

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: Q3701

Client: Holland Manufacturing Co.

Contact: Todd Holland

OrderDate: 11/20/2025 4:36:00 PM

Project: Pre Treatment Plant 2025

Location: D41

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q3701-01	EFFLUENT	WATER			11/20/25 13:30			11/20/25
			Ammonia	SM4500-NH3		11/25/25	11/25/25 11:43	
			BOD5	SM5210 B			11/21/25 15:20	
			Oil and Grease	1664A			11/25/25 11:30	
			Phosphorus-Ortho	SM4500-P E			11/21/25 12:07	
			Phosphorus-Total	365.3		11/21/25	11/21/25 13:29	
			TSS	SM2540 D			11/21/25 15:30	
Q3701-01DL	EFFLUENTDL	WATER			11/20/25 13:30			11/20/25
			Ammonia	SM4500-NH3		11/25/25	11/25/25 12:16	
Q3701-04	AERATION	WATER			11/20/25 13:30			11/20/25
			TSS	SM2540 D			11/21/25 15:30	
Q3701-05	INFLUENT	WATER			11/20/25 13:30			11/20/25
			Ammonia	SM4500-NH3		11/25/25	11/25/25 11:50	
			BOD5	SM5210 B			11/21/25 15:20	



LAB CHRONICLE

Q3701-05DL INFLUENTDL WATER 11/20/25 13:30

Ammonia SM4500-NH3 11/25/25 11/25/25

12:16



SAMPLE DATA



Fax: 908 789 8922

Report of Analysis

Client: Holland Manufacturing Co.
Project: Pre Treatment Plant 2025

Client Sample ID: EFFLUENT Lab Sample ID: Q3701-01

Date Collected: 11/20/25 13:30

Date Received: 11/20/25

SDG No.: Q3701 Matrix: WATER

% Solid: 0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Ammonia as N	462	OR	1	1.50	5.00	mg/L	11/25/25 09:10	11/25/25 11:43	SM 4500-NH3 B plus G-21
BOD5	15300		1	0.20	2.00	mg/L		11/21/25 15:20	SM 5210 B-16
Oil and Grease	32.9		1	0.29	5.00	mg/L		11/25/25 11:30	1664A
Orthophosphate as P	0.033	J	1	0.0040	0.050	mg/L		11/21/25 12:07	SM 4500-P E-21
Phosphorus, Total	0.081		1	0.0050	0.050	mg/L	11/21/25 10:20	11/21/25 13:29	365.3
TSS	1040		1	1.00	4.00	mg/L		11/21/25 15:30	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



Q3701-01DL

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

Fax: 908 789 8922

Report of Analysis

Client: Holland Manufacturing Co. Date Collected: 11/20/25 13:30 Project: Pre Treatment Plant 2025 Date Received: 11/20/25 Client Sample ID: EFFLUENTDL SDG No.: Q3701 Lab Sample ID: Matrix: WATER

> % Solid: 0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Ammonia as N	403	D	10	15.0	50.0	mg/L	11/25/25 09:10	11/25/25 12:16	SM 4500-NH3 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



Fax: 908 789 8922

Report of Analysis

Client: Holland Manufacturing Co. Date Collected: 11/20/25 13:30

Project: Pre Treatment Plant 2025 Date Received: 11/20/25

Client Sample ID: AFRATION SDG No. 03701

Client Sample ID: AERATION SDG No.: Q3701 Lab Sample ID: Q3701-04 Matrix: WATER % Solid: 0

MDL LOQ / CRQL Units Ana Met. Parameter Conc. Qua. DF **Prep Date** Date Ana. TSS 1530 1.00 11/21/25 15:30 SM 2540 D-20 1 4.00 mg/L

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.
Project: Pre Treatment Plant 2025

Client Sample ID: INFLUENT Lab Sample ID: Q3701-05

Date Collected: 11/20/25 13:30

Date Received: 11/20/25

SDG No.: Q3701 Matrix: WATER

% Solid: 0

Parameter	Conc. (Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Ammonia as N	318	OR	1	1.50	5.00	mg/L	11/25/25 09:10	11/25/25 11:50	SM 4500-NH3 B plus G-21
BOD5	20400		1	0.20	2.00	mg/L		11/21/25 15:20	1

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



Q3701-05DL

Lab Sample ID:

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

Fax: 908 789 8922

Report of Analysis

Client:Holland Manufacturing Co.Date Collected:11/20/25 13:30Project:Pre Treatment Plant 2025Date Received:11/20/25Client Sample ID:INFLUENTDLSDG No.:Q3701

% Solid: 0

WATER

Matrix:

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Ammonia as N	276	D	5	7.50	25.0	mg/L	11/25/25 09:10	11/25/25 12:16	SM 4500-NH3 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.: Q3701

Analyte		Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID:	ICV	/-		0.50	0.17	00.110	11 /01 /0005
Orthophosphate	as P	mg/L	0.483	0.50	97	90-110	11/21/2025
Sample ID:	CCV1						
Orthophosphate	as P	mg/L	0.517	0.5	103	90-110	11/21/2025
Sample ID:	CCV2						
Orthophosphate	as P	mg/L	0.508	0.5	102	90-110	11/21/2025





Fax: 908 789 8922

Initial and Continuing Calibration Verification

Client: Holland Manufacturing Co. SDG No.: Q3701

Analyte		Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID: Phosphorus,	ICV Total	mg/L	0.494	0.50	99	90-110	11/21/2025
Sample ID: Phosphorus,	CCV1	mg/L	0.526	0.50	105	90-110	11/21/2025
Sample ID: Phosphorus,	CCV2	mg/L	0.517	0.50	103	90-110	11/21/2025



Fax: 908 789 8922

Initial and Continuing Calibration Verification

Client: Holland Manufacturing Co. SDG No.: Q3701

Analyte		Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID: Ammonia as N	ICV1	mg/L	1	1	100	90-110	11/25/2025
Sample ID: Ammonia as N	CCV1	mg/L	0.93	1	93	90-110	11/25/2025
Sample ID: Ammonia as N	CCV2	mg/L	0.98	1	98	90-110	11/25/2025
Sample ID: Ammonia as N	CCV3	mg/L	0.93	1	93	90-110	11/25/2025



Fax: 908 789 8922

Initial and Continuing Calibration Blank Summary

Client: Holland Manufacturing Co. SDG No.: Q3701

Analyte	Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID: ICB Orthophosphate as P	mg/L	0.007	0.0250	J	0.0038	0.05	11/21/2025
Sample ID: CCB1 Orthophosphate as P	mg/L	< 0.0250	0.0250	U	0.0038	0.05	11/21/2025
Sample ID: CCB2 Orthophosphate as P	mg/L	0.006	0.0250	J	0.0038	0.05	11/21/2025



Initial and Continuing Calibration Blank Summary

Client: Holland Manufacturing Co. SDG No.: Q3701

Analyte		Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID:	ICB	/-		0.0050	-	0 0045	0.05	11 /01 /0005
Phosphorus,	Total	mg/L	0.006	0.0250	J	0.0045	0.05	11/21/2025
Sample ID:	CCB1							
Phosphorus,	Total	mg/L	0.006	0.0250	J	0.0045	0.05	11/21/2025
Sample ID:	CCB2							
Phosphorus,	Total	mg/L	< 0.0250	0.0250	U	0.0045	0.05	11/21/2025



Initial and Continuing Calibration Blank Summary

Client: Holland Manufacturing Co. SDG No.: Q3701

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	11/25/2025
Sample ID: CCB1 Ammonia as N	mg/L	< 0.0500	0.0500	U	0.030	0.1	11/25/2025
Sample ID: CCB2 Ammonia as N	mg/L	< 0.0500	0.0500	U	0.030	0.1	11/25/2025
Sample ID: CCB3 Ammonia as N	mg/L	< 0.0500	0.0500	U	0.030	0.1	11/25/2025



Preparation Blank Summary

Client: Holland Manufacturing Co. SDG No.: Q3701

Project: Pre Treatment Plant 2025

Analyte	Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID: LB138011 Orthophosphate as P	IBL mg/L	0.006	0.0250	J	0.004	0.05	11/21/2025
Sample ID: LB138012 BOD5	2BL mg/L	< 0.2000	0.2000	U	0.20	2.0	11/21/2025
Sample ID: LB138018	BBL mg/L	1	2.0000	J	1	4	11/21/2025
Sample ID: LB138039 Oil and Grease	5BL mg/L	< 2.5000	2.5000	U	0.29	5.0	11/25/2025
Sample ID: PB170680 Phosphorus, Total	6BL mg/L	0.008	0.0250	J	0.005	0.05	11/21/2025
Sample ID: PB170732 Ammonia as N	2BL mg/L	< 0.0500	0.0500	U	0.03	0.1	11/25/2025



Fax: 908 789 8922

Matrix Spike Summary

Client: Holland Manufacturing Co. SDG No.: Q3701

Project: Pre Treatment Plant 2025 Sample ID: Q3616-05

Client ID: Composite MS 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	
Phosphorus, Total	mg/L	90-110	0.66		0.18		0.5	1	97		11/21/2025	_



Fax: 908 789 8922

Matrix Spike Summary

Client: Holland Manufacturing Co. SDG No.: Q3701

Project: Pre Treatment Plant 2025 Sample ID: Q3616-05

Client ID: Composite MSD 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	
Phosphorus, Total	mg/L	90-110	0.67		0.18		0.5	1	98		11/21/2025	•



Fax: 908 789 8922

Matrix Spike Summary

Client: Holland Manufacturing Co. SDG No.: Q3701

Project: Pre Treatment Plant 2025 **Sample ID:** Q3701-01

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	
Ammonia as N	mg/L	75-125	530	OR	462	OR	50	1	136	*	11/25/2025	
Orthophosphate as P	mg/L	90-110	0.51		0.033	J	0.5	1	96		11/21/2025	



Fax: 908 789 8922

Matrix Spike Summary

Client: Holland Manufacturing Co. SDG No.: Q3701

Project: Pre Treatment Plant 2025 **Sample ID:** Q3701-01

Client ID: EFFLUENTMSD Percent Solids for Spike Sample: 0

	** *.	Acceptance Limit %R	Spiked	Conc. Oualifier	Sample	Conc. Oualifier	Spike Added	Dilution	% Dan	Ougl	Analysis
Analyte	Units	Limit %K	Result	Quaimer	Result	Quanner	Added	Factor	Rec	Qual	Date
Ammonia as N	mg/L	75-125	529	OR	462	OR	50	1	134	*	11/25/2025
Orthophosphate as P	mg/L	90-110	0.52		0.033	J	0.5	1	97		11/21/2025



Fax: 908 789 8922

Matrix Spike Summary

Client: Holland Manufacturing Co. SDG No.: Q3701

Project: Pre Treatment Plant 2025 Sample ID: Q3701-01

Client ID: EFFLUENTMS 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	53.2		32.9		20.0	1	102		11/25/2025	-



Fax: 908 789 8922

Matrix Spike Summary

Client: Holland Manufacturing Co. SDG No.: Q3701

Project: Pre Treatment Plant 2025 **Sample ID:** Q3701-01

Client ID: EFFLUENTMSD 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	54.3		32.9		20.0	1	107		11/25/2025



Fax: 908 789 8922

Duplicate Sample Summary

Client: Holland Manufacturing Co. SDG No.: Q3701

Project: Pre Treatment Plant 2025 Sample ID: Q3616-05

Client ID: Composite DUP 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	
Phosphorus, Total	mg/L	+/-20	0.18		0.17		1	1.72		11/21/2025	



Fax: 908 789 8922

Duplicate Sample Summary

Client: Holland Manufacturing Co. SDG No.: Q3701

Project: Pre Treatment Plant 2025 Sample ID: Q3616-05

Client ID: Composite MSD 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
Phosphorus, Total	mg/L	+/-20	0.66		0.67		1	0.45		11/21/2025



