date	Expiration Date	Prepared By	<u>ScaleID</u>	<u>PipettelD</u>	Supervised By Iwona Zarych
129	Glutamic acid-glucose mix for BOD	<u>WP114909</u>	09/25/2025	09/26/2025	Rubina Mughal	WETCHEM_S CALE_7 (WC	None	09/26/2025

FROM 0.15000gram of W2653 + 0.15000gram of W2654 + 1000.00000ml of W3112 = Final Quantity: 1000.000 ml



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Wet Chemistry STANDARD PREPARATION LOG

Recipe ID	<u>NAME</u>	NO.	Prep Date	Expiration Date	Prepared By	<u>ScaleID</u>	<u>PipetteID</u>	Supervised By Iwona Zarych
128	polyseed seed control	WP114910	09/25/2025	09/26/2025	Rubina Mughal	None	None	-
								09/26/2025
	4 00000000 0000 000000	000	D444000 - F:	nal Overtitus 2	00.000!			

FROM	1.00000PILLOW of W3212 + 300.00000ml of WP114908 = Final Quantity: 300.000 ml

Recipe ID	<u>NAME</u>	<u>NO.</u>	Prep Date	Expiration Date	Prepared By	<u>ScaleID</u>	<u>PipetteID</u>	Supervised By Iwona Zarych
275	Ammonia Calibration Std. (2 ppm)	<u>WP114913</u>	09/25/2025	09/26/2025	Rubina Mughal	None	WETCHEM_F IPETTE_3 (WC)	,

FROM 48.00000ml of W3112 + 2.00000ml of WP114785 = Final Quantity: 50.000 ml



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Wet Chemistry STANDARD PREPARATION LOG

Recipe				Expiration	Prepared			Supervised By
<u>ID</u>	NAME	NO.	Prep Date	<u>Date</u>	<u>By</u>	<u>ScaleID</u>	<u>PipetteID</u>	lwona Zarych
285	Ammonia CCV Std. (1 ppm)	WP114914	09/25/2025	09/26/2025	Rubina Mughal	None	WETCHEM_F	•
							IPETTE_3	09/26/2025
FROM 49.00000ml of W3112 + 1.00000ml of WP114785 = Final Quantity: 50.000 ml								

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
286	Ammonia ICV Std. (1 ppm)	WP114915	09/25/2025	09/26/2025	Rubina Mughal	None	WETCHEM_F	
							IPETTE_3	09/26/2025

FROM 49.00000ml of W3112 + 1.00000ml of WP114786 = Final Quantity: 50.000 ml



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Wet Chemistry STANDARD PREPARATION LOG

Recipe ID	NAME_	NO.	Prep Date	Expiration Date	Prepared By	<u>ScaleID</u>	<u>PipetteID</u>	Supervised By Jignesh Parikh
590	Ascorbic Acid	WP114918	09/25/2025	09/26/2025	Iwona Zarych	WETCHEM_S CALE 5 (WC		00/26/2025
						SC-5)		09/26/2025
FROM	0.52800gram of W3074 + 30.00000m	nl of W3112	= Final Quan	ntity: 30.000 m	I	00 0)		

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>	Jignesh Parikh
658	Combined reagent	WP114919	09/25/2025	09/26/2025	Iwona Zarych	None	Glass	3
							Pipette-A	09/26/2025

FROM 15.00000ml of WP113112 + 30.00000ml of WP114918 + 5.00000ml of WP113113 + 50.00000ml of WP112831 = Final Quantity: 100.000 ml



Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	PC19631-100 / SODIUM SULFATE, ANHYDROUS, PEST GRADE, 1	417203	01/28/2026	07/28/2025 / RUPESH	01/29/2025 / Rajesh	E3875
Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9254-03 / Acetone, Ultra Resi (cs/4x4L)	24H2762008	10/03/2025	04/03/2025 / Rajesh	03/31/2025 / Rajesh	E3917
Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9673-33 / Sulfuric Acid, Instra-Analyzed (cs/6c2.5L)	23D2462010	03/20/2028	08/16/2024 / mohan	08/16/2024 / mohan	M6041
Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date /	Chemtech Lot #
PCI Scientific Supply, Inc.	140440 / TEST PAPERS,PH,0-2.5,.2SENSI, 100PK	80A0441	02/29/2028	09/03/2024 / jignesh	08/19/2024 / Jaswal	M6069
Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date /	Chemtech Lot #
Seidler Chemical	BA-9530-33 / Hydrochloric Acid, Instra-Analyzed (cs/6x2.5L)	22G2862015	02/17/2026	02/18/2025 / Sagar	01/15/2025 / Sagar	M6151
Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	A1561-500GM / POTASSIUM ANTIMONY TARTRATE TRIHYDRATE, 500G	2GH0057	12/11/2027	12/11/2017 / apatel	12/11/2017 / apatel	W2306



Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	J2870-1 / PHENOLPHTHALEIN, INDICATOR F/TITRATION, 500G	0000235350	06/04/2025	01/31/2020 / AMANDEEP	01/20/2020 / apatel	W2650
Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	AC156212500 / GLUTAMIC ACID BIOCHEM REG, 250G	A0405990	01/24/2030	01/24/2020 / apatel	01/24/2020 / apatel	W2653
Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	D16-500 / DEXTROSE ANHYDROUS ACS REAGENT, 500G(New)	186122A	01/24/2030	01/24/2020 / apatel	01/24/2020 / apatel	W2654
Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	P1060-10 / PHENOL, ACS, 500G	2HD0179	01/27/2030	01/27/2020 / apatel	01/27/2020 / apatel	W2663
Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date /	Chemtech Lot #
PCI Scientific Supply, Inc.	J07716-1 / Ammonium Molybdate 500G	0000234410	02/11/2026	02/10/2020 / AMANDEEP	01/31/2020 / apatel	W2664
Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	87683 / Sodium Nitroferricyanide 250g	W12F013	02/10/2030	02/10/2020 / apatel	02/10/2020 / apatel	W2666



Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	PC16721-3 / Isopropanol, 99%	C20F23007	06/30/2025	12/30/2020 / apatel	12/30/2020 / apatel	W2788
Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	A12244 / Stearic acid, 98%, 100 g	U20E006	04/02/2026	04/02/2021 / apatel	04/02/2021 / apatel	W2817
Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	H223-57 / Hexadecane, 99.0%	0000266903	05/04/2027	09/07/2021 / apatel	08/26/2021 / apatel	W2871
Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	H223-57 / Hexadecane,	SHBP8192	02/27/2028	02/27/2023 /	02/27/2023 /	W3009
	99.0%			lwona	lwona	
Supplier	99.0% ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date /	Chemtech Lot #
Supplier PCI Scientific Supply, Inc.		Lot # MKCR9319		Date Opened /	Received Date /	
PCI Scientific	ItemCode / ItemName BDH0214-500G / Ammonium Persulfate		Date	Date Opened / Opened By	Received Date / Received By	Lot #



Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	A12244 / Stearic acid, 98%, 100 g	U23E020	02/26/2029	02/26/2024 / Iwona	02/26/2024 / Iwona	W3082
Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	4620-32 / MANGANOUS SULFATE SOLUTION-364	2403J02	03/31/2026	04/22/2024 / Iwona	04/22/2024 / Iwona	W3103
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 #
PCI Scientific Supply, Inc.	AL04100-4 / Alkaline lodide Azide, 1 L	1405D67	04/30/2026	05/23/2024 / lwona	05/23/2024 / Iwona	W3109
Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	DIW / DI Water	Daily Lab-Certified	07/03/2029	07/03/2024 / lwona	07/03/2024 / Iwona	W3112
Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific	PC19510-7 / Sodium Hydroxide Pellets 12 Kg	23B1556310	12/31/2025	07/08/2024 /	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.	PC05050-1 / EDTA, disodium salt, dihydrate 1 lb	2ND0156	07/10/2026	07/26/2024 / Iwona	07/26/2024 / Iwona	W3132
Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	140476 / Test Paper,PH Short Range 9.0/10.0	L23	08/22/2029	08/22/2024 / Iwona	08/22/2024 / Iwona	W3133
Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	AL70850-8 / Starch Solution, 4L	4408P62	08/31/2026	10/16/2024 / Iwona	10/16/2024 / Iwona	W3149
Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	140730 / TEST PAPER,POT.IOD-STRCH,P K100,CS12	14-860	12/02/2029	12/02/2024 / Iwona	12/02/2024 / Iwona	W3155
Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date /	Chemtech Lot #
PCI Scientific Supply, Inc.	J0660-1 / AMMONIUM CHLORIDE, ACS, 500G	24L0356561	08/31/2027	03/19/2025 / Iwona	03/19/2025 / Iwona	W3195
Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date /	Chemtech Lot #
PCI Scientific Supply, Inc.	J0660-1 / AMMONIUM CHLORIDE, ACS, 500G	MKCV1009	09/30/2026	03/19/2025 / Iwona	03/19/2025 / Iwona	W3196



Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	J3246-1 / POTAS PHOSPHATE, MONO, CRYS, ACS, 500G	MKCW6723	10/31/2028	04/11/2025 / Iwona	04/11/2025 / Iwona	W3198
Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	J3568-1 / Sodium Borate, 500 gms	BCCL9613	05/31/2029	04/16/2025 / Iwona	04/16/2025 / Iwona	W3201
Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9262-03 / Hexane, Ultra-Resi (cs/4x4L)	25c0362005	04/30/2026	04/22/2025 / jignesh	04/18/2025 / jignesh	W3204
Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	J3246-1 / POTAS PHOSPHATE, MONO, CRYS, ACS, 500G	MKCX1379	01/31/2029	04/29/2025 / Iwona	04/29/2025 / Iwona	W3206
	 		Frantisa	Date Opened /	Received Date /	Chemtech
Supplier	ItemCode / ItemName	Lot #	Expiration Date	Opened By	Received By	Lot #
Supplier PCI Scientific Supply, Inc.	ItemCode / ItemName 136742-80 / POLYSEED	Lot # 132409		· ·		
PCI Scientific			Date	Opened By 05/21/2025 /	Received By 05/21/2025 /	Lot #



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Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	J9416-1 / Sodium Hypochlorite 500 ml	2506M51	12/31/2025	07/02/2025 / lwona	07/02/2025 / lwona	W3222

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
HACH	1486266 / BOD Nutrient Buffer Pillows, 6 mL concentrate to make 6 L, 50/pk	A5105	05/31/2030	08/14/2025 / rubina	07/21/2025 / Iwona	W3233



CERTIFICATE OF ANALYSIS

Printed:

12/8/2017

Customer: PCI SCIENTIFIC

Page 1 of 1

Customer No:

30017 3008126

Customer PO: 6035343

Order Number:

Delivery #: 58495347

Catalog: A1561 Potassium Antimony Tartrate Trihydrate,

Lot: 2GH0057

Reagent, ACS

W2306

 $\begin{array}{ccc} \textbf{Chemical Formula:} & C_8H_4K_2O_{12}Sb_2.3H_2O\\ & \textbf{CAS\#:} & 28300\text{-}74\text{-}5 \end{array}$

Formula Weight: 667.87

Received Mills

Test	Limit	Results
	Min. Max.	
ASSAY (C ₈ H ₄ K ₂ O ₁₂ Sb ₂ .3HO)	99.0 - 103.0 %	101.0 %
TITRATABLE ACID OR BASE	0.020 meq/g	<0.020 meq/g
LOSS ON DRYING	2.7 %	<2.7 %
ARSENIC (As)	0.015 %	<0.015 %
APPEARANCE		WHITE POWDER
DATE OF MANUFACTURE		29-DEC-2015

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

Read and understand label and MSDS/SDS before handling any chemical. All Spectrum's chemicals are for manufacturing, processing, repacking or research purposes by experienced personnel only. The customer must ensure to provide its users adequate hazardous material training and appropriate protective gears before handling our chemicals.

