

DATA REPORTING QUALIFIERS- INORGANIC

For reporting results, the following “ Results Qualifiers” are used:

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

LAB CHRONICLE

OrderID:	Q3554	OrderDate:	11/5/2025 2:36:00 PM
Client:	Holland Manufacturing Co.	Project:	Pre Treatment Plant 2025
Contact:	Todd Holland	Location:	D41

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q3554-01	EFFLUENT	WATER			11/05/25 12:00			11/05/25
			Ammonia	SM4500-NH3		11/10/25	11/11/25 11:46	
			BOD5	SM5210 B			11/05/25 16:40	
			Oil and Grease	1664A			11/07/25 10:30	
			Phosphorus-Ortho	SM4500-P E			11/07/25 11:37	
			Phosphorus-Total	365.3		11/07/25	11/07/25 12:17	
			TSS	SM2540 D			11/07/25 10:00	
Q3554-01DL	EFFLUENTDL	WATER			11/05/25 12:00			11/05/25
			Ammonia	SM4500-NH3		11/10/25	11/11/25 13:06	
Q3554-04	AERATION	WATER			11/05/25 12:00			11/05/25
			TSS	SM2540 D			11/07/25 10:00	
Q3554-05	INFLUENT	WATER			11/05/25 12:00			11/05/25
			Ammonia	SM4500-NH3		11/06/25	11/06/25 13:08	
			BOD5	SM5210 B			11/05/25 16:40	

LAB CHRONICLE

Q3554-05DL

INFLUENTDL

WATER

**11/05/25
12:00**

11/05/25

Ammonia

SM4500-NH3

11/06/25

11/06/25
13:53



SAMPLE DATA

Report of Analysis

Client: Holland Manufacturing Co.
Project: Pre Treatment Plant 2025
Client Sample ID: EFFLUENT
Lab Sample ID: Q3554-01

Date Collected: 11/05/25 12:00
Date Received: 11/05/25
SDG No.: Q3554
Matrix: WATER
% Solid: 0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Ammonia as N	414	OR	1	1.50	5.00	mg/L	11/10/25 11:40	11/11/25 11:46	SM 4500-NH3 B plus G-21
BOD5	6740		1	0.20	2.00	mg/L		11/05/25 16:40	SM 5210 B-16
Oil and Grease	18.4		1	0.29	5.00	mg/L		11/07/25 10:30	1664A
Orthophosphate as P	0.053		1	0.0040	0.050	mg/L		11/07/25 11:37	SM 4500-P E-21
Phosphorus, Total	0.079		1	0.0050	0.050	mg/L	11/07/25 09:40	11/07/25 12:17	365.3
TSS	1150		1	1.00	4.00	mg/L		11/07/25 10:00	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

N =Spiked sample recovery not within control limits

Report of Analysis

Client: Holland Manufacturing Co.
Project: Pre Treatment Plant 2025
Client Sample ID: EFFLUENTDL
Lab Sample ID: Q3554-01DL

Date Collected: 11/05/25 12:00
Date Received: 11/05/25
SDG No.: Q3554
Matrix: WATER
% Solid: 0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Ammonia as N	383	D	10	15.0	50.0	mg/L	11/10/25 11:40	11/11/25 13:06	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
N = Spiked sample recovery not within control limits

Report of Analysis

Client: Holland Manufacturing Co.
Project: Pre Treatment Plant 2025
Client Sample ID: AERATION
Lab Sample ID: Q3554-04

Date Collected: 11/05/25 12:00
Date Received: 11/05/25
SDG No.: Q3554
Matrix: WATER
% Solid: 0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
TSS	1430		1	1.00	4.00	mg/L		11/07/25 10:00	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

N =Spiked sample recovery not within control limits

Report of Analysis

Client: Holland Manufacturing Co.
Project: Pre Treatment Plant 2025
Client Sample ID: INFLUENT
Lab Sample ID: Q3554-05