Fax: 908 789 8922

Duplicate Sample Summary

Client: Holland Manufacturing Co. SDG No.: Q3701

Project: Pre Treatment Plant 2025 Sample ID: Q3676-04

Client ID: OUTFALL-DSN-002DUP 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	
TSS	mg/L	+/-5	2890		2890		1	0.05		11/21/2025	



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

Fax: 908 789 8922

Duplicate Sample Summary

Client: Holland Manufacturing Co. SDG No.: Q3701

Project: Pre Treatment Plant 2025 Sample ID: Q3700-04

Client ID: EFF-WWDUP 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	432		417		1	3.49		11/21/2025	



Fax: 908 789 8922

Duplicate Sample Summary

Client: Holland Manufacturing Co. SDG No.: Q3701

Project: Pre Treatment Plant 2025 **Sample ID:** Q3701-01

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	0.033	J	0.035	J	1	5.88		11/21/2025
Ammonia as N	mg/L	+/-20	462	OR	461	OR	1	0		11/25/2025
Ammonia as N	mg/L	+/-20	403	D	406	D	10	1		11/25/2025



Fax: 908 789 8922

Duplicate Sample Summary

Client: Holland Manufacturing Co. SDG No.: Q3701

Project: Pre Treatment Plant 2025 Sample ID: Q3701-01

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	0.51		0.52		1	0.78		11/21/2025
Ammonia as N	mg/L	+/-20	530	OR	529	OR	1	0		11/25/2025



Fax: 908 789 8922

Duplicate Sample Summary

Client: Holland Manufacturing Co. SDG No.: Q3701

Project: Pre Treatment Plant 2025 **Sample ID:** Q3701-01

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
Oil and Grease	mg/L	+/-18	53.2		54.3		1	2.05		11/25/2025





Laboratory Control Sample Summary

Client: Holland Manufacturing Co. SDG No.: Q3701

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID LB138011BS								_
Orthophosphate as P	mg/L	0.5	0.47		95	1	90-110	11/21/2025





Laboratory Control Sample Summary

Client: Holland Manufacturing Co. SDG No.: Q3701

Analyte		Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID BOD5	LB138012BS	mg/L	198	178		90	1	84.6-115.4	11/21/2025





Fax: 908 789 8922

Laboratory Control Sample Summary

Client: Holland Manufacturing Co. SDG No.: Q3701

Analyte		Units	True Value		onc. % ualifier Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID	LB138018BS							
TSS		mg/L	550	591	107	1	90-110	11/21/2025





Laboratory Control Sample Summary

Client: Holland Manufacturing Co. SDG No.: Q3701

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID LB138035BS								
Oil and Grease	mg/L	20.0	19.1		96	1	78-114	11/25/2025





Fax: 908 789 8922

Laboratory Control Sample Summary

Client: Holland Manufacturing Co. SDG No.: Q3701

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID PB170686BS								
Phosphorus, Total	mg/L	0.50	0.47		95	1	90-110	11/21/2025





Fax: 908 789 8922

Laboratory Control Sample Summary

Client: Holland Manufacturing Co. SDG No.: Q3701

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID PB170732BS								_
Ammonia as N	mg/L	1	1.00		100	1	90-110	11/25/2025



RAW DATA



Analytical Summary Report

Analysis Method: SM4500-P E ANALYST: Iwona

Parameter: Phosphorus-Ortho SUPERVISOR REVIEW BY: jignesh

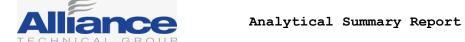
Run Number: LB138011

Reagent/Standard	Lot/Log #
calibration std. phosphate 1 ppm	WP115787
calibration std. phosphate 0.5 ppm	WP115786
calibration std. phosphate 0.3 ppm	WP115785
calibration std. phosphate 0.1 ppm	WP115784
calibration std. phosphate 0.05 ppm	WP115783
calibration std. 0 ppm	WP115782
phosphate CCV std.	WP115789
5N sulfuric acid	WP115340
Combined reagent	WP115795
Phenolphthalein indicator	WP113378
Sodium hydroxide, 1N	WP113878
Phosphate ICV-LCS Std	WP115788
Phosphate LOD-MDL Std 0.025ppm	WP115791
Phosphate RL CHECK	WP115796

Intercept: -0.0016 Slope: 0.6532 Regression: 0.999896

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	0.002		11/21/2025	12:00
2	CAL2	0.05	1	50	50	0.034	0.055	10	11/21/2025	12:00
3	CAL3	0.10	1	50	50	0.062	0.097	-3	11/21/2025	12:01
4	CAL4	0.30	1	50	50	0.188	0.29	-3.3	11/21/2025	12:01
5	CAL5	0.50	1	50	50	0.328	0.505	1	11/21/2025	12:02
6	CAL6	1.00	1	50	50	0.652	1.001	0.1	11/21/2025	12:02





Analysis Method: SM4500-P E ANALYST: Iwona

Parameter: Phosphorus-Ortho SUPERVISOR REVIEW BY: jignesh

Run Number: LB138011

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	0.314	0.483	11/21/2025	12:03
2	ICB		1	50	50	0.003	0.007	11/21/2025	12:03
3	CCV1	0.5	1	50	50	0.336	0.517	11/21/2025	12:04
4	CCB1		1	50	50	0.000	0.002	11/21/2025	12:04
5	RL Check	0.05	1	50	50	0.022	0.036	11/21/2025	12:05
6	LB138011BL		1	50	50	0.002	0.006	11/21/2025	12:05
7	LB138011BS	0.5	1	50	50	0.308	0.474	11/21/2025	12:06
8	Q3530-09		1	50	50	0.017	0.028	11/21/2025	12:06
9	Q3701-01		1	50	50	0.020	0.033	11/21/2025	12:07
10	Q3701-01DUP		1	50	50	0.021	0.035	11/21/2025	12:07
11	Q3701-01MS	0.5	1	50	50	0.334	0.514	11/21/2025	12:08
12	Q3701-01MSD	0.5	1	50	50	0.337	0.518	11/21/2025	12:08
13	CCV2	0.5	1	50	50	0.330	0.508	11/21/2025	12:09
14	CCB2		1	50	50	0.002	0.006	11/21/2025	12:09

Alliance TECHNICAL GROUP

QC BATCH ID: LB138012

BOD Water: WP115797

Starch: W3149

POLYSEED: WP115800

GGA: WP115798

Sulfuric acid, 1N: WP115342

Chlorine Strips: W3155

pH Strips: W3241

BOD5 LOG

On:11/26/2025 10:37:45 AM ANALYST: rubirInst Id:DO METER

Reviewed By:Iwona

LB :LB138012

SUPERVISOR: Iwona

Analysis Date: 11/21/2025

MANGANOUS SULFATE SOLUTION: W3103

Alkaline Iodide Azide: W3109

Sodium Thiosulfate, 0.025N: W3248

NaOH, 1N: WP113878

IncubatorID: INCUBATOR #3

GuageID: 0511064

Zero DO: WP115341

SOP ID: MSMS210B-BOD/CBOD

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

Meter Calibration1: 9.06 Zero DO Reading1: 0.10 mg/L (<=0.2 Criteria)

Barometric Pressure1: 760 mmHg DO Meter BOD fluid reading for winkler comparison: 9.68

After Incubation

Meter Calibration2: 8.74 Zero DO Reading2: 0.10 mg/L (<=0.2 Criteria)

Barometric Pressure2: 755 mmHg



QC BATCH ID: LB138012

INCUBATOR TEMP IN(C): 20.0

TIME IN: 15:20

DATE IN: 11/21/2025

INCUBATOR TEMP OUT (C): 20.0

TIME OUT: 10:00

DATE OUT: 11/26/2025

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
LB138012BL	1	No	6.56	N/A	20.70	300	9.67	9.65	0.02	0.02	0.02	
POLYSEED	1					10	9.55	6.57	2.98	0.6	0.61	
POLYSEED	2					15	9.53	4.99	4.54	0.61		
POLYSEED	3					20	9.50	3.18	6.32	0.63		
GGA	1					6	9.54	5.47	4.07	173	178	
GGA	2					6	9.56	5.41	4.15	177		
GGA	3					6	9.54	5.25	4.29	184		
Q3700-04	1	No	6.37	6.98	20.10	5	9.57	8.21	-	0	432	pH Adjuste
Q3700-04	2					10	9.55	7.36	2.19	474		
Q3700-04	3					20	9.50	6.25	3.25	396		
Q3700-04	4					30	9.48	4.61	4.87	426		
Q3700-04DUP	1	No	6.37	6.98	20.10	5	9.58	8.02	-	0	417.17	pH Adjuste
Q3700-04DUP	2					10	9.56	7.44	2.12	453		
Q3700-04DUP	3					20	9.52	6.36	3.16	382.5		
Q3700-04DUP	4					30	9.48	4.71	4.77	416		
Q3701-01	1	No	5.41	6.77	20.20	1	9.62	8.84	-	0	15330	pH Adjuste
Q3701-01	2					5	9.59	6.22	3.37	16560		
Q3701-01	3					10	9.56	4.25	5.31	14100		
Q3701-01	4					50	9.45	0.56	-	0		
Q3701-01	5					100	9.26	0.26	-	0		
Q3701-05	1	No	5.02	6.91	20.00	1	9.65	8.62	-	0	20445	pH Adjuste
Q3701-05	2					5	9.60	5.45	4.15	21240		
Q3701-05	3					10	9.54	2.38	7.16	19650		
Q3701-05	4					50	9.46	0.69	-	0		
Q3701-05	5					100	9.22	0.29	-	0		

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.

Reviewed By:Iwona On:11/26/2025 10:37:45 AM Inst Id :DO METER LB :LB138012

WORKLIST(Hardcopy Internal Chain)

16138012

WorkList ID: 193288

BOD5-11-21.