Certificate of Analysis Results Certified By:



Ammonium Molybdate, 4-Hydrate, Crystal BAKER ANALYZED® A.C.S. Reagent

(ammonium heptamolybdate, tetrahydrate)



Material No.: 0716-01 Batch No.: 0000234410

Manufactured Date: 2019/02/13 Retest Date: 2026/02/11

Revision No: 1

Certificate of Analysis

Meets ACS Reagent Chemical Requirements,

Test	Specification	Result
Assay (as MoO3)	81.0 - 83.0 %	81.4
ACS – Insoluble Matter	<= 0.005 %	< 0.001
Chloride (Cl)	<= 0.002 %	< 0.002
Nitrate (NO3)	Passes Test	PT
Arsenate, Phosphate and Silicate (as SiO2)	<= 0.001 %	< 0.001
ACS – Phosphate (PO ₄)	<= 5 ppm	< 5
ulfate (SO ₄)	<= 0.02 %	< 0.02
leavy Metals (as Pb)	<= 0.001 %	< 0.001
Magnesium (Mg)	<= 0.005 %	< 0.001
otassium (K)	<= 0.01 %	< 0.01
odium (Na)	<= 0.01 %	< 0.001

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

Country of Origin: US

Packaging Site: Paris Mfg Ctr & DC



Phenolphthalein, Powder BAKER ANALYZED® A.C.S. Reagent



Material No.: 2870-01 Batch No.: 0000235350

Manufactured Date: 2018/06/06 Retest Date: 2025/06/04

Revision No: 1

Certificate of Analysis

Meets ACS Reagent Chemical Requirements,

Test	Specification	Result
ACS - Clarity of Solution	Passes Test	PT
Visual Transition Interval - pH8.0 (Colorless)	Passes Test	PT
Visual Transition Interval - pH10.0 (Red)	Passes Test	PT

For Laboratory, Research or Manufacturing Use

Country of Origin: CN

Packaging Site: Paris Mfg Ctr & DC





Certificate Of Analysis

Item Number	P1060	Lot Number	2HD0179
Item	Phenol, Loose Crystal, Reagent, ACS		
CAS Number	108-95-2		
Molecular Formula	C₀H₀O	Molecular Weight	94.11

Test	Specif	Result	
	min	max	
ASSAY (C ₆ H ₅ OH)	99.0 %		100.02 %
FREEZING POINT (DRY)	40.5 C		40.5°C
CLARITY OF SOLUTION	TO PASS TEST		PASSES TEST
RESIDUE AFTER EVAPORATION		0.05 %	<0.05 %
WATER		0.5 %	0.0087 %
DATE OF MANUFACTURE			06-MAR-2018

Spectrum Chemical Mfg Corp 755 Jersey Avenue New Brunswick 08901 NJ



Certificate Of Analysis Results Certified by

Ibad Tirmizi Director of Quality

Spectrum Chemical Mfg. Corp.

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

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



Material No.: H223-57 Batch No.: 0000266903

Manufactured Date: 2020/05/05

Retest Date: 2027/05/04 Revision No: 1

Certificate of Analysis

Test	Specification	Result
Assay (CH3(CH2)14CH3) (by GC)	>= 99.0 %	99.3
Infrared Spectrum	Passes Test	PT

For Laboratory, Research or Manufacturing Use

Country of Origin: US

Packaging Site: Paris Mfg Ctr & DC





Certificate of Analysis

W2666 Recived on 02/10/2020 by AP

Product No.: 87683

Product: Sodium pentacyanonitrosylferrate(III) dihydrate, ACS,

99.0-102.0%

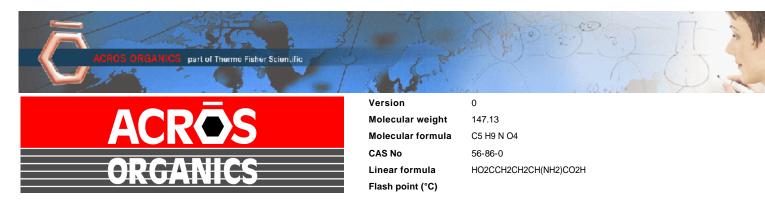
Lot No.: W12F013

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

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Certificate of Analysis

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

Catalog Number	15621	Quality Test / Release Date	13 March 2019
Lot Number	A0405990	Suggested Retest Date	March 2022
Description	L(+)-Glutamic acid,99%		
Country of Origin	CHINA		
Declaration of Origin	plant		

Origin Comment	The product is made by fermentation of sugar molasses	
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Result Name	Specifications	Test Value
Appearance (Color)	White	White
Appearance (Form)	Powder	Powder
Infrared spectrum	Conforms	Conforms
Titration with NaOH	98.5 to 100.5 % (On dried substance)	99.32 % (On dried substance)
Loss on drying	=<0.5 % (105°C, 3 hrs)	0.002 % (105°C, 3 hrs)
Heavy metals (as Pb)	=<10 ppm	=<10 ppm
Sulfated ash	=<0.1 %	0.08 %
Other amino acids	not detectable	not detectable
Specific optical rotation	+30.5° to +32.5° (20°C, 589 nm) (on dried substance)	+32° (20°C, 589 nm) (on dried substance)
Specific optical rotation	(c=10, 2N HCI)	(c=10, 2N HCI)
Chloride (CI)	=<200 ppm	=<200 ppm
Iron (Fe)	=<30 ppm	=<10 ppm
Sulfate (SO4)	=<300 ppm	=<200 ppm
Ammonium (NH4)	=<200 ppm	=<200 ppm
Arsenic oxide (As2O3)	=<1 ppm	=<1 ppm





L. Van den Broek, QA Manager

Acros Organics ENA23, zone 1, nr 1350, Janssen Pharmaceuticalaan 3a, B-2440 Geel, Belgium Tel +32 14/57.52.11 - Fax +32 14/59.34.34 Internet: http://www.acros.com 1 Reagent Lane, Fair Lawn, NJ 07410,USA Fax 201-796-1329

Issued: 24 January 2020

Thermo Fisher SCIENTIFIC

W 2817 Nec. 04/02/2021

Product Specification

Product Name:

Stearic acid, 98%, Thermo Scientific Chemicals

Catalog Number:

A12244.14

CAS Number:

57-11-4

Molecular Formula:

C18H36O2

Molecular Weight:

284.48

InChl Key:

QIQXTHQIDYTFRH-UHFFFAOYSA-N

SMILES:

CCCCCCCCCCCCCC(O)=O

Synonym:

stearic acid acide stearique hydrofol acid 1855 hydrofol acid 1655 industrene 5016

stearic acid, ion(1-) (8CI) glycon TP glycon DP acidum stearinicul hydrofol acid 150

Product Specification

Appearance (Color):

White

Form:

Crystals or powder or crystalline powder or flakes or waxy solid

Assay (Silylated GC):