Date Collected: 11/05/25 12:00
Date Received: 11/05/25
SDG No.: Q3554
Matrix: WATER
% Solid: 0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Ammonia as N	285	OR	1	1.50	5.00	mg/L	11/06/25 08:40	11/06/25 13:08	SM 4500-NH3 B plus G-21
BOD5	8400		1	0.20	2.00	mg/L		11/05/25 16:40	SM 5210 B-16

Comments: _____

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

D = Dilution

Q = indicates LCS control criteria did not meet requirements

H = Sample Analysis Out Of Hold Time

J = Estimated Value

B = Analyte Found in Associated Method Blank

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

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

OR = Over Range

N = Spiked sample recovery not within control limits

Report of Analysis

Client: Holland Manufacturing Co.
Project: Pre Treatment Plant 2025
Client Sample ID: INFLUENTDL
Lab Sample ID: Q3554-05DL

Date Collected: 11/05/25 12:00
Date Received: 11/05/25
SDG No.: Q3554
Matrix: WATER
% Solid: 0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Ammonia as N	289	D	5	7.50	25.0	mg/L	11/06/25 08:40	11/06/25 13:53	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
N = Spiked sample recovery not within control limits



QC RESULT SUMMARY

Initial and Continuing Calibration Verification

Client: Holland Manufacturing Co.

SDG No.: Q3554

Project: Pre Treatment Plant 2025

RunNo.: LB137801

Analyte	Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID: ICV1 Ammonia as N	mg/L	0.96	1	96	90-110	11/06/2025
Sample ID: CCV1 Ammonia as N	mg/L	0.97	1	97	90-110	11/06/2025
Sample ID: CCV2 Ammonia as N	mg/L	1.1	1	110	90-110	11/06/2025
Sample ID: CCV3 Ammonia as N	mg/L	1.1	1	110	90-110	11/06/2025

Initial and Continuing Calibration Verification

Client: Holland Manufacturing Co.

SDG No.: Q3554

Project: Pre Treatment Plant 2025

RunNo.: LB137825

Analyte	Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID: ICV Orthophosphate as P	mg/L	0.493	0.50	99	90-110	11/07/2025
Sample ID: CCV1 Orthophosphate as P	mg/L	0.504	0.5	101	90-110	11/07/2025
Sample ID: CCV2 Orthophosphate as P	mg/L	0.501	0.5	100	90-110	11/07/2025

Initial and Continuing Calibration Verification

Client: Holland Manufacturing Co.

SDG No.: Q3554

Project: Pre Treatment Plant 2025

RunNo.: LB137826

Analyte	Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID: ICV Phosphorus, Total	mg/L	0.509	0.50	102	90-110	11/07/2025
Sample ID: CCV1 Phosphorus, Total	mg/L	0.495	0.50	99	90-110	11/07/2025
Sample ID: CCV2 Phosphorus, Total	mg/L	0.506	0.50	101	90-110	11/07/2025

Initial and Continuing Calibration Verification

Client: Holland Manufacturing Co.

SDG No.: Q3554

Project: Pre Treatment Plant 2025

RunNo.: LB137852

Analyte	Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID: ICV1 Ammonia as N	mg/L	0.97	1	97	90-110	11/11/2025
Sample ID: CCV1 Ammonia as N	mg/L	0.95	1	95	90-110	11/11/2025
Sample ID: CCV2 Ammonia as N	mg/L	0.96	1	96	90-110	11/11/2025
Sample ID: CCV3 Ammonia as N	mg/L	0.97	1	97	90-110	11/11/2025
Sample ID: CCV4 Ammonia as N	mg/L	0.96	1	96	90-110	11/11/2025
Sample ID: CCV5 Ammonia as N	mg/L	0.99	1	99	90-110	11/11/2025
Sample ID: CCV6 Ammonia as N	mg/L	0.94	1	94	90-110	11/11/2025

Initial and Continuing Calibration Blank Summary

Client: Holland Manufacturing Co.