WorkList Name:

Department: Wet-Chemistry

	The second secon		93200	Department :	Wet-Chemistry	Da	Date: 11-21-2025 10:18:23	25 10:18:23	
Sample	Customer Sample	Matrix Test	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date Method	Method	
03700-04	FEE MAAA								
	LI-T-YVVV	Water	BODS	Cool 4 dea C					
Q3701-01	HEE LENT		111111111111111111111111111111111111111	O Root	AKDIMOT	E11	11/20/2025 SM5210 B	SM5210 B	
		water	BODS	Cool 4 dea C	200	250			
Q3701-05	INFLUENT	10/21			HOLLUI	D41	11/20/2025 SM5210 B	SM5210 B	
		water	BOD5	Cool 4 den C	200				
				0)	IJOEFO	D41	11/20/2025 SM5210 B	SM5210 B	

Date/Time 11/21/202

Raw Sample Received by:

Raw Sample Relinquished by:

Page 1 of 1

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: LB138013

Reagent/Standard	Lot/Log #
calibration std. phosphate 1 ppm	WP115787
calibration std. phosphate 0.5 ppm	WP115786
calibration std. phosphate 0.3 ppm	WP115785
calibration std. phosphate 0.1 ppm	WP115784
calibration std. phosphate 0.05 ppm	WP115783
calibration std. 0 ppm	WP115782
phosphate CCV std.	WP115789
5N sulfuric acid	WP115340
Combined reagent	WP115795
Phenolphthalein indicator	WP113378
Sodium hydroxide, 1N	WP113878
Phosphate LOD-MDL Std 0.025ppm	WP115791
Phosphate ICV-LCS Std	WP115788

Intercept: -0.0019 Slope: 0.6521 Regression: 0.999907

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	0.003		11/21/2025	13:20
2	CAL2	0.05	1	50	50	0.032	0.052	4	11/21/2025	13:20
3	CAL3	0.10	1	50	50	0.065	0.103	3	11/21/2025	13:21
4	CAL4	0.30	1	50	50	0.187	0.29	-3.3	11/21/2025	13:21
5	CAL5	0.50	1	50	50	0.324	0.5	0	11/21/2025	13:22
6	CAL6	1.00	1	50	50	0.652	1.003	0.3	11/21/2025	13:22



Analytical Summary Report



Analysis Method: 365.3 ANALYST: Iwona

Parameter: Phosphorus-Total SUPERVISOR REVIEW BY: jignesh

Run Number: LB138013

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	0.320	0.494	11/21/2025	13:23
2	ICB		1	50	50	0.002	0.006	11/21/2025	13:23
3	CCV1	0.50	1	50	50	0.341	0.526	11/21/2025	13:24
4	CCB1		1	50	50	0.002	0.006	11/21/2025	13:24
5	RL Check	0.05	1	50	50	0.024	0.040	11/21/2025	13:25
6	PB170686BL		1	50	50	0.003	0.008	11/21/2025	13:25
7	PB170686BS	0.50	1	50	50	0.307	0.474	11/21/2025	13:26
8	Q3530-09		1	50	50	0.013	0.023	11/21/2025	13:26
9	Q3616-05		1	50	50	0.113	0.176	11/21/2025	13:27
10	Q3616-05DUP		1	50	50	0.111	0.173	11/21/2025	13:27
11	Q3616-05MS	0.50	1	50	50	0.430	0.662	11/21/2025	13:28
12	Q3616-05MSD	0.50	1	50	50	0.432	0.665	11/21/2025	13:28
13	Q3701-01		1	50	50	0.051	0.081	11/21/2025	13:29
14	CCV2	0.50	1	50	50	0.335	0.517	11/21/2025	13:29
15	CCB2		1	50	50	0.001	0.004	11/21/2025	13:30



TOTAL SUSPENDED SOLIDS - SM2540D

SUPERVISOR: Iwona

ANALYST: jignesh

Date: 11/20/2025

Run Number: LB138018

104 °C 11/20/2025 13:30 TEMP1 OUT: 103 °C 11/20/2025 14:30 TEMP1 IN: BalanceID: WC SC-5 104 °C 11/20/2025 15:30 TEMP2 OUT: 104 °C 11/20/2025 16:30 TEMP2 IN: OvenID: WC OVEN-1 103 °C 11/21/2025 17:00 104 °C 11/21/2025 15:30 TEMP3 OUT: **FilterID:** 17416528 TEMP3 IN: 104 °C 11/21/2025 17:30 TEMP4 OUT: 103 °c 11/21/2025 18:37 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	LB138018BL	LB138018BL	1.4863	1.4863	100	1.4864	1.4864	1.4864	0.0001	1
2	LB138018BS	LB138018BS	1.3523	1.3523	100	1.4114	1.4114	1.4114	0.0591	591
3	Q3675-02	COMP	1.4834	1.4835	200	1.5110	1.5110	1.5110	0.0275	137.5
4	Q3676-01	OUTFALL-DSN-001	1.4880	1.4881	1000	1.5979	1.5980	1.5980	0.1099	109.9
5	Q3676-04	OUTFALL-DSN-002	1.4946	1.4946	300	2.3626	2.3626	2.3626	0.8680	2893.3
6	Q3676-04DUP	OUTFALL-DSN-002DUP	1.4835	1.4835	300	2.3519	2.3519	2.3519	0.8684	2894.7
7	Q3690-01	RW8-SP100-20251118	1.4791	1.4791	1800	1.4799	1.4799	1.4799	0.0008	0.4
8	Q3690-02	RW8-SP303-20251118	1.4987	1.4987	1200	1.4989	1.4989	1.4989	0.0002	0.2
9	Q3700-04	EFF-WW	1.4737	1.4737	1000	1.5528	1.5528	1.5528	0.0791	79.1
10	Q3701-01	EFFLUENT	1.4977	1.4977	40	1.5391	1.5391	1.5391	0.0414	1035
11	Q3701-04	AERATION	1.5013	1.5013	30	1.5472	1.5472	1.5472	0.0459	1530
12	Q3703-01	SW-2	1.4802	1.4803	650	1.5178	1.5178	1.5178	0.0375	57.7
13	Q3704-01	SW-2	1.4103	1.4104	950	1.4139	1.4139	1.4139	0.0035	3.7



TOTAL SUSPENDED SOLIDS - SM2540D

SUPERVISOR: Iwona

ANALYST: jignesh

Date: 11/20/2025

Run Number: LB138018

104 °C 11/20/2025 13:30 TEMP1 OUT: 103 °c 11/20/2025 14:30 TEMP1 IN: BalanceID: WC SC-5 104 °C 11/20/2025 15:30 TEMP2 OUT: 104 °C 11/20/2025 16:30 TEMP2 IN: OvenID: WC OVEN-1 104 °C 11/21/2025 15:30 TEMP3 OUT: 103 °C 11/21/2025 17:00 TEMP3 IN: **FilterID:** 17416528 104 °C 11/21/2025 17:30 TEMP4 OUT: 103 °c 11/21/2025 18:37 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)	Final Empty Dish+Sample weight after 1.5hr drying @103-@105°C (g)	Weight (g)	Result mg/L

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)

WorkList ID: 193293

WorkList Name: tss q3703

81080 Dr

Department: Wet-Chemistry

Date: 11-21-2025 12:53:18

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date Method	Method
Q3675-02	СОМР	Water	TSS	Cool 4 dea C	ARAM01	F11	3000001111	SMOE 40 D
Q3676-01	OUTFALL-DSN-001	Water	TSS	Cool 4 dea C	TRIS02	1	44/40/2025	O DACONIO
Q3676-04	OUTFALL-DSN-002	Water	TSS	Cool 4 dea C	TRISO2	1 <u>1</u> 2	11/10/2023	
Q3690-01	RW8-SP100-20251118	Water	TSS	Cool 4 dea C	TETROS			SMZ540 D
Q3690-02	RW8-SP303-20251118	Water	TSS	Cool 4 dea C	TETDOS	24	11/16/2025	SMZ540 D
Q3700-04	EFF-WW	Water	TSS	Cool 4 dea C	ADDAMO!		11/18/2025 SM2540 D	SM2540 D
Q3701-01	EFFLUENT	Water	TSS	0 20 1 100 J			11/20/2025 SM2540 D	SM2540 D
Q3701-04	AERATION	Water	SSL	Cool 4 deg C	HOLLUI	147	11/20/2025	SM2540 D
Q3703-01	SW-2	Water	TSS	Cool 4 deg C	ATOCOL	24	11/20/2025	SM2540 D
Q3704-01	SW-2	Water	TSS	Cool 4 deg C	ALGG01	240	11/18/2025 SM2540 D	SM2540 D
03705-01	MH 11212025	Water	138	Cool 4 dea C	FURDOR	150	11/18/2025 SM2540 D	SM2540 D
				- Down	2000	140	11/21/2025 SM2540 D	SM2540 D

H Stores

11.22.4025

Date/Time 11/21/25

Date/Time 11/21/25 13:10

Raw Sample Relinquished by:

Raw Sample Received by:

Raw Sample Received by:

Reviewed By:Iwona On:11/25/2025 11:37:09 AM Inst Id :WC SC-3

Raw Sample Relinquished by:

Page 1 of 1



Extraction and Analytical Summary Report

Analysis Method: 1664A

Test: Oil and Grease

Run Number: LB138035

Analysis Date: 11/25/2025

BalanceID: WC SC-5

OvenID: EXT OVEN-3

ANALYST: jignesh

REVIEWED BY: Iwona

Extraction Date: 11/25/2025

Extration IN Time: 10:10

Extration OUT Time: $\overline{10:40}$

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	LB138035BL	LB138035BL	WATER	1.3	1000	100	3.0214	3.0214	0	3.0215	3.0215	0.0001	0.1
2	LB138035BS	LB138035BS	WATER	1.3	1000	100	3.1966	3.1966	0	3.2157	3.2157	0.0191	19.1
3	Q3701-01	EFFLUENT	WATER	1.6	1000	100	3.0633	3.0633	0	3.0962	3.0962	0.0329	32.9
4	Q3701-02	Q3701-01MS	WATER	1.6	1000	100	2.7441	2.7441	0	2.7973	2.7973	0.0532	53.2
5	Q3701-03	Q3701-01MSD	WATER	1.6	1000	100	2.8936	2.8936	0	2.9479	2.9479	0.0543	54.3
6	Q3705-01	MH-11212025	WATER	1.6	1000	100	3.1254	3.1254	0	3.5119	3.5119	0.3865	386.5
7	Q3705-02	MH-11212025	WATER	1.6	1000	100	3.1023	3.1023	0	3.5081	3.5081	0.4058	405.8
8	Q3705-03	MH-11212025	WATER	1.6	1000	100	2.7413	2.7413	0	3.1485	3.1485	0.4072	407.2



QC Batch# LB138035

Test: Oil and Grease

Analysis Date: 11/25/2025

Chemicals Used:

Chemical Name	Chemical Lot #				
HEXANE	W3240				
pH Paper 0-14	M6069				
Sodium Sulfate	EP2663				
1:1 HCL	WP115016				
Silica Gel	N/A				
Sand	N/A				

Standards Used:

Standard Name	Amount Used	Standard Lot #
LCSW	2.5 ML	WP115017
LCSWD	N/A	N/A
MS/MSD	2.5 ML	WP115018

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 : 12:11

1.0000 gram Balance: 1.0004 (0.9950-1.0050) In Time1: 11:30

Bal Check Time: 10:20 Out OVEN TEMP1: 71 °C Dessicator Time Out1: 12:45

Out Time1: 12:10

After Analysis

0.0020 gram Balance: 0.0019 (0.0018-0.0022) In OVEN TEMP2 : 70 °C Dessicator Time In2 : 14:01

1.0000 gram Balance: 1.0005 (0.9950-1.0050) In Time2: 13:15

Bal Check Time: 14:37 Out OVEN TEMP2: 70 °C Dessicator Time Out2: 14:35

Out Time2: 14:00

Reviewed By:Iwona On:11/25/2025 11:36:42 AM Inst Id :WC SC-3 LB :LB138035

JE0881 W

WORKLIST(Hardcopy Internal Chain) WorkList ID: 193337 OIL & GREASE Q3705 WorkList Name:

	5 09:41:08	Method			16644	VIII.	1664A	10000	1664A		1664A		1664A		1664
	Date: 11-25-2025 09:41:08	Collect Date Method			11/20/2025 16644		11/20/2025 16644		11/20/2025 1664A		11/21/2025 1664A		11/21/2025 1664A		11/21/2025 15518
	Dat	Raw Sample Storage			D41		D41		D41		D41		D41	56	D4.1
1	Criemistry	Customer			HOLL01		HOLL01		HOLL01	-	EUROU3	i	EURO03	FIIBOns	2000
Department · · · /A/ot Observed		Preservative			Conc HZSO4 to pH < 2	Con Union A Monday	COILC FIZSO4 to pH < 2	Con Honor	COILC 1125/04 to pH < 2	Conc H2SO4 to pH / 2	2 > 11d 0) to 22 :	Conc H2SO4 to all 4.5	2 > Hd 01 +00211 0::00	Conc H2SO4 to pH < 2	1
D: 193337		Test		Oil and Grease		Oil and Grease		Oil and Grease		Oll and Grease		Oll and Grease		Oll and Grease	
WorkList ID:		Matrix		Water		Water		Water		Mare	Water		1	water	
SIE & SINEASE &3/03		Customer Sample	1	ELLCENI	O3701-01MS	Own of the	Q3701-01MSD		MH-11212025		MH-11212025		MH-11212025		
	Sample		03701-01	ELLCOENI	Q3701-02		Q3701-03		Q3705-01		Q3705-02		Q3705-03		