≥97.5%

Melting Point (clear melt):

67.0-74.0?C

Date Of Print:

11/30/2023

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



CERTIFICATE OF ANALYSIS

Product Name ISOPROPYL ALCOHOL, 99%

Grade Meets ACS/USP/NF Monographs

Catalog # 231000099, zp231000099

Lot # C20F23007

Date of Manufacture: 06/23/20 W2788 Received on 12/30/2020 by AP

Recommended Retest Date: Five Years from Date of Manufacture

TEST	MONO GRAPH	SPECIFICATION	RESULT
Assay (corrected for water)	USP	99.0% min	99.92%
Assay (corrected for water)	ACS	99.5% min	99.92%
Solubility in water	ACS ⁺	To Pass Test	Pass
Appearance	ACS ⁺	Clear, colorless liquid	Pass
Color, APHA	ACS	10 max	1
Limit of Nonvolatile Residue	USP⁺	NMT 2.5 mg (0.005%)	0.1 mg
Residue after Evaporation	ACS ⁺	0.001% max	< 0.001%
Specific Gravity	USP	0.783 - 0.787 @25°C	0.783
Identification A - Infrared Absorption	USP	To Pass Test	Pass
Identification B	USP	To Pass Test	Pass
Refractive Index @ 20°C	USP	1.376-1.378	1.377
Acidity	USP⁺	NMT 0.70 ml of 0.020N NaOH is required	0.30 mL
Titrable Acid or Base	ACS ⁺	0.0001 meq/g max	0.0001 meq/g
Caula and Causa and a	ACC	Propionaldehyde 0.002% max	< 0.002%
Carbonyl Compounds	ACS	Acetone 0.002% max	None Detected
		Diethyl Ether NMT 0.1% Acetone NMT 0.1%	< 0.1% None Detected
Limit of Malatila Image with a	USP	Diisopropyl Ether NMT 0.1%	< 0.1%
Limit of Volatile Impurities	USP	n-Propyl Alcohol NMT 0.1%	< 0.1%
		2-Butanol NMT 0.1%	< 0.1%
		Total NMT 1.0%	< 0.1%
Water, wt%	ACS	NMT 0.2%	0.05%
Water Determination	USP	NMT 0.5%	2.00/3

[†]This test is performed quarterly



Certification and Compliance Statements

This lot of Isopropyl Alcohol complies with all of the current requirements listed in the United States Pharmacopeia, American Chemical Society monographs and the National Formulary.

No chemicals whatsoever are used as solvents at any point in the manufacture, processing or packaging of Isopropyl Alcohol. Only Class 2 and Class 3 residual solvents may appear as impurities / related substances / low level contaminants in IPA Concentration of Class 2 Option 1 and Class 3 residual solvents is below limits in the current USP/NF General Chapter <467>.

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

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

Approved by: D. Simoncelli, Quality Control Chemist

Deal Sind

Date of Approval: 06/23/2020

W3009 Lec. 2/27/2023

12

3050 Spruce Street, Saint Louis, MO 63103, USA

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

Outside USA: eurtechserv@sial.com

Product Name:

Certificate of Analysis

CH₃(CH₂)₁₄CH₃

Hexadecane - ReagentPlus®, 99%

Product Number:

H6703

Batch Number:

SHBP8192

Brand:

SIAL

CAS Number:

544-76-3

MDL Number:

MFCD00008998

Formula:

C16H34

Formula Weight:

226.44 g/mol

Quality Release Date:

04 AUG 2022

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

Larry Coers, Director **Quality Control**

Sheboygan Falls, WI US

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



Sigma-Aldrich

W 3035 12 lec. 6/6/23 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

(NH₄)₂S₂O₈

Ammonium persulfate - ACS reagent, ≥98.0%

Product Number:

248614

Batch Number:

MKCR9319

Brand:

SIGALD

CAS Number:

SIGALD

MDL Number:

7727-54-0

Formula Weight:

MFCD00003390 228.20 g/mol

Quality Release Date:

13 OCT 2022

Test	Specification	Result
Appearance (Color)	White to Off White	White
Appearance (Form)	Powder or Crystals or Granules or Cho	unks Crystals
ICP Major Analysis	Confirmed	Confirmed
Confirms Sulfur Component		
Titration by KMNO4	≥ 98.0 %	100.0 %
Residue on ignition (Ash)	<pre>< 0.05 %</pre>	< 0.05 %
Insoluble Matter	≤ 0.005 %	0.002 %
c = 10 %; In Water	_	
Chloride and Chlorate (as CI)	<u><</u> 0.001 %	< 0.001 %
Iron (Fe)	<u><</u> 0.001 %	< 0.001 %
Heavy Metal	<u><</u> 0.005 %	< 0.001 %
as Lead	0.5	. 0.4
Manganese (Mn)	< 0.5 ppm	< 0.1 ppm
Titratable Acid (meq/g)	<u>≤</u> 0.04	< 0.04
Meets ACS Requirements	Current ACS Specification	Conforms

Larry Coers, Director Quality Control Milwaukee, WI US

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

Certificate of Analysis Page 1 of 1



Certificate of Analysis

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

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

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

Catalog Number	D16	Quality Test / Release Date	03/19/2019
Lot Number	186122A		
Description	DEXTROSE, ANHYDROUS, A.C.S.		
Country of Origin	United States	Suggested Retest Date	Mar/2022
Chemical Origin	Organic - Plant		
BSE/TSE Comment	No animal products are used as starting processing aids, or any other material that	•	
Chemical Comment			

N/A			
Result Name	Units	Specifications	Test Value
APPEARANCE		REPORT	White, granular powder
TITRATABLE ACID	MEQ/G	<= 0.002	<0.002
STARCH		= PASS TEST	pass test
SPECIFIC ROTATION @ 25 C	DEGREES (+ OR -)	Inclusive Between +52.5 - +53.0	53.0
SULFATE & SULFITE	%	<= 0.005	<0.005
IRON (Fe)	ppm	<= 5	<5
CHLORIDE	%	<= 0.01	<0.01
IGNITION RESIDUE	%	<= 0.02	<0.02
IDENTIFICATION	PASS/FAIL	= PASS TEST	pass test
HEAVY METALS (as Pb)	ppm	<= 5	<5
LOSS ON DRYING @ 105 C	%	<= 0.2	<0.2
INSOLUBLE MATTER	%	<= 0.005	0.002

Derisa Bailey- Wyche

Quality Assurance Specialist - Certificate of Analysis Fair Lawn



Mirador 201, Col. Mirador Monterrey, N.L. México CP 64070 TEL +52 81 13 52 57 57 www.pqm.com.mx

CERTIFICATE OF ANALYSIS

PRODUCT:

SODIUM SULFATE CRYSTALS ANHYDROUS

QUALITY:

ACS (CODE RMB3375)

FORMULA:

Na₂SO₄

MEMPERSON .