SDG No.: Q3554

Project: Pre Treatment Plant 2025

RunNo.: LB137801

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	11/06/2025
Sample ID: CCB1 Ammonia as N	mg/L	< 0.0500	0.0500	U	0.030	0.1	11/06/2025
Sample ID: CCB2 Ammonia as N	mg/L	< 0.0500	0.0500	U	0.030	0.1	11/06/2025
Sample ID: CCB3 Ammonia as N	mg/L	< 0.0500	0.0500	U	0.030	0.1	11/06/2025

Initial and Continuing Calibration Blank Summary

Client: Holland Manufacturing Co.

SDG No.: Q3554

Project: Pre Treatment Plant 2025

RunNo.: LB137825

Analyte	Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID: ICB Orthophosphate as P	mg/L	0.006	0.0250	J	0.0038	0.05	11/07/2025
Sample ID: CCB1 Orthophosphate as P	mg/L	0.007	0.0250	J	0.0038	0.05	11/07/2025
Sample ID: CCB2 Orthophosphate as P	mg/L	0.006	0.0250	J	0.0038	0.05	11/07/2025

Initial and Continuing Calibration Blank Summary

Client: Holland Manufacturing Co.

SDG No.: Q3554

Project: Pre Treatment Plant 2025

RunNo.: LB137826

Analyte	Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID: ICB Phosphorus, Total	mg/L	0.007	0.0250	J	0.0045	0.05	11/07/2025
Sample ID: CCB1 Phosphorus, Total	mg/L	0.010	0.0250	J	0.0045	0.05	11/07/2025
Sample ID: CCB2 Phosphorus, Total	mg/L	0.011	0.0250	J	0.0045	0.05	11/07/2025

Initial and Continuing Calibration Blank Summary

Client: Holland Manufacturing Co.

SDG No.: Q3554

Project: Pre Treatment Plant 2025

RunNo.: LB137852

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	11/11/2025
Sample ID: CCB1 Ammonia as N	mg/L	< 0.0500	0.0500	U	0.030	0.1	11/11/2025
Sample ID: CCB2 Ammonia as N	mg/L	< 0.0500	0.0500	U	0.030	0.1	11/11/2025
Sample ID: CCB3 Ammonia as N	mg/L	< 0.0500	0.0500	U	0.030	0.1	11/11/2025
Sample ID: CCB4 Ammonia as N	mg/L	< 0.0500	0.0500	U	0.030	0.1	11/11/2025
Sample ID: CCB5 Ammonia as N	mg/L	< 0.0500	0.0500	U	0.030	0.1	11/11/2025
Sample ID: CCB6 Ammonia as N	mg/L	< 0.0500	0.0500	U	0.030	0.1	11/11/2025

Preparation Blank Summary

Client: Holland Manufacturing Co.

SDG No.: Q3554

Project: Pre Treatment Plant 2025

Analyte	Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID: LB137795BL BOD5	mg/L	< 0.2000	0.2000	U	0.20	2.0	11/05/2025
Sample ID: LB137812BL TSS	mg/L	< 2.0000	2.0000	U	1	4	11/07/2025
Sample ID: LB137814BL Oil and Grease	mg/L	< 2.5000	2.5000	U	0.29	5.0	11/07/2025
Sample ID: LB137825BL Orthophosphate as P	mg/L	0.009	0.0250	J	0.004	0.05	11/07/2025
Sample ID: PB170403BL Ammonia as N	mg/L	< 0.0500	0.0500	U	0.03	0.1	11/06/2025
Sample ID: PB170438BL Phosphorus, Total	mg/L	0.011	0.0250	J	0.005	0.05	11/07/2025
Sample ID: PB170466BL Ammonia as N	mg/L	< 0.0500	0.0500	U	0.03	0.1	11/11/2025