11/21/2025 1664A

Date/Time 11:25-25

Raw Sample Received by:

Raw Sample Relinquished by:

Page 1 of 1

10,000

Date/Time 11-75-75 Raw Sample Received by:

Raw Sample Relinquished by:

Reviewed By:Iwona
On:11/25/2025 4:57:09
Lb (38 PM Inst Id :Konelab 20 LB :LB138039

_______ Test results

Aquakem 7.2AQ1

Alliance Technical Group 284 Sheffield Street, Mountainside, NJ 07092

Reviewed by : RM Instrument ID : Konelab

11/25/2025 12:22

Test: Ammonia-N

Mean

SD

CV%

2.827

4.0197

142.19

Sample Id	Result	Dil. 1 +	Response	Errors
CCV2 CCB2 Q3701-01DLX10 Q3701-01DUPDLX10 Q3701-05DLX5 CCV3 CCB3	1.030 -0.002 0.927 -0.006 0.077 0.009 1.034 9.243 9.218 10.598 10.587 6.365 0.981 0.001 0.807 0.812 1.104 0.932 -0.005	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.214 0.020 0.194 0.020 0.035 0.022 0.215 1.753 1.748 2.007 2.005 1.214 0.205 0.021 0.172 0.173 0.228 0.195 0.020	77/ (So-ISo) III25/2025 RH Test limit high Test limit high
N	19			

Aquakem v. 7.2AQ1

Results from time period:

Tue Nov 25 10:50:08 2025

Tue Nov 25 12:16:22 2025

14011012012,10,22	2020				
Sample Id	Sar	m/Ctr/c/ Test short r Test type	Result	Result unit	Result date and time
0.0PPM	Α	Ammonia-1 P	0.0118		11/25/2025 10:50:08
0.1PPM	Α	Ammonia-NP	0.1088	-	11/25/2025 10:50:09
0.2PPM	Α	Ammonia-NP	0.1909	_	11/25/2025 10:50:10
0.4PPM	Α	Ammonia-NP	0.3769	mg/l	11/25/2025 10:50:11
1.0PPM	Α	Ammonia-1 P	1.011	-	11/25/2025 10:50:12
1.3PPM	Α	Ammonia-NP	1.3362	•	11/25/2025 10:50:13
2.0PPM	Α	Ammonia-NP	1.9977	_	11/25/2025 10:50:14
ICV1	S	Ammonia-NP	1.0301	mg/l	11/25/2025 11:32:39
ICB1	S	Ammonia-1 ^A P	-0.002 1	-	11/25/2025 11:32:42
CCV1	S	Ammonia-NP	0.9269 r	•	11/25/2025 11:32:44
CCB1	S	Ammonia-NP	-0.0062 r	-	11/25/2025 11:32:45
RL CHECK	S	Ammonia-1 P	0.0769 r	-	11/25/2025 11:32:48
PB170732BL	S	Ammonia-NP	0.009 n	•	11/25/2025 11:43:22
PB170732BS	S	Ammonia-1 P	1.0343 n	_	11/25/2025 11:43:23
Q3701-01	S	Ammonia-NP	9.2434 n	_	11/25/2025 11:43:26
Q3701-01DUP	S	Ammonia-NP	9.2176 n	=	11/25/2025 11:43:27
Q3701-01MS	S	Ammonia-1 P	10.5983 m	_	11/25/2025 11:43:29
Q3701-01MSD	S	Ammonia-NP	10.587 m	_	11/25/2025 11:43:31
Q3701-05	S	Ammonia-1 P	6.3649 m	-	11/25/2025 11:50:34
CCV2	S	Ammonia-NP	0.9811 m	_	11/25/2025 11:50:35
CCB2	S	Ammonia-NP	0.0015 m		11/25/2025 11:50:38
Q3701-01DLX10	S	Ammonia-NP	0.8068 m	·	11/25/2025 12:16:13
Q3701-01DUPDLX10	S	Ammonia-NP	0.812 m	-	11/25/2025 12:16:16
Q3701-05DLX5	S	Ammonia-1 P	1.1035 m	_	11/25/2025 12:16:18
CCV3	S	Ammonia-NP	0.932 m	_	11/25/2025 12:16:20
CCB3	S	Ammonia-1 P	-0.0049 m		11/25/2025 12:16:22
			,	-	

Calibration results

Aquakem 7.2AQ1

Page:

Alliance Technical Group 284 Sheffield Street, Mountainside, NJ 07092

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

11/25/2025 10:54

Test Ammonia-N

Accepted

11/25/2025 10:54

Factor

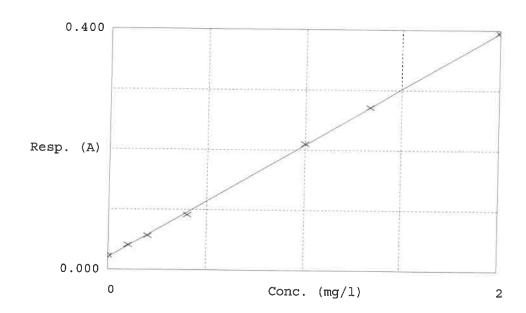
5.335

Bias

0.021

Coeff. of det. 0.999713

Errors



	Calibrator	Response	Calc. con.	Conc.	Errors
2 3 4 5	0.00PPM NH3-2PPM NH3-2PPM NH3-2PPM NH3-2PPM NH3-2PPM NH3-2PPM	0.023 0.041 0.056 0.091 0.210 0.271 0.395	0.0118 0.1088 0.1909 0.3769 1.0110 1.3362 1.9977	0.0000 0.1000 0.2000 0.4000 1.0000 1.3333 2.0000	0.8 -4.6 -5.8 1.1 2-8

11/25/2025 RM

Water Ammonia Preparation Sheet



SOP ID: MSM4500-NH3 B,G-Ammonia-18

SDG No : N/A Start Digest Date: 11/25/2025 Time : 09:10 Temp : 150 °C

Pippete ID: WC

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: 12

Standared Name	MLS USED	STD REF. # FROM LOG	
LCSW	1.0ML	WP115589	
MS/MSD SPIKE SOL.	1.0ML	WP115588	
PBW	50.0ML	W3112	
RL CHECK	0.1ML	WP115588	
N/A	N/A	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	WP115336		
pH strip-Ammonia	N/A	W3133		
KI-starch paper	N/A	W3155		
N/A	N/A	N/A		
N/A	N/A	N/A		
N/A	N/A	N/A		
N/A	N/A	N/A		
V/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.Due to bad matrix and client history 1ML was taken as an initial volume for Q3701-01 and Q3701-05.

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location	
175/2025 10.75	RHLWG	RHLWG	
-	Preparation Group	Analysis Group	



Water Ammonia Preparation Sheet

PB170732

Lab Sample ID	Client Sample ID	Initial Vol (ml)	Final Vol (ml)	рH	Sulfide	Oxidizing	Nitrate/ Nitrite	Comment	Prep
PB170732BL	PBW732	50	50	<2	N/A	Negative	N/A	AFTER ADDING 6N NAOH PH IS 9.5	N/A
PB170732BS	LCS732	50	50	<2	N/A	Negative	N/A	AFTER ADDING 6N NAOH PH IS 9.5	N/A
Q3701-01DUP	EFFLUENTDUP	1	50	<2	N/A	Negative	N/A	AFTER ADDING 6N NAOH PH IS 9.5	N/A
Q3701-01MS	EFFLUENTMS	1	50	<2	N/A	Negative	N/A	AFTER ADDING 6N NAOH PH IS 9.5	N/A
Q3701-01MSD	EFFLUENTMSD	1	50	<2	N/A	Negative	N/A	AFTER ADDING 6N NAOH PH IS 9.5	N/A
Q3701-01 	EFFLUENT	1	50	<2	N/A	Negative	N/A	AFTER ADDING 6N NAOH PH IS 9.5	N/A
Q3701-05 	INFLUENT	1	50	<2	N/A	Negative	N/A	AFTER ADDING 6N NAOH PH IS 9.5	N/A

WORKLIST(Hardcopy Internal Chain)

Department: Distillation WorkList ID: 193328 AMMONIA-Q3701 WorkList Name:

SM4500-NH3 Date: 11-24-2025 16:37:51 Collect Date Method 11/20/2025 Raw Sample Storage Location D41 D41 HOLL01 HOLL01 Customer Conc H2SO4 to pH < 2 Conc H2SO4 to pH < 2 Preservative Ammonia Ammonia Test Matrix Water Water **Customer Sample** EFFLUENT INFLUENT Q3701-05 Q3701-01 Sample

11/20/2025 SM4500-NH3

Raw Sample Received by: Date/Time

Raw Sample Relinquished by:

Page 1 of 1

Raw Sample Received by:

Date/Time

Raw Sample Relinquished by:



Instrument ID: SPECTROPHOTOMETER-1

Review By	lwo	ona	Review On	11/21/2025 3:46:28 PM
Supervise By	jignesh S		Supervise On	11/21/2025 4:34:53 PM
SubDirectory	LB′	138011	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 WP115787,WP115786,WP115785,WP115784,WP115783,WP115782			WP115785,WP115784,WP115783,WP1	15782,WP115789,WP115340,WP115795,WP113378,V

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	CAL1	CAL1	CAL	11/21/25 12:00		Iwona	ОК
2	CAL2	CAL2	CAL	11/21/25 12:00		lwona	ОК
3	CAL3	CAL3	CAL	11/21/25 12:01		lwona	ОК
4	CAL4	CAL4	CAL	11/21/25 12:01		lwona	ОК
5	CAL5	CAL5	CAL	11/21/25 12:02		lwona	ОК
6	CAL6	CAL6	CAL	11/21/25 12:02		lwona	ОК
7	ICV	ICV	ICV	11/21/25 12:03		Iwona	ОК
8	ICB	ICB	ICB	11/21/25 12:03		Iwona	ОК
9	CCV1	CCV1	CCV	11/21/25 12:04		lwona	ОК
10	CCB1	CCB1	ССВ	11/21/25 12:04		lwona	ОК
11	RL Check	RL Check	RL	11/21/25 12:05		Iwona	ОК
12	LB138011BL	LB138011BL	MB	11/21/25 12:05		lwona	ОК
13	LB138011BS	LB138011BS	LCS	11/21/25 12:06		Iwona	ОК
14	Q3530-09	MDL-WATER-03-QT4	SAM	11/21/25 12:06		lwona	ОК
15	Q3701-01	EFFLUENT	SAM	11/21/25 12:07		lwona	ОК
16	Q3701-01DUP	EFFLUENTDUP	DUP	11/21/25 12:07		Iwona	ОК
17	Q3701-01MS	EFFLUENTMS	MS	11/21/25 12:08		Iwona	ОК
18	Q3701-01MSD	EFFLUENTMSD	MSD	11/21/25 12:08		lwona	OK





Instrument ID: SPECTROPHOTOMETER-1

Review By	lwona		Review On	11/21/2025 3:46:28 PM
Supervise By	jignesh		Supervise On	11/21/2025 4:34:53 PM
SubDirectory	LB1	138011	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 WP115787,WP115786,WP115785,WP115784,WP115783,WP1			WP115785,WP115784,WP115783,WP1	15782,WP115789,WP115340,WP115795,WP113378,V