SPECIFICATION NUMBER: 6399

RELEASE DATE:

MAY/23/2024

LOT NUMBER:

417203

TEST	SPECIFICATIONS	LOT VALUES
Assay (Na ₂ SO ₄)	Min. 99.0%	99.8 %
pH of a 5% solution at 25°C	5.2 - 9.2	6.2
insoluble matter	Max. 0.01%	0.001 %
Loss on ignition	Max. 0.5%	0.1 %
Chloride (CI)	Max. 0.001%	<0.001 %
Nitrogen compounds (as N)	Max. 5 ppm	<5 ppm
Phosphate (PO ₄)	Max. 0.001%	<0.001 %
Heavy metals (as Pb)	Max. 5 ppm	<5 ppm
Iron (Fe)	Max. 0.001%	<0.001 %
Calcium (Ca)	Max. 0.01%	0.001 %
Magnesium (Mg)	Max. 0.005%	0.001 %
Potassium (K)	Max. 0.008%	0.001 %
Extraction-concentration suitability	Passes test	Passes test
Appearance	Passes test	Passes test
dentification	Passes test	Passes test
Solubility and foreing matter	Passes test	Passes test
Retained on US Standard No. 10 sieve	Max. 1%	0.2 %
Retained on US Standard No. 60 sieve	Min. 94%	96.2 %
Through US Standard No. 60 sieve	Max. 5%	3.5 %
Through US Standard No. 100 sieve	Max. 10%	0.1 %

QC: PhC Irma Belmares

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

Acetone BAKER RESI-ANALYZED® Reagent For Organic Residue Analysis



Material No.: 9254-03

Batch No.: 24H2762008

Manufactured Date: 2024-04-18

Expiration Date: 2027-04-18

Revision No.: 0

Certificate of Analysis

Test		
	Specification	Result
Assay ((CH ₃) ₂ CO) (by GC, corrected forwater) Color (APHA)	>= 99.4 %	
Residue after Evaporation	<= 10	100.0 % 5
Substances Reducing Permanganate	<= 1.0 ppm	0.0 ppm
Titrable Acid (µeq/g)	Passes Test	Passes Test
Fitrable Base (µeq/g)	<= 0.3	0.2
Vater (H ₂ O)	<= 0.6	<0.1
ID-Sensitive Impurities (as 2-Octanol)Single Impurity Peak	<= 0.5 %	<0.1 %
CD Sensitive Impurities (as HeptachlorEpoxide) Single Peak	\ - 3	1
og/mL) (as neptachlorEpoxide) Single Peak	<= 10	1

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

Country of Origin: United States

Packaging Site: Phillipsburg Mfg Ctr & DC

Recd by RP cn 03/31/25



Director Quality Operations, Bioscience Production

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 (H2SO4)	95.0 - 98.0 %	96,1 %
Appearance	Passes Test	Passes Test
ACS - Color (APHA)	≤ 10	5
ACS – Residue after Ignition	≤ 3 ppm	< 1 ppm
ACS - Substances Reducing Permanganate (as SO2)	≤ 2 ppm	< 2 ppm
Ammonium (NH ₄)	≤ 1 ppm	1 ppm
Chloride (CI)	≤ 0.1 ppm	< 0.1 ppm
Nitrate (NO3)	≤ 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





Certificate of Analysis

Product information

Product

pH-Fix 0.3-2.3

REF

92180

LOT

80A0441

Expiration date:

29.02.2028

Date of examination:

23.01.2024

Gradation:

pH 0.3-0.7-1.0-1.3-1.6-1.9-2.3

Confirmation

Hereby we confirm, that the above mentioned product has successfully passed our quality control system in accordance with ISO 9001 and meets the specific quality criteria.

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

US Tel.: +1 888 321 62 24 sales-us@mn-net.com

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





M6151

R-> 1/15/25

Material No.: 9530-33

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

Retest Date: 2027-06-14

Revision No.: 0

Certificate of Analysis

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

>>> Continued on page 2 >>>

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
Frace Impurities – Zirconium (Zr)	≤ 1.0 ppb	0.3 ppb

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



3050 Spruce Street, Saint Louis, MO 63103, USA

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

Outside USA: eurtechserv@sial.com

W3074 Rec. on 01/16/24 by IZ

Certificate of Analysis

L-Ascorbic acid - ACS reagent, ≥99%

Product Name:

Product Number: 255564 Batch Number: MKCS4627

Brand: SIAL CAS Number: 50-81-7

MDL Number: MFCD00064328

Formula: C6H8O6 Formula Weight: 176.12 g/mol Quality Release Date: 21 NOV 2022 Recommended Retest Date: SEP 2025

Test	Specification	Result
Appearance (Color)	White	White
Appearance (Form)	Conforms to Requirements	Powder
Powder, Crystals, Crystalline Powder,		
Granules and/or Chunks		
Infrared Spectrum	Conforms to Structure	Conforms
Optical Rotation	20.5 - 21.5 deg	20.7 deg
(+); c = 10%; Water		
Titration by Iodine	≥ 99.0 %	99.4 %
Residue on Ignition	≤ 0.10 %	0.03 %
Iron (Fe)	≤ 0.001 %	< 0.001 %
Heavy Metals	< 0.002 %	0.001 %
by ICP-OES		
Recommended Retest Period		
3 Years		
Meets ACS Requirements	Current ACS Specification	Conforms