Matrix Spike Summary

Client:	Holland Manufacturing Co.	SDG No.:	Q3554
Project:	Pre Treatment Plant 2025	Sample ID:	Q3537-03
Client ID:	MW-17-PURGE-WATERMS	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	1.00		0.039	J	1	1	96		11/06/2025

Matrix Spike Summary

Client:	Holland Manufacturing Co.	SDG No.:	Q3554
Project:	Pre Treatment Plant 2025	Sample ID:	Q3537-03
Client ID:	MW-17-PURGE-WATERMSD	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	1.00		0.039	J	1	1	96		11/06/2025

Matrix Spike Summary

Client:	Holland Manufacturing Co.	SDG No.:	Q3554
Project:	Pre Treatment Plant 2025	Sample ID:	Q3551-01
Client ID:	MANHOLEMS	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
Oil and Grease	mg/L	78-114	25.9		5.80		20.0	1	101		11/07/2025

Matrix Spike Summary

Client:	Holland Manufacturing Co.	SDG No.:	Q3554
Project:	Pre Treatment Plant 2025	Sample ID:	Q3551-01
Client ID:	MANHOLEMSD	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
Oil and Grease	mg/L	78-114	26.0		5.80		20.0	1	101		11/07/2025

Matrix Spike Summary

Client:	Holland Manufacturing Co.	SDG No.:	Q3554
Project:	Pre Treatment Plant 2025	Sample ID:	Q3554-01
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
Orthophosphate as P	mg/L	90-110	0.53		0.053		0.5	1	94		11/07/2025
Phosphorus, Total	mg/L	90-110	0.50		0.079		0.5	1	84	*	11/07/2025

Matrix Spike Summary

Client:	Holland Manufacturing Co.	SDG No.:	Q3554
Project:	Pre Treatment Plant 2025	Sample ID:	Q3554-01
Client ID:	EFFLUENTMSD	Percent Solids for Spike Sample:	0

Analyte	Units	Acceptance Limit %R	Spiked Result	Conc. Qualifier	Sample Result	Conc. Qualifier	Spike Added	Dilution Factor	% Rec	Qual	Analysis Date
Orthophosphate as P	mg/L	90-110	0.53		0.053		0.5	1	96		11/07/2025
Phosphorus, Total	mg/L	90-110	0.49		0.079		0.5	1	81	*	11/07/2025

Matrix Spike Summary

Client:	Holland Manufacturing Co.	SDG No.:	Q3554
Project:	Pre Treatment Plant 2025	Sample ID:	Q3554-01
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
Oil and Grease	mg/L	78-114	38.6		18.4		20.0	1	101		11/07/2025

Matrix Spike Summary

Client:	Holland Manufacturing Co.	SDG No.:	Q3554
Project:	Pre Treatment Plant 2025	Sample ID:	Q3554-01
Client ID:	EFFLUENTMSD	Percent Solids for Spike Sample:	0

Analyte	Units	Acceptance Limit %R	Spiked Result	Conc. Qualifier	Sample Result	Conc. Qualifier	Spike Added	Dilution Factor	% Rec	Qual	Analysis Date
Oil and Grease	mg/L	78-114	38.8		18.4		20.0	1	102		11/07/2025

Matrix Spike Summary

Client:	Holland Manufacturing Co.	SDG No.:	Q3554
Project:	Pre Treatment Plant 2025	Sample ID:	Q3560-01
Client ID:	SY-10DMS	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	9.10	OR	8.10	OR	1	1	100		11/11/2025

Matrix Spike Summary

Client:	Holland Manufacturing Co.	SDG No.:	Q3554
Project:	Pre Treatment Plant 2025	Sample ID:	Q3560-01
Client ID:	SY-10DMSD	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	9.10	OR	8.10	OR	1	1	100		11/11/2025

Duplicate Sample Summary

Client: Holland Manufacturing Co.	SDG No.: Q3554
Project: Pre Treatment Plant 2025	Sample ID: Q3537-03
Client ID: MW-17-PURGE-WATERDUP	Percent Solids for Spike Sample: 0