19	CCV2	CCV2	CCV	11/21/25 12:09	lwona	ок
20	CCB2	CCB2	ССВ	11/21/25 12:09	Iwona	ок



Instrument ID: DO METER

Review By	Review By rubina		Review On	11/26/2025 10:37:20 AM
Supervise By	lwc	ona	Supervise On	11/26/2025 10:37:45 AM
SubDirectory	LB	138012	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 WP115797,W3149,WP115342,W3103,W3109,W3248,WP115			115342,W3103,W3109,W3248,WP1158	900,WP115798,WP113878

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	LB138012BL	LB138012BL	МВ	11/21/25 15:20		RUBINA	ок
2	LB138012BS	12BS LB138012BS		11/21/25 15:20		RUBINA	ок
3	Q3700-04	EFF-WW	SAM	11/21/25 15:20		RUBINA	ОК
4	Q3700-04DUP	EFF-WWDUP	DUP	11/21/25 15:20		RUBINA	ОК
5	Q3701-01	EFFLUENT	SAM	11/21/25 15:20		RUBINA	ОК
6	Q3701-05	INFLUENT	SAM	11/21/25 15:20		RUBINA	ОК



Instrument ID: SPECTROPHOTOMETER-1

Review By	view By Iwona		Review On	11/21/2025 4:10:51 PM
Supervise By	jign	nesh	Supervise On	11/21/2025 4:34:37 PM
SubDirectory	LB′	138013	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 WP115787,WP115786,WP115785,WP115784,WP115783,WP1			WP115785,WP115784,WP115783,WP1	15782,WP115789,WP115340,WP115795,WP113378,V

Sr#	Sampleld	ClientID	QcType	Date	Comment	Operator	Status
1	CAL1	CAL1	CAL	11/21/25 13:20		lwona	ОК
2	CAL2	CAL2	CAL	11/21/25 13:20		lwona	ОК
3	CAL3	CAL3	CAL	11/21/25 13:21		lwona	ОК
4	CAL4	CAL4	CAL	11/21/25 13:21		lwona	ОК
5	CAL5	CAL5	CAL	11/21/25 13:22		lwona	ОК
6	CAL6	CAL6	CAL	11/21/25 13:22		lwona	ОК
7	ICV	ICV	ICV	11/21/25 13:23		lwona	ОК
8	ICB	ICB	ICB	11/21/25 13:23		lwona	ОК
9	CCV1	CCV1	CCV	11/21/25 13:24		lwona	ОК
10	CCB1	CCB1	ССВ	11/21/25 13:24		lwona	ОК
11	RL Check	RL Check	RL	11/21/25 13:25		lwona	ОК
12	PB170686BL	PB170686BL	MB	11/21/25 13:25		lwona	ОК
13	PB170686BS	PB170686BS	LCS	11/21/25 13:26		lwona	ОК
14	Q3530-09	MDL-WATER-03-QT4	SAM	11/21/25 13:26		lwona	ОК
15	Q3616-05	Composite	SAM	11/21/25 13:27		lwona	ОК
16	Q3616-05DUP	Composite DUP	DUP	11/21/25 13:27		lwona	ОК
17	Q3616-05MS	Q3616-05MS Composite MS		11/21/25 13:28		lwona	ОК
18	Q3616-05MSD	Composite MSD	MSD	11/21/25 13:28		lwona	OK



Instrument ID: SPECTROPHOTOMETER-1

Review By	lwona	Review On	11/21/2025 4:10:51 PM	
Supervise By	jignesh	Supervise On	11/21/2025 4:34:37 PM	
SubDirectory	LB138013	Test	Phosphorus-Total	
STD. NAME	STD I	REF.#		
ICAL Standard	N/A			
ICV Standard	N/A			
CCV Standard	N/A			
ICSA Standard	N/A			
CRI Standard	N/A			
LCS Standard				
Chk Standard WP115787,WP115786,WP115785,WP115784,WP115783,WP			783,WP115782,WP115789,WP115340,WP115795,WP113378,V	

19	Q3701-01	EFFLUENT	SAM	11/21/25 13:29	lwona	OK
20	CCV2	CCV2	CCV	11/21/25 13:29	lwona	OK
21	CCB2	CCB2	ССВ	11/21/25 13:30	lwona	ОК



Instrument ID: WC SC-3

Review By	eview By jignesh		Review On	11/25/2025 11:13:12 AM
Supervise By	lwo	ona	Supervise On	11/25/2025 11:37:09 AM
SubDirectory	LB	138018	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	LB138018BL	LB138018BL		11/21/25 15:30		jignesh	ОК
2	LB138018BS	LB138018BS	LCS	11/21/25 15:30	55 MG W3186 + 100 ML W3112	jignesh	ОК
3	Q3675-02	COMP	SAM	11/21/25 15:30		jignesh	ОК
4	Q3676-01	OUTFALL-DSN-001	SAM	11/21/25 15:30		jignesh	ОК
5	Q3676-04	OUTFALL-DSN-002	SAM	11/21/25 15:30		jignesh	ОК
6	Q3676-04DUP	OUTFALL-DSN-002D	DUP	11/21/25 15:30		jignesh	ОК
7	Q3690-01	RW8-SP100-2025111	SAM	11/21/25 15:30		jignesh	ОК
8	Q3690-02	RW8-SP303-2025111	SAM	11/21/25 15:30		jignesh	ОК
9	Q3700-04	EFF-WW	SAM	11/21/25 15:30		jignesh	ОК
10	Q3701-01	EFFLUENT	SAM	11/21/25 15:30		jignesh	ОК
11	Q3701-04 AERATION		SAM	11/21/25 15:30		jignesh	ОК
12	Q3703-01 SW-2		SAM	11/21/25 15:30		jignesh	ОК
13	Q3704-01	SW-2	SAM	11/21/25 15:30		jignesh	ОК



Instrument ID: WC SC-3

Review By	By jignesh		Review On	11/25/2025 10:37:47 AM	
Supervise By	lwon	na	Supervise On	11/25/2025 11:36:42 AM	
SubDirectory	LB13	38035	Test	Oil and Grease	
STD. NAME	STD. NAME STD REF.#				
ICAL Standard	ICAL Standard N/A				
ICV Standard		N/A			
CCV Standard		N/A			
ICSA Standard		N/A			
CRI Standard		N/A			
LCS Standard	Standard N/A				
Chk Standard W3240,M6069,EP2663,WP115016,N/A,N/A,WP115017,N/A,W			WP115016,N/A,N/A,WP115017,N/A,WF	P115018	

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	LB138035BL	LB138035BL	МВ	11/25/25 11:30		jignesh	ок
2	LB138035BS	LB138035BS	LCS	11/25/25 11:30		jignesh	ок
3	Q3701-01	EFFLUENT	SAM	11/25/25 11:30		jignesh	ОК
4	Q3701-02	Q3701-01MS	MS	11/25/25 11:30		jignesh	ОК
5	Q3701-03	Q3701-01MSD	MSD	11/25/25 11:30		jignesh	ок
6	Q3705-01	MH-11212025	SAM	11/25/25 11:30		jignesh	ОК
7	Q3705-02	MH-11212025	SAM	11/25/25 11:30		jignesh	ОК
8	Q3705-03	MH-11212025	SAM	11/25/25 11:30		jignesh	ок



Instrument ID: KONELAB

Review By RUBINA		Review On	11/25/2025 4:56:55 PM				
Supervise By	Supervise By Iwona		Supervise On	11/25/2025 4:57:09 PM			
SubDirectory	LB	138039	Test	Ammonia			
STD. NAME		STD REF.#					
ICAL Standard		WP115818					
ICV Standard		WP115820					
CCV Standard		WP115819					
ICSA Standard		N/A					
CRI Standard		N/A					
LCS Standard		WP115589					
Chk Standard		WP115821,WP114133,V	WP113929,WP114132				

Sr#	Sampleld	ClientID	QcType	Date	Comment	Operator	Status
1	0.0PPM	0.0PPM	CAL1	11/25/25 10:50		rubina	ОК
2	0.1PPM	0.1PPM	CAL2	11/25/25 10:50		rubina	ОК
3	0.2PPM	0.2PPM	CAL3	11/25/25 10:50		rubina	ОК
4	0.4PPM	0.4PPM	CAL4	11/25/25 10:50		rubina	ОК
5	1.0PPM	1.0PPM	CAL5	11/25/25 10:50		rubina	ОК
6	1.3PPM	1.3PPM	CAL6	11/25/25 10:50		rubina	ОК
7	2.0PPM	2.0PPM	CAL7	11/25/25 10:50		rubina	ОК
8	ICV1	ICV1	ICV	11/25/25 11:32		rubina	ОК
9	ICB1	ICB1	ICB	11/25/25 11:32		rubina	ОК
10	CCV1	CCV1	CCV	11/25/25 11:32		rubina	ОК
11	CCB1	CCB1	ССВ	11/25/25 11:32		rubina	ОК
12	RL	RL	LOQ	11/25/25 11:32		rubina	ОК
13	PB170732BL	PB170732BL	МВ	11/25/25 11:43		rubina	ОК
14	PB170732BS	PB170732BS	LCS	11/25/25 11:43		rubina	ОК
15	Q3701-01	EFFLUENT	SAM	11/25/25 11:43	High	rubina	Dilution
16	Q3701-01DUP	EFFLUENTDUP	DUP	11/25/25 11:43	High	rubina	Dilution
17	Q3701-01MS	EFFLUENTMS	MS	11/25/25 11:43		rubina	ОК
18	Q3701-01MSD	EFFLUENTMSD	MSD	11/25/25 11:43		rubina	OK



Instrument ID: KONELAB

Review By	RUBINA	Review On	11/25/2025 4:56:55 PM
Supervise By	lwona	Supervise On	11/25/2025 4:57:09 PM
SubDirectory	LB138039	Test	Ammonia
STD. NAME	STD REF.	#	
ICAL Standard	WP115818		
ICV Standard	WP115820		
CCV Standard	WP115819		
ICSA Standard	N/A		
CRI Standard	N/A		
LCS Standard	WP115589		
Chk Standard	WP115821,W	P114133,WP113929,WP114132	

19	Q3701-05	INFLUENT	SAM	11/25/25 11:50	High	rubina	Dilution
20	CCV2	CCV2	CCV	11/25/25 11:50		rubina	ок
21	CCB2	CCB2	ССВ	11/25/25 11:50		rubina	ок
22	Q3701-01DL	EFFLUENTDL	SAM	11/25/25 12:16	Report 10X	rubina	Confirms
23	Q3701-01DUPDL	EFFLUENTDUPDL	DUP	11/25/25 12:16	Report 10X	rubina	Confirms
24	Q3701-05DL	INFLUENTDL	SAM	11/25/25 12:16	Report 5X	rubina	Confirms
25	CCV3	CCV3	CCV	11/25/25 12:16		rubina	ОК
26	CCB3	CCB3	ССВ	11/25/25 12:16		rubina	ОК



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

8900, Fax: 908 789 8922

Prep Standard - Chemical Standard Summary

Order ID: Q3701

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

Prepbatch ID: PB170686,PB170732,

Sequence ID/Qc Batch ID: LB138011,LB138012,LB138013,LB138018,LB138035,LB138039,

Standard ID:

EP2663,WP113378,WP113878,WP113885,WP113886,WP113887,WP113929,WP114132,WP114133,WP115016,WP11 5017,WP115018,WP115085,WP115086,WP115089,WP115336,WP115340,WP115342,WP115558,WP115559,WP11558 8,WP115789,WP115782,WP115783,WP115784,WP115785,WP115786,WP115787,WP115788,WP115789,WP115790,WP115791,WP115792,WP115793,WP115794,WP115795,WP115796,WP115797,WP115798,WP115800,WP115818,WP 115819,WP115820,WP115821,

Chemical ID:

E3875, E3972, M6069, M6151, M6186, W2306, W2650, W2653, W2664, W2663, W2664, W2666, W2788, W2817, W2871, W3009, W3035, W3082, W3103, W3109, W3112, W3113, W3132, W3133, W3149, W3155, W3195, W3196, W3201, W3202, W3206, W3222, W3240, W3241, W3243, W3248, W3252, W3253, W3149, W3155, W3196, W3196, W3201, W3202, W3206, W3201, W3202, W3206, W3201, W3202, W3206, W3201, W3202, W3202, W3201, W3202, W3202, W3201, W3202, W3202,



Extractions STANDARD PREPARATION LOG

Recipe ID	NAME.	NO.	Prep Date	Expiration Date	Prepared By	<u>ScaleID</u>	<u>PipetteID</u>	Supervised By Riteshkumar Patel
3923	Baked Sodium Sulfate	EP2663	11/20/2025	05/20/2026	RUPESHKUMA	Extraction_SC	None	
					R SHAH	ALE_2		11/20/2025
	4000 00000 man of E2075 — Final C		00.000 =====			(EX-SC-2)		

FROM	4000.00000gram of E3875	= Final Quantity: 4000.000	gram
-------------	-------------------------	----------------------------	------

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
1213	Phenolphthalein indicator	WP113378	06/04/2025	12/04/2025	Iwona Zarych	WETCHEM_S	None	
						CALE_5 (WC		06/05/2025

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



Alliance

Fax: 908 789 8922

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	
1571	Sodium hydroxide, 1N	WP113878	07/09/2025	12/31/2025	Iwona Zarych	WETCHEM_S	None	g	
	•					CALE_7 (WC		07/09/2025	
FROM	FROM 4.00000gram of W3113 + 96.00000ml of W3112 = Final Quantity: 100.000 ml								

<u>rom</u>	4.00000gram of W3113 + 96.00000ml of W3112 = Final Quantity: 100.000 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
1796	NaOH, 0.1N	WP113885	07/10/2025	12/31/2025	Rubina Mughal	WETCHEM_S	None	
						CALE_8 (WC		07/10/2025

FROM 4.00000gram of W3113 + 996.00000ml of W3112 = Final Quantity: 1000.000 ml





Wet Chemistry STANDARD PREPARATION LOG

Recipe				Expiration	<u>Prepared</u>			Supervised By	
<u>ID</u>	NAME	<u>NO.</u>	Prep Date	<u>Date</u>	<u>By</u>	<u>ScaleID</u>	<u>PipetteID</u>	Iwona Zarych	
1494	BORATE BUFFER	WP113886	07/10/2025	12/31/2025	Rubina Mughal	WETCHEM_S	None		
						CALE_8 (WC		07/10/2025	
FDOM	SC-7)								

<u>FROM</u>	0.90250L of W3112 + 9.50000gram of W3201 + 88.00000ml of WP113885 = Final Quantity: 1.000 L	

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

FROM 240.0000gram of W3113 + 760.00000ml of W3112 = Final Quantity: 1000.000 ml



Alliance

Fax: 908 789 8922

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		
290	Phenol reagent for Ammonia	WP113929	07/14/2025	12/31/2025	Rubina Mughal	_	None	,		
						CALE_8 (WC		07/15/2025		
	5C-7)									

FROM 3.20000gram of W3113 + 8.30000gram of W2663 + 88.80000ml of W3112 = Final Quantity: 100.000 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
635	EDTA BUFFER FOR AMMONIA	WP114132	07/31/2025	12/31/2025	Rubina Mughal	WETCHEM_S	None	-
						CALE_8 (WC		07/31/2025

FROM 5.50000gram of W3113 + 50.00000gram of W3132 + 950.00000ml of W3112 = Final Quantity: 1000.000 ml



Aliance

Fax: 908 789 8922

Wet Chemistry STANDARD PREPARATION LOG

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
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

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
229	1:1 HCL	WP115016	10/02/2025	02/17/2026	Jignesh Parikh	None	None	, , ,
								10/02/2025

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





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		
2470	1664A SPIKING SOLN	WP115017	10/02/2025	04/02/2026	Jignesh Parikh	WETCHEM_S	None	•		
						CALE_7 (WC		10/02/2025		
	SC-0)									

FROM 1000.00000ml of E3972 + 4.00000gram of W2817 + 4.00000gram of W2871 = Final Quantity: 1000.000 ml

Recipe				Expiration	Prepared			Supervised By
<u>ID</u>	<u>NAME</u>	NO.	Prep Date	<u>Date</u>	<u>By</u>	<u>ScaleID</u>	<u>PipetteID</u>	Iwona Zarych
3374	1664A QCS spiking solution-SS	WP115018	10/02/2025	04/02/2026	Jignesh Parikh	WETCHEM_S	None	
						CALE_7 (WC		10/02/2025

FROM 1000.00000ml of E3972 + 4.00000gram of W3009 + 4.00000gram of W3082 = Final Quantity: 1000.000 ml



Alliance

Fax: 908 789 8922

Wet Chemistry STANDARD PREPARATION LOG

Recipe ID	NAME	<u>NO.</u>	Prep Date	Expiration Date	Prepared By	<u>ScaleID</u>	<u>PipettelD</u>	Supervised By Iwona Zarych
153	Ammonia Stock Std. (1000 ppm)	WP115085	10/08/2025	04/08/2026	Rubina Mughal	WETCHEM_S	None	
						CALE_8 (WC		10/08/2025
EDOM	3 81000gram of W3106 ± 006 18100	ml of \M/311'	2 = Final Oua	untity: 1000 000) ml	SC-7)		

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

Recipe ID	<u>NAME</u>	NO.	Prep Date	Expiration Date	Prepared By	<u>ScaleID</u>	<u>PipetteID</u>	Supervised By Iwona Zarych
1895	,	WP115086	10/08/2025	04/08/2026	Rubina Mughal	WETCHEM_S	None	-
	1000PPM-SS					CALE_8 (WC		10/08/2025

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



Aliance

Fax: 908 789 8922

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
1211	11 N sulfuric acid	WP115089	10/08/2025	04/08/2026	Rubina Mughal	None	None	, , ,
								10/08/2025
EDOM	306 00000ml of M6186 ± 604 00000	ml of \M/3112	. = Final Oua	ntity: 1000 000	ml			

<u>FRUIVI</u>	300.000001111 01 W0 100 + 094.000001111 01 W3 112 - 1 IIIai Quantity. 1000.000 1111

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
1597	0.04 N H2SO4	WP115336	10/27/2025	04/27/2026	Rubina Mughal	None	WETCHEM_F	
							IPETTE_3	10/27/2025

FROM 1.00000ml of M6186 + 999.00000ml of W3112 = Final Quantity: 1000.000 ml



Aliance

Fax: 908 789 8922

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
126	5N sulfuric acid	WP115340	10/27/2025	04/27/2026	Rubina Mughal	None	None	· ·
								10/27/2025
EDOM	140 00000ml of M6186 ± 860 00000	ml of \W3113	. = Final Oua	ntity: 1 000 I				

FROM	140.000001111 01 1010 100 1	600.000001111 01 773 112	= Final Quantity. 1.000 L

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
1841	Sulfuric Acid, 1N	WP115342	10/27/2025	04/27/2026	Rubina Mughal	None	WETCHEM_F	
							IPETTE_3	10/27/2025

FROM 2.80000ml of M6186 + 97.20000ml of W3112 = Final Quantity: 100.000 ml



Alliance

Fax: 908 789 8922

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
115	Phosphate Stock Std. (50 ppm)	WP115558	11/07/2025	05/07/2026	Iwona Zarych	WETCHEM_S	None	_
						CALE_5 (WC		11/10/2025
FDOM	0.11000gram of W2206 + 500 00000	ml of \\\/2111	C = Final Oue	ntitu:	ml	SC-5)		

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

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	WP115559	11/07/2025	05/07/2026	Iwona Zarych	WETCHEM_S	None	-
						CALE_5 (WC		11/10/2025

FROM 0.11000gram of W3202 + 500.00000ml of W3112 = Final Quantity: 500.000 ml



Alliance TECHNICAL GROUP

Fax: 908 789 8922

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	
1322	Ammonia Intermediate Std, 50PPM	<u>WP115588</u>	11/10/2025	12/10/2025	Rubina Mughal	None	WETCHEM_F IPETTE_3	11/11/2025	
FDOM	(WC)								

Recipe ID	NAME_	NO.	Prep Date	Expiration Date	Prepared By	<u>ScaleID</u>	<u>PipetteID</u>	Supervised By Jignesh Parikh
1639	Ammonia Intermediate Std-Second source, 50PPM	<u>WP115589</u>	11/10/2025	12/10/2025	Rubina Mughal	None	WETCHEM_F IPETTE_3	11/11/2025

FROM 95.00000ml of W3112 + 5.00000ml of WP115086 = Final Quantity: 100.000 ml



Alliance

Fax: 908 789 8922

Wet Chemistry STANDARD PREPARATION LOG

Recipe ID	NAME	<u>NO.</u>	Prep Date	Expiration Date	Prepared By	<u>ScaleID</u>	<u>PipetteID</u>	Supervised By Jignesh Parikh
122	calibration std. 0 ppm	WP115782	11/21/2025	11/28/2025	Iwona Zarych	None	None	3 3 3
								11/21/2025

FROM 100.00000ml of W3112	! = Final Quantity: 100.000 n	nl
----------------------------------	-------------------------------	----

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
121	calibration std. phosphate 0.05	WP115783	11/21/2025	11/28/2025	Iwona Zarych	None	WETCHEM_F	
	ppm						IPETTE_3	11/21/2025

FROM 99.90000ml of W3112 + 0.10000ml of WP115558 = Final Quantity: 100.000 ml



Aliance

Fax: 908 789 8922

Wet Chemistry STANDARD PREPARATION LOG

Recipe ID	NAME.	NO.	Prep Date	Expiration Date	Prepared By	<u>ScaleID</u>	<u>PipetteID</u>	Supervised By Jignesh Parikh
120	calibration std. phosphate 0.1 ppm	WP115784	11/21/2025	11/28/2025	Iwona Zarych	None	WETCHEM_F IPETTE 3	11/21/2025
FROM	00.00000ml of W2442 + 0.20000ml o	f \\\\D11EEE) - Final Oua	ntitu: 100 000	ml		(WC)	11/21/2023

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
119	calibration std. phosphate 0.3 ppm	WP115785	11/21/2025	11/28/2025	Iwona Zarych	None	WETCHEM_F	
							IPETTE_3	11/21/2025

FROM 99.40000ml of W3112 + 0.60000ml of WP115558 = Final Quantity: 100.000 ml



Aliance

Fax: 908 789 8922

Wet Chemistry STANDARD PREPARATION LOG

Recipe ID	NAME_	NO.	Prep Date	Expiration Date	Prepared By	<u>ScaleID</u>	<u>PipetteID</u>	Supervised By Jignesh Parikh
118	calibration std. phosphate 0.5 ppm	<u>WP115786</u>	11/21/2025	11/28/2025	lwona Zarych	None	WETCHEM_F IPETTE 3	11/21/2025
FROM	00 00000ml of W2442 + 4 00000ml o	f \\\\D11EEE) = Final Oua	ntitu: 100 000	ml		(WC)	11/21/2023

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>	Jignesh Parikh
117	calibration std. phosphate 1 ppm	WP115787	11/21/2025	11/28/2025	Iwona Zarych	None	WETCHEM_F	
							IPETTE_3	11/21/2025

FROM 98.00000ml of W3112 + 2.00000ml of WP115558 = Final Quantity: 100.000 ml



Alliance

Fax: 908 789 8922

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	
3805	Phosphate ICV-LCS Std	WP115788	11/21/2025	11/28/2025	lwona Zarych	None	WETCHEM_F IPETTE_3	J	
FROM	(WC)								