Larry Coers, Director Quality Control Milwaukee, WI US

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

Version Number: 1 Page 1 of 1

Certificate of analysis

W3082 Received on 2/26/2026 by IZ

Product No.: A12244

Product: Stearic acid, 98%

Lot No.: U23E020

Appearance White flakes

Assay 98.7 %

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



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

customerservice@riccachemical.com

Certificate of Analysis

Manganous Sulfate Solution, 364 g/L

Lot Number: 2403J02 Product Number: 4620

Manufacture Date: MAR 15, 2024

Expiration Date: MAR 2026

Name	CAS#	Grade
Water	7732-18-5	ACS/ASTM/USP/EP
Manganous Sulfate Monohydrate	10034-96-5	Reagent
Sulfuric Acid	7664-93-9	ACS

Test	Specification	Result	
Appearance	Pink liquid	Passed	
Assay (by Refractive Index)	360-368 g/L	367 g/L	

Specification	Reference
Manganous Sulfate Solution	ASTM (D 888 A)
Manganous Sulfate Solution	ASTM (D 888 A)
Manganous Sulfate Solution	APHA (4500-O E)
Manganous Sulfate Solution	APHA (4500-O F)
Manganous Sulfate Solution	APHA (4500-O D)
Manganous Sulfate Solution	APHA (4500-O E)
Manganous Sulfate Solution	APHA (4500-O F)
Manganous Sulfate Solution	APHA (4500-O D)
Manganous Sulfate Solution	APHA (4500-O C)
Manganous Sulfate Solution	APHA (4500-O C)
Manganous Sulfate Solution	EPA (360.2)
Manganous Sulfate Solution	EPA (360.2)

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)
4620-32	1 L natural poly	24 months

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

Version: 1.3 Lot Number: 2403J02 Product Number: 4620 Page 1 of 2



Jose Pena (03/15/2024)

Operations Manager

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

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

Version: 1.3 Lot Number: 2403J02 Product Number: 4620 Page 2 of 2

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

customerservice@riccachemical.com

Certificate of Analysis

Sodium Thiosulfate, 0.0250 Normal (N/40)

Lot Number: 4403S13 Product Number: 7900

Manufacture Date: MAR 29, 2024

Expiration Date: SEP 2025

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

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

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

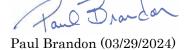
Specification	Reference
Standard Sodium Thiosulfate Solution, 0.0250 N	APHA (4500-S2- F)
Standard Sodium Thiosulfate Titrant	APHA (4500-O D)
Standard Sodium Thiosulfate Titrant	APHA (4500-O E)
Standard Sodium Thiosulfate Titrant	APHA (4500-O F)
Standard Sodium Thiosulfate Titrant, 0.025 N	APHA (4500-Cl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

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

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

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

Version: 1.3 Lot Number: 4403S13 Product Number: 7900 Page 1 of 2



Production Manager

This document is designed to comply with ISO Guide 31 "Reference Materials $^{\rm --}$ Contents of Certificates and Labels."

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Version: 1.3 Lot Number: 4403S13 Product Number: 7900 Page 2 of 2

448 West Fork Dr Arlington, TX 76012 http://www.riccachemical.com 1-888-GO-RICCA

customerservice@riccachemical.com

Certificate of Analysis

Alkaline-Iodide-Azide, Pomeroy Formulation for Dissolved Oxygen (DO) Analysis

Lot Number: 1405D67 Product Number: 535

Manufacture Date: APR 05, 2024

Expiration Date: APR 2026

This solution is intended for use with samples with high Dissolved Oxygen content (above 15 mg/L) and for samples with high concentrations of organic material.

Name	CAS#	Grade	
Water	7732-18-5	ACS/ASTM/USP/EP	
Sodium Iodide	7681-82-5	ACS	
Sodium Hydroxide	1310-73-2	ACS	
Sodium Azide	26628-22-8	Reagent	

Test	Specification	Result
Appearance	Colorless liquid	Passed
Free Iodine	To Pass Test	Passed

Specification	Reference

Alkaline Iodide-Sodium Azide Solution II

ASTM (D 888 A)

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)
535-32	1 L natural poly	24 months

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

Heidi J Green (04/05/2024) Operations Manager

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Version: 1.3 Lot Number: 1405D67 Product Number: 535 Page 1 of 1



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.



Certificate Of Analysis

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

7557	SPECIFICATION		5-6111-
TEST	MIN	MAX	RESULT
ASSAY (DRIED BASIS)	99.0	101.0 %	99.5 %
pH OF A 5% SOLUTION @ 25°C	4.0	6.0	4.6
LOSS ON DRYING	8.7	11.4 %	8.90 %
CALCIUM (Ca)	NO PRECIPITATE IS FORMED		NO PRECIPITATE IS FORMED
ELEMENTAL IMPURITIES:			
NICKEL (Ni)	AS REPORTED		<0.3 ppm
CHROMIUM (Cr)	AS REPORTED		<0.3 ppm
NITRILOTRIACETIC ACID[$n[(HOCOCH_2)]$ 3N]		0.1 %	<0.10 %
IDENTIFICATION A	MATCHES REFERENCE		MATCHES REFERENCE
IDENTIFICATION B	RED COLOR IS DISCHARGED, LEAVING A YELLOWISH SOLUTION		RED COLOR IS DISCHARGED, LEAVING A YELLOWISH SOLUTION
IDENTIFICATION C	MEETS THE REQUIREMENTS FOR SODIUM		MEETS THE REQUIREMENTS FOR SODIUM
CERTIFIED HALAL			CERTIFIED HALAL
EXPIRATION DATE			10-JUL-2026
DATE OF MANUFACTURE			11-JUL-2023
APPEARANCE			WHITE CRYSTALLINE POWDER
RESIDUAL SOLVENTS		AS REPORTED	NO RESIDUAL SOLVENTS PRESENT
MONOGRAPH EDITION			USP 2024

Certificate of Analysis Results Entered By:

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

Spectrum Chemical Mfg Corp 755 Jersey Avenue New Brunswick 08901 NJ Certificate of Analysis Results Approved By:

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

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

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

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

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

customerservice@riccachemical.com

Certificate of Analysis

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

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

Expiration Date: AUG 2026

This product is Mercury-free.