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/ AD	Qual	Analysis Date
Ammonia as N	mg/L	+/-20	0.039	J	0.037	J	1	5		11/06/2025

Duplicate Sample Summary

Client: Holland Manufacturing Co.	SDG No.: Q3554
Project: Pre Treatment Plant 2025	Sample ID: Q3537-03
Client ID: MW-17-PURGE-WATERMSD	Percent Solids for Spike Sample: 0

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/ AD	Qual	Analysis Date
Ammonia as N	mg/L	+/-20	1.00		1.00		1	0		11/06/2025

Duplicate Sample Summary

Client: Holland Manufacturing Co.	SDG No.: Q3554
Project: Pre Treatment Plant 2025	Sample ID: Q3547-02
Client ID: CompDUP	Percent Solids for Spike Sample: 0

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/ AD	Qual	Analysis Date
BOD5	mg/L	+/-20	740		740		1	0.09		11/05/2025

Duplicate Sample Summary

Client: Holland Manufacturing Co.	SDG No.: Q3554
Project: Pre Treatment Plant 2025	Sample ID: Q3551-04
Client ID: MANHOLEDUP	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	48.0		48.2		1	0.42		11/07/2025

Duplicate Sample Summary

Client: Holland Manufacturing Co.	SDG No.: Q3554
Project: Pre Treatment Plant 2025	Sample ID: Q3554-01
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	0.053		0.052		1	1.9		11/07/2025
Phosphorus, Total	mg/L	+/-20	0.079		0.082		1	3.73		11/07/2025

Duplicate Sample Summary

Client:	Holland Manufacturing Co.	SDG No.:	Q3554
Project:	Pre Treatment Plant 2025	Sample ID:	Q3554-01
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	0.53		0.53		1	1.51		11/07/2025
Phosphorus, Total	mg/L	+/-20	0.50		0.49		1	2.24		11/07/2025

Duplicate Sample Summary

Client:	Holland Manufacturing Co.	SDG No.:	Q3554
Project:	Pre Treatment Plant 2025	Sample ID:	Q3551-01
Client ID:	MANHOLEMSD	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	25.9		26.0		1	0.39		11/07/2025
Oil and Grease	mg/L	+/-18	38.6		38.8		1	0.52		11/07/2025

Duplicate Sample Summary

Client: Holland Manufacturing Co.	SDG No.: Q3554
Project: Pre Treatment Plant 2025	Sample ID: Q3560-01
Client ID: SY-10DDUP	Percent Solids for Spike Sample: 0

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/ AD	Qual	Analysis Date
Ammonia as N	mg/L	+/-20	8.10	OR	8.10	OR	1	0		11/11/2025
Ammonia as N	mg/L	+/-20	7.40	D	7.40	D	10	0		11/11/2025

Duplicate Sample Summary

Client:	Holland Manufacturing Co.	SDG No.:	Q3554
Project:	Pre Treatment Plant 2025	Sample ID:	Q3560-01
Client ID:	SY-10DMSD	Percent Solids for Spike Sample:	0

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/ AD	Qual	Analysis Date
Ammonia as N	mg/L	+/-20	9.10	OR	9.10	OR	1	0		11/11/2025

Laboratory Control Sample Summary

Client: Holland Manufacturing Co.

SDG No.: Q3554

Project: Pre Treatment Plant 2025

Run No.: LB137795

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID	LB137795BS							
BOD5	mg/L	198	191		97	1	84.6-115.4	11/05/2025

Laboratory Control Sample Summary

Client: Holland Manufacturing Co.

SDG No.: Q3554

Project: Pre Treatment Plant 2025

Run No.: LB137812

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID	LB137812BS							
TSS	mg/L	550	531		96	1	90-110	11/07/2025

Laboratory Control Sample Summary

Client: Holland Manufacturing Co.