FROIN	33.000001111 01 773112 1	1.0000001111 01 VVI	110000	- i illai Qualitity.	100.000 1	111

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
124	phosphate CCV std.	WP115789	11/21/2025	11/28/2025	Iwona Zarych	None	WETCHEM_F	•
							IPETTE_3	11/21/2025

FROM 99.00000ml of W3112 + 1.00000ml of WP115558 = Final Quantity: 100.000 ml



Alliance TECHNICAL GROUP

Fax: 908 789 8922

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
3907	Phosphate MDL-LOD-LOQ spike solution, 5ppm	<u>WP115790</u>	11/21/2025	11/28/2025	lwona Zarych	None	WETCHEM_F IPETTE_3	11/21/2025
EDOM	0.00000ml of W3112 ± 1.00000ml of	\\/D115550	= Final Ouan	tity: 10 000 ml			(WC)	

FROM	9.00000ml of W3112 +	1.00000ml of WP115558	= 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>WP115791</u>	11/21/2025	11/28/2025	lwona Zarych	None	WETCHEM_F IPETTE_3 (WC)	•

FROM 99.50000ml of W3112 + 0.50000ml of WP115790 = Final Quantity: 100.000 ml



Alliance

Fax: 908 789 8922

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
590	Ascorbic Acid	WP115792	11/21/2025	11/22/2025	lwona Zarych	WETCHEM_S	None	
						CALE_5 (WC		11/21/2025
FROM	0.52800gram of W3243 + 30.00000n	nl of W3112	= Final Quan	ntitv: 30.000 m	1	SC-5)		

<u>FROM</u>	0.52800gram of W3243 + 30.00000ml of W3112 = Final Quantity: 30.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
648			11/21/2025			WETCHEM_S		Jignesh Parikh
	·					CALE_5 (WC		11/21/2025

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



Fax: 908 789 8922

Wet Chemistry STANDARD PREPARATION LOG

Recipe ID	NAME.	NO.	Prep Date	Expiration Date	Prepared By	<u>ScaleID</u>	<u>PipetteID</u>	Supervised By Jignesh Parikh
588	Potassium Antimonyl Tartrate	<u>WP115794</u>	11/21/2025	05/21/2026	lwona Zarych	WETCHEM_S CALE 5 (WC		11/21/2025
FROM	1.37150gram of W2306 + 500.00000	ml of W311	I 2 = Final Qua	ntity: 500.000	ml	SC-5)		11/21/2020

ROM 1.37150gram of W2306 + 500.00000ml of W3112 = Final Quantity: 500.000) 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
658	Combined reagent	WP115795	11/21/2025	11/22/2025	Iwona Zarych	None	Glass	
							Pipette-A	11/21/2025

15.00000ml of WP115793 + 30.0000ml of WP115792 + 5.0000ml of WP115794 + 50.0000ml of WP115340 = Final Quantity: **FROM** 100.000 ml



Aliance

Fax: 908 789 8922

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
4212	Phosphate RL CHECK	WP115796	11/21/2025	11/28/2025	Iwona Zarych	None	None	3
								11/21/2025

FROM	99.80000ml of W3112 + 0.20000ml of WP115558 = Final Quantity: 100.000 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
127	BOD Dilution fluid	WP115797	11/21/2025	11/22/2025	Rubina Mughal	None	WETCHEM_F	'
							IPETTE_3	11/21/2025

FROM 18.00000L of W3112 + 3.00000PILLOW of W3253 = Final Quantity: 18.000 L



Fax: 908 789 8922

Wet Chemistry STANDARD PREPARATION LOG

Recipe ID	NAME_	NO.	Prep Date	Expiration Date	Prepared By	<u>ScaleID</u>	<u>PipetteID</u>	Supervised By Iwona Zarych	
129	Glutamic acid-glucose mix for BOD	<u>WP115798</u>	11/21/2025	11/22/2025	Rubina Mughal	CALE_7 (WC	None	11/21/2025	
FROM	FROM 0.15000gram of W2653 + 0.15000gram of W2654 + 1000.0000ml of W3112 = Final Quantity: 1000.000 ml								

00 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>	Iwona Zarych
128	polyseed seed control	WP115800	11/21/2025	11/22/2025	Rubina Mughal	None	None	·
								11/21/2025

 $1.00000PILLOW ext{ of } W3252 + 300.00000ml ext{ of } WP115797 ext{ = Final Quantity: } 300.000 ext{ ml}$ **FROM**



Alliance

Fax: 908 789 8922

Wet Chemistry STANDARD PREPARATION LOG

Recipe				Expiration	Prepared			Supervised By		
<u>ID</u>	NAME	NO.	Prep Date	<u>Date</u>	<u>By</u>	<u>ScaleID</u>	<u>PipetteID</u>	Iwona Zarych		
275	Ammonia Calibration Std. (2 ppm)	WP115818	11/25/2025	11/26/2025	Rubina Mughal	None	WETCHEM_F	•		
							IPETTE_3	11/25/2025		
FROM	(WC)									

FRUIVI	40.000001111 01 VV3 1 12 1	2.000001111 01 771	113300 -	i iliai Qualitity. 50.000	

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>	lwona Zarych
285	Ammonia CCV Std. (1 ppm)	WP115819	11/25/2025	11/26/2025	Rubina Mughal	None	WETCHEM_F	'
							IPETTE_3	11/25/2025

FROM 49.00000ml of W3112 + 1.00000ml of WP115588 = Final Quantity: 50.000 ml



Alliance TECHNICAL GROUP

Fax: 908 789 8922

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
286	Ammonia ICV Std. (1 ppm)	WP115820	11/25/2025	11/26/2025	Rubina Mughal	None	WETCHEM_F	
							IPETTE_3	11/25/2025
EDOM	49 00000ml of W3112 + 1 00000ml o	f \MD115580	= Final Oua	ntity: 50 000 r	nl		(****)	

	•

Recipe ID	<u>NAME</u>	<u>NO.</u>	Prep Date	Expiration Date	Prepared By	<u>ScaleID</u>	<u>PipettelD</u>	Supervised By Iwona Zarych
740	sodium nitroferricyanide for ammonia	<u>WP115821</u>	11/25/2025	12/25/2025	Rubina Mughal	WETCHEM_S CALE_5 (WC	None	11/25/2025

FROM 0.05000gram of W2666 + 99.95000ml of W3112 = 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	07/28/2026	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)	24H1462005	05/24/2027	09/16/2025 / Evelyn	09/04/2025 / Riteshkumar	E3972
Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	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 / Received By	Chemtech Lot #
Seidler Chemical	BA-9530-33 / Hydrochloric Acid, Instra-Analyzed (cs/6x2.5L)	22G2862015	02/17/2026	02/18/2025 / Sagar	01/15/2025 / Sagar	M6151
Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9673-33 / Sulfuric Acid,	23D2462010	07/12/2026	08/13/2025 /	08/06/2025 /	M6186
	Instra-Analyzed (cs/6c2.5L)			Sagar	Sagar	
Supplier	Instra-Analyzed (cs/6c2.5L) ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Sagar Received Date / Received By	Chemtech Lot #



Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	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, 99.0%	SHBP8192	02/27/2028	02/27/2023 / Iwona	02/27/2023 / Iwona	W3009
		I			1	
Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Supplier PCI Scientific Supply, Inc.	ItemCode / ItemName BDH0214-500G / Ammonium Persulfate Crystal, 500g	Lot # MKCR9319	-	-		
PCI Scientific	BDH0214-500G / Ammonium Persulfate		Date	Opened By 03/05/2024 /	Received By 06/06/2023 /	Lot #



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.	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 / Iwona	07/03/2024 / Iwona	W3112
Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date /	Chemtech Lot #
PCI Scientific Supply, Inc.	PC19510-7 / Sodium Hydroxide Pellets 12 Kg	23B1556310	12/31/2025	07/08/2024 / lwona	07/08/2024 / Iwona	W3113
Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	PC05050-1 / EDTA, disodium salt, dihydrate 1 lb	2ND0156	07/10/2026	07/26/2024 / lwona	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 / Received By	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 / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	J0660-1 / AMMONIUM CHLORIDE, ACS, 500G	MKCV1009	09/30/2026	03/19/2025 / lwona	03/19/2025 / Iwona	W3196
					I	l .
Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Supplier PCI Scientific Supply, Inc.	ItemCode / ItemName J3568-1 / Sodium Borate, 500 gms	Lot # BCCL9613		_		
PCI Scientific	J3568-1 / Sodium Borate,		Date	Opened By 04/16/2025 /	Received By 04/16/2025 /	Lot #



Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	J3246-1 / POTAS PHOSPHATE, MONO, CRYS, ACS, 500G	MKCX1379	01/31/2029	04/29/2025 / Iwona	04/29/2025 / Iwona	W3206
Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	J9416-1 / Sodium Hypochlorite 500 ml	2506M51	12/31/2025	07/02/2025 / Iwona	07/02/2025 / Iwona	W3222
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)	25C0362006	04/30/2026	09/15/2025 / JIGNESH	09/12/2025 / JIGNESH	W3240
Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific	140444 / TEST PAPERS,PH 0-14,.5	10BDH15251	04/30/2029	10/02/2025 / Iwona	10/02/2025 / Iwona	W3241
Supply, Inc.	SENSI,100PK					
Supplier		Lot #	Expiration Date	Date Opened / Opened By	Received Date /	Chemtech Lot #
	SENSI,100PK	Lot # MKCX1143	-	-		
Supplier PCI Scientific	ItemCode / ItemName J0938-7 / Ascorbic Acid,		Date	Opened By 10/03/2025 /	10/03/2025 /	Lot #



Fax: 908 789 8922

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	136742-80 / POLYSEED	072505	05/31/2027	10/31/2025 / Iwona	10/31/2025 / Iwona	W3252

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	A5219	08/31/2030	11/19/2025 / Iwona	11/19/2025 / Iwona	W3253



CERTIFICATE OF ANALYSIS

Printed:

12/8/2017

Customer: PCI SCIENTIFIC

Page 1 of 1

Customer No: Order Number: 30017 3008126

Delivery #:

Customer PO:

6035343

Catalog:

A1561

58495347 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	Specification		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%

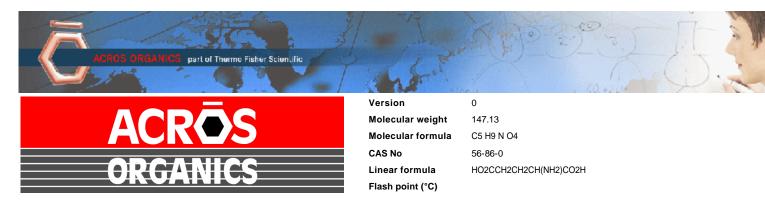
Lot No.: W12F013

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

Order our products online alfa.com

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

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



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	
----------------	---	--

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
Contract Conservation de	ACC	Propionaldehyde 0.002% max	< 0.002%
Carbonyl Compounds	ACS	Acetone 0.002% max	None Detected
		Diethyl Ether NMT 0.1%	< 0.1%
	USP	Acetone NMT 0.1%	None Detected
Limit of Volatile Impurities		Diisopropyl Ether NMT 0.1%	< 0.1%
		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%	3.0370

[†]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 Sink

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:

7727-54-0

MDL Number:

MFCD00003390

Formula Weight:

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 Chu	ınks Crystals
ICP Major Analysis	Confirmed	Confirmed
Confirms Sulfur Component		
Titration by KMNO4	≥ 98.0 %	100.0 %
Residue on ignition (Ash)	≤ 0.05 %	< 0.05 %
Insoluble Matter	≤ 0.005 %	0.002 %
c = 10 %; In Water	_	
Chloride and Chlorate (as CI)	≤ 0.001 %	< 0.001 %
Iron (Fe)	< 0.001 %	< 0.001 %
Heavy Metal as Lead	<u><</u> 0.005 %	< 0.001 %
Manganese (Mn)	< 0.5 ppm	< 0.1 ppm
Titratable Acid (meq/g)	<u> </u>	< 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

MEMPERS A

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.: 24H1462005

Manufactured Date: 2024-05-24

Expiration Date: 2027-05-24

Revision No.: 0

Certificate of Analysis

Test	Specification	Result	
Assay ((CH ₃) ₂ CO) (by GC, corrected forwater)	>= 99.4 %	99.8 %	
Color (APHA)	<= 10	5	
Residue after Evaporation	<= 1.0 ppm	0.2 ppm	
Substances Reducing Permanganate	Passes Test	Passes Test	
Titrable Acid (µeq/g)	<= 0.3	0.2	,
Titrable Base (µeq/g)	<= 0.6	<0.1	
Water (H2O)	<= 0.5 %	0.2 %	
FID-Sensitive Impurities (as 2-Octanol)Single Impurity Peak (ng/mL)	<= 5	<1	
ECD Sensitive Impurities (as HeptachlorEpoxide) Single Peak (pg/mL)	<= 10	1	

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

Country of Origin: United States

Packaging Site: Phillipsburg Mfg Ctr & DC

E3972

Arminen Bankananan Kansantala 117



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



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





Material No.: 9673-33

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

Retest Date: 2028-03-20

Revision No.: 0

[m6186] Reciew Dute = 68/06/25

Certificate of Analysis

	Specification	Result
ACS - Assay (H2SO4)	95.0 - 98.0 %	96.1 %
Appearance	Passes Test	Passes Test
ACS – Color (APHA)	≤ 10	5
ACS – Residue after Ignition	≤ 3 ppm	< 1 ppm
ACS - Substances Reducing Permanganate (as SO2)	≤ 2 ppm	< 2 ppm
Ammonium (NH ₄)	≤ 1 ppm	1 ppm
Chloride (CI)	≤ 0.1 ppm	< 0.1 ppm
Nitrate (NO ₃)	≤ 0.2 ppm	< 0.1 ppm
Phosphate (PO4)	≤ 0.5 ppm	< 0.1 ppm
Trace Impurities – Aluminum (Al)	≤ 30.0 ppb	< 5.0 ppb
Arsenic and Antimony (as As)	≤ 4.0 ppb	< 2.0 ppb
Frace Impurities - Boron (B)	≤ 10.0 ppb	8.5 ppb
Frace Impurities – Cadmium (Cd)	≤ 2.0 ppb	< 0.3 ppb
Frace Impurities – Chromium (Cr)	≤ 6.0 ppb	< 0.4 ppb
race Impurities – Cobalt (Co)	≤ 0.5 ppb	< 0.3 ppb
race Impurities – Copper (Cu)	≤ 1.0 ppb	< 0.1 ppb
race Impurities - Gold (Au)	≤ 10.0 ppb	0.5 ppb
leavy Metals (as Pb)	≤ 500.0 ppb	< 100.0 ppb
race Impurities – Iron (Fe)	≤ 50.0 ppb	1.3 ppb
race Impurities – Lead (Pb)	≤ 0.5 ppb	< 0.5 ppb
race Impurities – Magnesium (Mg)	≤ 7.0 ppb	0.8 ppb
race Impurities – Manganese (Mn)	≤ 1.0 ppb	< 0.4 ppb
race Impurities – Mercury (Hg)	≤ 0.5 ppb	< 0.1 ppb
race Impurities – Nickel (Ni)	≤ 2.0 ppb	0.3 ppb
race Impurities – Potassium (K)	≤ 500.0 ppb	< 2.0 ppb
race Impurities – Selenium (Se)	≤ 50.0 ppb	< 0.1 ppb
ace Impurities – Silicon (Si)	≤ 100.0 ppb	31.5 ppb
ace Impurities – Silver (Ag)	≤ 1.0 ppb	< 0.3 ppb

>>> Continued on page 2 >>>

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





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

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

For Laboratory, Research, or Manufacturing Use

Country of Origin: USA

Packaging Site: Phillipsburg Mfg Ctr & DC



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

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

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

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		DECULT.
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)	

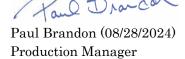
Specification	Reference
Starch Solution	APHA (4500-S2- F)
Starch Indicator Solution	APHA (4500-Cl B)
Starch Indicator	APHA (4500-SO32- B)
Starch indicator solution	APHA (2350 B)
Starch indicator solution	APHA (2350 E)
Starch Solution	APHA (510 B)
Starch Solution	APHA (5530 C)
Starch Indicator	APHA (4500-C1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



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

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:

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

Product Name:

W3202 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

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

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

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

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

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

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





Certific Cavantor

Material No.: 9262-03

Batch No.: 25C0362006

Manufactured Date: 2025-01-29

Expiration Date:2026-04-30

Revision No.: 0

Certificate of Analysis

Test	Specification	Result
FID-Sensitive Impurities (as 2-Octanol)Single Impurity Peak (ng/mL)	<= 5	1
ECD Sensitive Impurities (as HeptachlorEpoxide) Single Peak (pg/mL)	<= 10	6
ECD-Sensitive Impurities (as EthyleneDibromide) – Single Impurity Peak (ng/mL)	<= 5	4
Assay (Total Saturated Collsomers) (byGC, corrected for water)	>= 99.5 %	100.0 %
Assay (as n-Hexane) (by GC, correctedfor water)	>= 95 %	100 %
Color (APHA)	<= 10	10
Residue after Evaporation	<= 1.0 ppm	0.2 ppm
Substances Darkened by H2SO4	Passes Test	Passes Test
Water (by KF, coulometric)	<= 0.05 %	<0.01 %

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

Country of Origin: United States

Packaging Site: Phillipsburg Mfg Ctr & DC

Director Quality Operations, Bioscience Production

W3243 Received on 10/3/25 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

L-Ascorbic acid - ACS reagent, ≥99%

Product Name:

Product Number: 255564

Batch Number: MKCX1143

Brand: SIAI

Brand: SIAL CAS Number: 50-81-7

MDL Number: MFCD00064328

Formula: C6H8O6

Formula Weight: 176.12 g/mol

Quality Release Date: 17 JAN 2025

Recommended Retest Date: JAN 2028

Test	Specification	Result
Appearance (Color)	White	White
Appearance (Form)	Powder or Crystals or Granules or Chunk	s Powder
Infrared Spectrum	Conforms to Structure	Conforms
Optical Rotation	20.5 - 21.5 deg	21.0 deg
(+); c = 10%; Water		
Titration by Iodine	> 99.0 %	100.0 %
Residue on Ignition	≤ 0.10 %	0.02 %
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: 2 Page 1 of 1

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

customerservice@riccachemical.com

Certificate of Analysis

Sodium Thiosulfate, 0.0250 Normal (N/40)

Lot Number: 250904J Product Number: 7900

Manufacture Date: SEP 03, 2025

Expiration Date: FEB 2027

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

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

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

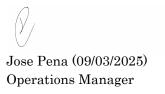
Specification	Reference	
Standard Sodium Thiosulfate Solution, 0.0250 N	APHA (4500-S2- F)	
Standard Sodium Thiosulfate Titrant	APHA (4500-O D)	
Standard Sodium Thiosulfate Titrant	APHA (4500-O E)	
Standard Sodium Thiosulfate Titrant	APHA (4500-O F)	
Standard Sodium Thiosulfate Titrant, 0.025 N	APHA (4500-Cl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

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

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

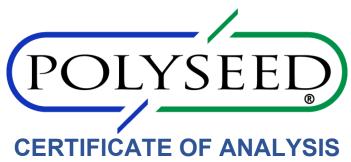
Recommended Storage: 15°C - 30°C (59°F - 86°F)

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



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

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



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 072505 + Mfg. Date: 05/2025 + Exp. Date: 05/2027

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 x10⁹ 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: 203

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 specifications.

Signature: ____ **Date**: 05/07/2025

Quality Control Department

POLYSEED.Ref.1.19 Revised Jan 25





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 A5219

PRODUCT: BOD Nutrient Buffer Pillows

PRODUCT NUMBER: 1486227 LOT NUMBER: A5219

MANUFACTURE DATE: 08/26/2025 **DATE OF ANALYSIS:** 09/15/2025

TEST	SPECIFICATIONS	RESULTS
Ammonia Concentration of a diluted pillow	0.57 to 0.79 ppm	0.581
Calcium Concentration of a diluted pillow	0.93 to 1.29 ppm	1.050
Iron Concentration of a diluted pillow	0.27 to 0.36 ppm	0.323
Magnesium Concentration of a diluted pillow	0.35 to 0.48 ppm	0.400
Phosphorus Concentration of a diluted pillow	7.6 to 10.3 ppm	8.85
pH in a 6 L of DI water	7.1 to 7.6 ph	7.20
Five Day Change in Dissolved Oxygen Concentration	-0.2 to 0.2 ppm	0.15
Sterility	To Pass	Passed

The expiration date is Aug 2030

Certified by: Scottals



SHIPPING DOCUMENTS



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

ALLIANCE PF	ROJECT NO.	
QUOTE NO.	(1370)	
COC Number	2046956	

		INFORMATION		CLIENT PR				PROJECT INFORMATION					CLIENT BILLING INFORMATION							
COMPANY:	HOLLAND	TTO BE SENTTO: NANUTACK	ling Co.	PROJECT.NAME: HAC					c Pretreatment				BILL TO:				PO#:			
ADDRESS: / MAIN ST.				PROJEC	PROJECT NO.: LOCATION:							ADDRESS:								
CITY SU	CASUNN	A STATE: /	1. JZIP: 07876	PROJEC	OT MA	NAG	ER: 7	(10)	4011	AND			CITY				STATE: ;ZIP:			:ZIP:
ATTENTION:				e-mail:									ATTENTION:				PHONE:			
PHONE:		FAX:		PHONE				FA	X::				ANALYSIS							
	DATA TURNAR	OUND INFORMA	TION			ATA	DELIVE	RABLE IN	FORM	ATION	270	200				,	,	,	, ,	
FAX (RUSH) DAYS* HARDCOPY (DATA PACKAGE): DAYS* EDD: DAYS* *TO BE APPROVED BY CHEMTECH STANDARD HARDCOPY TURNAROUND TIME IS 10 BUSINESS				□ Leve □ Leve +Ra	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) Cher Street															
ALLIANCE		PROJECT		SAMPLE	SAM			IPLE ECTION	OF BOTTLES	_	_	C		C					11	MMENTS by Preservatives D-NaOH
SAMPLE ID	SA	MPLE IDENTIFIC	ATION	MATRIX	COMP	GRAB	DATE	TIME	# OF BC	<u>٤</u>	2	3	4	5	6	7	8	9	B-HN03 C-H2SO4	E-ICE F-OTHER
1.	Eff	u est		ω		7	ulahs	- 1:30		7	V	V	1	V	J					
2.	Aera			64		1	1. 11	130			/									
3.	INF	West		W		V	7 .1 .	-1 30		/					/					
4.							11													
5.																				
6.																				
7.																				
8.																				
9.																				
10.																				
RELINQUISHED BY RELINQUISHED BY RELINQUISHED BY	YSAMPLER SAMPLER:		RECEIVED BY: 2. RECEIVED BY:	MENTE	BEL	OW I	-	ons of bottles	or coolers		: 0 cc	OMPLIANT	D NON		NT Q C		_	2. 2.	Shipmen	± Complete
3.			3.				Page	of	- 1									- 1	D VES	



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