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

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

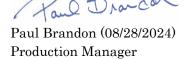
Specification	Reference
Starch Solution	APHA (4500-S2- F)
Starch Indicator Solution	APHA (4500-Cl B)
Starch Indicator	APHA (4500-SO32- B)
Starch indicator solution	APHA (2350 B)
Starch indicator solution	APHA (2350 E)
Starch Solution	APHA (510 B)
Starch Solution	APHA (5530 C)
Starch Indicator	APHA (4500-C1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

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

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

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

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



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



W3195 Received on 03/19/2025 by IZ

Certificate of Analysis

Material BDH9208-500G

Material Description BDH AMMONIUM CHLORIDE ACS 500G

Grade USPREAGENT (ACS GRADE)

Batch 24L0356561
Reassay Date 08/31/2027
CAS Number 12125-02-9
Molecular Formula NH4Cl
Molecular Mass 53.49

Date of Manufacture 08/01/2024

Storage Room Temperature

Characteristics	Specifications	Measured Values
Appearance	White granular powder	White granular powder
Calcium	<= 0.001 %	0.001 %
Heavy Metals (as Pb)	<= 0.0005 %	<0.0002 %
Insolubles	<= 0.005 %	0.001 %
Iron	<= 0.0002 %	<0.0002 %
Magnesium	<= 0.0005 %	0.0001 %
pH (5%, Water) @25C	4.5 - 5.5	4.8
Phosphate	<= 0.0002 %	<0.0002 %
Purity	>= 99.5 %	99.8 %
Residue on Ignition	<= 0.01 %	0.003 %
Sulfate	<= 0.002 %	<0.002 %
Extra Description:	Meets Reagent Specifications for testing USP/NF monographs	

Internal ID #: 710

Signature Additional Information

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

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

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

28600 Fountain Parkway, Solon OH 44139 USA

Analysis may have been rounded to significant digits in specification limits

Product meets analytical specifications of the grades listed.

W3196 Received on 03/19/2025 by IZ

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

NH₄CI

Ammonium chloride - ACS reagent, ≥99.5%

Product Name:

Product Number: 213330

Batch Number: MKCV1009

Brand: SIGALD

CAS Number: 12125-02-9
MDL Number: MFCD00011420

Formula: H4CIN

Formula Weight: 53.49 g/mol

Quality Release Date: 23 OCT 2023

Recommended Retest Date: SEP 2026

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

Larry Coers, Director

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

Version Number: 1 Page 1 of 2

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 Number: 213330
Batch Number: MKCV1009

Quality Control Milwaukee, WI US

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

Version Number: 1 Page 2 of 2

Product Name:

W3198 Received on 4/11/2025 by IZ

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

KH₂PO₄

Potassium phosphate monobasic - ACS reagent, ≥99.0%

Product Number: P0662
Batch Number: MKCW6723

 Brand:
 SIGALD

 CAS Number:
 7778-77-0

 MDL Number:
 MFCD00011401

Formula: H2KO4P
Formula Weight: 136.09 g/mol
Quality Release Date: 16 OCT 2024
Recommended Retest Date: OCT 2028

Test	Specification	Result
Appearance (Color)	White	White
Appearance (Form)	Powder or Crystals	Crystals
Assay	≥ 99.0 %	99.8 %
Insoluble Matter	≤ 0.01 %	< 0.01 %
Loss on Drying	≤ 0.2 %	< 0.1 %
At 105°C		
рН	4.1 - 4.5	4.5
(c = 5%, 25 deg C)		
Chloride Content	≤ 0.001 %	< 0.001 %
Sulfate (SO4)	≤ 0.003 %	< 0.003 %
Heavy Metals	≤ 0.001 %	< 0.001 %
by ICP		
Iron (Fe)	≤ 0.002 %	< 0.001 %
Sodium (Na)	< 0.005 %	< 0.001 %
Recommended Retest Period		
4 Years		

Larry Coers, Director Quality Control Milwaukee, WI US

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

Version Number: 1 Page 1 of 1



Product Name:

W3201 Received on 4/16/25 by IZ

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

Sodium tetraborate decahydrate - ACS reagent, ≥99.5%

Product Number: S9640 **Batch Number: BCCL9613** Brand: SIGALD CAS Number: 1303-96-4 Formula: B4Na2O7 · 10H2O Formula Weight: 381,37 g/mol Quality Release Date: 05 JUL 2024 Recommended Retest Date: MAY 2029



Test	Specification	Result
Appearance (Color)	White	White
Appearance (Form)	Powder or Crystals	Powder
Titration with NaOH	99.5 - 105.0 %	100.7 %
pH	9.15 - 9.20	9.20
0.01 m Solution at 25 Deg C		
Meets ACS Requirements	Corresponds to Requirements	Corresponds
ACS Specifications	Corresponds to Requirements	Corresponds
Insoluble Matter <= 0.005% / Heavy		
Metals (As Pb) <= 0.001%		
Calcium (Ca)	< 50 mg/kg	< 50 mg/kg
Iron (Fe)	≤ 5 mg/kg	< 5 mg/kg
Total Sulfur	< 50 mg/kg	< 50 mg/kg
as SO4 (ICP)		
Chloride (CI)	≤ 10 mg/kg	< 10 mg/kg
Phosphate (PO4)	≤ 10 mg/kg	< 10 mg/kg

Dr.Reinhold Schwenninger

Quality Assurance Buchs, Switzerland CH

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



Version Number: 1 Page 1 of 1

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





08018, 0d/12/19082

Material No.: 9262-03

Batch No.: 25C0362005 Manufactured Date: 2025-01-29

Expiration Date:2026-04-30

Revision No.: 0

Certificate of Analysis

	, , , , ,	
Test	Specification	
FID-Sensitive Impurities (Specification	Result
FID-Sensitive Impurities (as 2-Octanol)Single Impurity Peak (ng/mL)	\- J	1
ECD Sensitive Impurities (as HeptachlorEpoxide) Single Peal	<= 10	·
(pg/mc)	<= 10	6
Impurity Peak (ng/mL)	<= 5	5
Assay (Total Saturated Co Isomers) (byGC, corrected for water)	>= 99.5 %	100.0 %
Assay (as n-Hexane) (by GC, correctedfor water)	>= 95 %	100 %
Color (APHA)	<= 10	
Residue after Evaporation		10
Substances Darkened by H2SO4	<= 1.0 ppm	0.1 ppm
	Passes Test	Passes Test
Water (by KF, coulometric)	<= 0.05 %	<0.01 %

MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: United States

Packaging Site: Phillipsburg Mfg Ctr & DC



Director Quality Operations, Bioscience Production

3050 Spruce Street, Saint Louis, MO 63103, USA

KH₂PO₄

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

Product Name: Certificate of Analysis

Potassium phosphate monobasic - ACS reagent, ≥99.0%

Product Number: P0662
Batch Number: MKCX1379

 Brand:
 SIGALD

 CAS Number:
 7778-77-0

 MDL Number:
 MFCD00011401

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

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

Larry Coers, Director Quality Control Milwaukee, WI US

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

Version Number: 2 Page 1 of 1

N3212 Deceived on 5/21/25 by 12



PO BOX 130549 Spring, TX 77393 Phone: (281) 298-9410 Fax: (281) 298-9411

FINISHED PRODUCT, LOT NUMBER, MFG. /EXP DATE:

PolySeed® • Part No. P-110 • Lot 132409 • Mfg. Date: 09/2024 • Exp. Date: 09/2026

FORMULATION:

The formulation for this product contains a range of naturally occurring microorganisms, which are known to be non-pathogenic to man or animals.

VIABLE COUNT, FINAL TEST RESULT:

The product has been fully tested in accordance with Finished Product Specifications and contains a minimum viable count of 4.00×10^9 cfu/g.

GLUCOSE/GLUTAMIC-ACID RESULTS:

Tested results within acceptable range 198 +/- 30.5 mg/L (167.5 - 228.5 mg/L). GGA Lot# 43100020 – Average Test Result: 202.1

See www.polyseed.com for details.

SEED CONTROL FACTOR:

Tested results within acceptable range 0.6 – 1.0 see www.polyseed.com for details

SALMONELLA TEST RESULT:

The product has been shown to be Salmonella negative using procedures recommended in the Microbiology Laboratory Guidebook, published by the USDA Food Safety and Inspection Service.

The purpose of this document is to ensure that the Finished Product conforms to the above specification.

Signature:

Date: 09/13/2024

Quality Control Department

POLYSEED.Ref.1.19

Revised Jan 24





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

customerservice@riccachemical.com

Certificate of Analysis

Sodium Hypochlorite Solution, 5% available Chlorine

Lot Number: 2506M51 Product Number: 7495.5

Manufacture Date: JUN 18, 2025

Expiration Date: DEC 2025

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

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

Test	Specification	Result	NIST SRM#
Appearance	Colorless to greenish-yellow liquid	Passed	
Assay (vs. Sodium Thiosulfate/Starch)	4.75-5.25 % (w/w) Cl ₂	$5.17~\%$ (w/w) $\mathrm{Cl_2}$	136

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

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

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

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

Jose Pena (06/18/2025) Operations Manager

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Version: 1.3 Lot Number: 2506M51 Product Number: 7495.5 Page 1 of 1

P.O. Box 389 Loveland, CO 80539 (970) 669-3050

An ISO 9001 Certified Company

Certificate of Analysis

This is a Component of 1486266 / LOT A5105

PRODUCT: BOD Nutrient Buffer Pillows

PRODUCT NUMBER: 1486227 LOT NUMBER: A5105

MANUFACTURE DATE: 05/13/2025 **DATE OF ANALYSIS:** 05/27/2025

TEST	SPECIFICATIONS	RESULTS
Ammonia Concentration of a diluted pillow	0.57 to 0.79 ppm	0.570
Calcium Concentration of a diluted pillow	0.93 to 1.29 ppm	0.980
Iron Concentration of a diluted pillow	0.27 to 0.36 ppm	0.283
Magnesium Concentration of a diluted pillow	0.35 to 0.48 ppm	0.360
Phosphorus Concentration of a diluted pillow	7.6 to 10.3 ppm	8.11
pH in a 6 L of DI water	7.1 to 7.6 ph	7.31
Five Day Change in Dissolved Oxygen Concentration	-0.2 to 0.2 ppm	0.03
Sterility	To Pass	Passed

The expiration date is May 2030

Certified by: Scottals

Analytical Services Chemist



SHIPPING DOCUMENTS



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

ALLIANCE PF	ROJECT NO.	\sim		
QUOTE NO.		d	3184	
COC Number	20450	71	,	

	CLIENT	INFORMATION		CLIENT PROJECT INFORMATION									CLIEN	IT BILLI	NG INF	ORMATION					
COMPANY:	HOLLAN!	NHG C	5	PROJE	PROJECT NAME: HMC Pretreatest					BILL TO: PO#						PO#:					
ADDRESS:	15 MA	HIN St.		PROJECT NO.: LOCATION: A						ADDR	ESS:		3								
CITY S	CCASUNA	A STATE:	1.5ZIP: 07846	PROJE	CT M	ANAC	ER:	1000	H	// AN	D		CITY			STATE: ;ZIP:					
ATTENTION:	,	•	•	e-mail:				, , ,		- 1			ATTE	NTION:		PHONE:					
PHONE:		FAX:		PHONE				FA	X: :								ANA	ALYSIS			
	DATA TURNAF	OUND INFORMAT	TION		-	DATA	DELIVE			ATION							7		, ,		
FAX (RUSH) HARDCOPY (D. EDD: *TO BE APPRO STANDARD HA	VED BY CHEM		DAYS* DAYS* DAYS*	□ Leve □ Leve + Ra	DATA DELIVERABLE INFORMATION Level 1 (Results Only) Level 4 (QC + Full Raw Data) Level 2 (Results + QC) NJ Reduced US EPA CLP Level 3 (Results + QC NYS ASP A NYS ASP B + Raw Data) Control Control						4 5 6 7 8 9.					MANUFALTO					
ALLIANCE		PROJECT		SAMPLE	SAN			IPLE ECTION	TLES		0	n.i		SERVA'	IIVES					MMENTS fy Preservatives	
SAMPLE ID	s	AMPLE IDENTIFIC	ATION	MATRIX	COMP	GRAB	DATE	TIME	OF BOTTLES	8	2	C	0	C	\sim				A-HCI _. B-HN03	D-NaOH E-ICE	
1.	CCOI	vent		w	0	7	921	12:00	/	1	2	3	4	5	6	7	8	9	C-H2SO4	F-OTHER	
2.	Aeiro	Line		W		J	921	12:00	9	V	./								-		
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Laboratory Certification

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

QA Control Code: A2070148