SDG No.: Q3554

Project: Pre Treatment Plant 2025

Run No.: LB137814

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID	LB137814BS							
Oil and Grease	mg/L	20.0	16.9		84	1	78-114	11/07/2025

Laboratory Control Sample Summary

Client: Holland Manufacturing Co.

SDG No.: Q3554

Project: Pre Treatment Plant 2025

Run No.: LB137825

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID	LB137825BS							
Orthophosphate as P	mg/L	0.5	0.49		98	1	90-110	11/07/2025

Laboratory Control Sample Summary

Client: Holland Manufacturing Co.

SDG No.: Q3554

Project: Pre Treatment Plant 2025

Run No.: LB137801

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID	PB170403BS							
Ammonia as N	mg/L	1	0.95		95	1	90-110	11/06/2025

Laboratory Control Sample Summary

Client: Holland Manufacturing Co.

SDG No.: Q3554

Project: Pre Treatment Plant 2025

Run No.: LB137826

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID	PB170438BS							
Phosphorus, Total	mg/L	0.50	0.51		101	1	90-110	11/07/2025

Laboratory Control Sample Summary

Client: Holland Manufacturing Co.

SDG No.: Q3554

Project: Pre Treatment Plant 2025

Run No.: LB137852

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID	PB170466BS							
Ammonia as N	mg/L	1	0.97		97	1	90-110	11/11/2025



RAW DATA

BOD5 LOG

ANALYST: rubin

SUPERVISOR: Iwona

Analysis Date: 11/05/2025

MANGANOUS SULFATE SOLUTION: W3103

Alkaline Iodide Azide: W3109

Sodium Thiosulfate, 0.025N: W3248

NaOH, 1N: WP113878

IncubatorID: INCUBATOR #3

GuageID: 0511064

Zero DO: WP115341

QC BATCH ID: LB137795

BOD Water: WP115467

Starch: W3149

Sulfuric acid, 1N: WP115342

POLYSEED: WP115469

GGA: WP115468

Chlorine Strips: W3155

pH Strips: W3241

Lab SampleID	Client ID	Bottle No.	VOL. ML	Initial Reading (ML)	Final Reading (ML)	Difference	Average
WINKLER 1	WINKLER 1	1	300	0.0	9.8	9.8	9.8
WINKLER 2	WINKLER 2	2	300	9.9	19.7	9.8	9.8

Meter Calibration1: 9.21 Zero DO Reading1: 0.14 mg/L (<=0.2 Criteria)

Barometric Pressure1: 7.50 mmHg DO Meter BOD fluid reading for winkler comparison: 9.97

After Incubation

Meter Calibration2: 8.59 Zero DO Reading2: 0.10 mg/L (<=0.2 Criteria)

Barometric Pressure2: 750 mmHg

QC BATCH ID: LB137795

INCUBATOR TEMP IN(C): 20.1

INCUBATOR TEMP OUT(C): 20.1

TIME IN: 16:40

TIME OUT: 12:00

DATE IN: 11/05/2025

DATE OUT: 11/10/2025

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
LB137795BL	1	No	6.62	N/A	20.80	300	9.97	9.96	0.01	0.01	0.01	
POLYSEED	1					10	9.91	6.71	3.2	0.64	0.66	
POLYSEED	2					15	9.87	4.62	5.25	0.7		
POLYSEED	3					20	9.83	3.41	6.42	0.64		
GGA	1					6	9.90	5.48	4.42	188	191.17	
GGA	2					6	9.87	5.41	4.46	190		
GGA	3					6	9.86	5.29	4.57	195.5		
Q3547-02	1	No	7.74	7.02	20.40	5	9.95	8.28	-	0	740.33	pH Adjusted
Q3547-02	2					10	9.90	6.28	3.62	888		
Q3547-02	3					20	9.85	4.21	5.64	747		
Q3547-02	4					30	9.80	3.28	6.52	586		
Q3547-02DUP	1	No	7.74	7.02	20.40	5	9.94	8.39	-	0	739.67	pH Adjusted
Q3547-02DUP	2					10	9.90	6.33	3.57	873		
Q3547-02DUP	3					20	9.83	4.15	5.68	753		
Q3547-02DUP	4					30	9.78	3.19	6.59	593		
Q3550-01	1	No	5.87	7.27	20.10	5	9.92	8.71	-	0	2064	pH Adjusted
Q3550-01	2					10	9.90	8.67	-	0		
Q3550-01	3					20	9.85	7.67	2.18	2280		
Q3550-01	4					50	9.30	5.59	3.71	1830		
Q3550-01	5					100	8.71	1.11	7.6	2082		
Q3554-01	1	No	5.54	6.69	20.10	1	9.93	8.67	-	0	6740	pH Adjusted
Q3554-01	2					5	9.90	7.88	2.02	8160		
Q3554-01	3					10	9.82	6.64	3.18	7560		
Q3554-01	4					50	9.40	1.24	8.16	4500		
Q3554-01	5					100	8.72	0.43	-	0		
Q3554-05	1	No	5.48	6.98	20.10	1	9.92	8.84	-	0	8400	pH Adjusted
Q3554-05	2					5	9.90	7.92	-	0		
Q3554-05	3					10	9.87	6.41	3.46	8400		
Q3554-05	4					50	9.65	0.69	-	0		
Q3554-05	5					100	8.58	0.48	-	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.

WORKLIST(Hardcopy Internal Chain)

WorkList Name : BOD5-11-05 WorkList ID : 192909 Department : Wet-Chemistry Date : 11-05-2025 12:49:17

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q3547-02	Comp	Water	BOD5	Cool 4 deg C	ARAM01	J31	11/05/2025	SM5210 B
Q3550-01	DRAIN-WATER-TANK-1	Water	BOD5	Cool 4 deg C	MAJO01	A21	11/05/2025	SM5210 B

64137795

Date/Time 11/05/2025 14:00
Raw Sample Received by: RM WGO
Raw Sample Relinquished by: JCCWJ

Date/Time 11/05/2025 16:00
Raw Sample Received by: JCCWJ
Raw Sample Relinquished by: RM WGO

WORKLIST(Hardcopy Internal Chain)

6137795

WorkList Name : BOD5-3554 WorkList ID : 192948 Department : Wet-Chemistry Date : 11-05-2025 14:26:06

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q3554-01	EFFLUENT	Water	BOD5	Cool 4 deg C	HOLL01	D41	11/05/2025	SM5210 B
Q3554-05	INFLUENT	Water	BOD5	Cool 4 deg C	HOLL01	D41	11/05/2025	SM5210 B

Date/Time 11/05/2025 15:30
Raw Sample Received by: RMW
Raw Sample Relinquished by: RMW

Date/Time 11/05/2025 16:20
Raw Sample Received by: RMW
Raw Sample Relinquished by: _____

Test results

Aquakem 7.2AQ1

Page:

Alliance Technical Group
 284 Sheffield Street, Mountainside, NJ 07092

Reviewed by : RM Instrument ID : Konelab

11/6/2025 13:58

Test: Ammonia-N

Sample Id	Result	Dil. 1 +	Response	Errors
ICV1	0.961	0.0	0.203	
ICB1	0.006	0.0	0.018	
CCV1	0.968	0.0	0.204	
CCB1	0.004	0.0	0.017	
RL CHECK	0.102	0.0	0.036	
PB170403BL	0.009	0.0	0.018	
PB170403BS	0.945	0.0	0.200	
Q3537-03	0.039	0.0	0.024	
Q3537-03DUP	0.037	0.0	0.024	
Q3537-03MS	1.039	0.0	0.218	
Q3537-03MSD	1.029	0.0	0.216	
Q3541-01	0.020	0.0	0.020	
Q3554-05	5.695	0.0	1.122	Test limit high
Q3551-04	3.962	0.0	0.786	Test limit high
CCV2	1.101	0.0	0.230	
CCB2	0.005	0.0	0.018	
Q3551-04DLX5	0.816	0.0	0.175	
Q3554-05DLX5	1.155	0.0	0.241	
CCV3	1.052	0.0	0.221	
CCB3	0.014	0.0	0.019	

1021 (50-150)
 11/06/2025
 RM

N 20
 Mean 0.948
 SD 1.4396
 CV% 151.89

Aquakem v. 7.2AQ1

Results from time period:

Thu Nov 06 12:06:46 2025

Thu Nov 06 13:53:29 2025

Sample Id	Sam/Ctr/c/	Test short r	Test type	Result	Result unit	Result date and time	Stat
0.0PPM	A	Ammonia-† P		0.0144	mg/l	11/6/2025 12:06:46	
0.1PPM	A	Ammonia-† P		0.1036	mg/l	11/6/2025 12:06:47	
0.2PPM	A	Ammonia-† P		0.1969	mg/l	11/6/2025 12:06:48	
0.4PPM	A	Ammonia-† P		0.3941	mg/l	11/6/2025 12:06:49	
1.0PPM	A	Ammonia-† P		0.9746	mg/l	11/6/2025 12:06:50	
1.3PPM	A	Ammonia-† P		1.3406	mg/l	11/6/2025 12:06:51	
2.0PPM	A	Ammonia-† P		2.0092	mg/l	11/6/2025 12:06:52	
ICV1	S	Ammonia-† P		0.9606	mg/l	11/6/2025 12:48:23	
ICB1	S	Ammonia-† P		0.0057	mg/l	11/6/2025 12:48:24	
CCV1	S	Ammonia-† P		0.9675	mg/l	11/6/2025 12:48:26	
CCB1	S	Ammonia-† P		0.004	mg/l	11/6/2025 12:48:28	
RL CHECK	S	Ammonia-† P		0.1018	mg/l	11/6/2025 12:48:30	
PB170403BL	S	Ammonia-† P		0.009	mg/l	11/6/2025 12:59:04	
PB170403BS	S	Ammonia-† P		0.9451	mg/l	11/6/2025 12:59:06	
Q3537-03	S	Ammonia-† P		0.0386	mg/l	11/6/2025 12:59:08	
Q3537-03DUP	S	Ammonia-† P		0.0373	mg/l	11/6/2025 12:59:10	
Q3537-03MS	S	Ammonia-† P		1.0394	mg/l	11/6/2025 12:59:11	
Q3537-03MSD	S	Ammonia-† P		1.029	mg/l	11/6/2025 12:59:12	
Q3541-01	S	Ammonia-† P		0.0197	mg/l	11/6/2025 13:08:02	
Q3554-05	S	Ammonia-† P		5.6945	mg/l	11/6/2025 13:08:03	
Q3551-04	S	Ammonia-† P		3.9617	mg/l	11/6/2025 13:08:04	
CCV2	S	Ammonia-† P		1.1008	mg/l	11/6/2025 13:08:08	
CCB2	S	Ammonia-† P		0.0053	mg/l	11/6/2025 13:08:10	
Q3551-04DLX5	S	Ammonia-† P		0.8158	mg/l	11/6/2025 13:53:25	
Q3554-05DLX5	S	Ammonia-† P		1.1549	mg/l	11/6/2025 13:53:27	
CCV3	S	Ammonia-† P		1.0524	mg/l	11/6/2025 13:53:28	
CCB3	S	Ammonia-† P		0.0137	mg/l	11/6/2025 13:53:29	

Calibration results

Aquakem 7.2AQ1

Page:

Alliance Technical Group

284 Sheffield Street, Mountainside, NJ 07092

Reviewed by : RM

Instrument ID : Konelab

11/6/2025 12:19

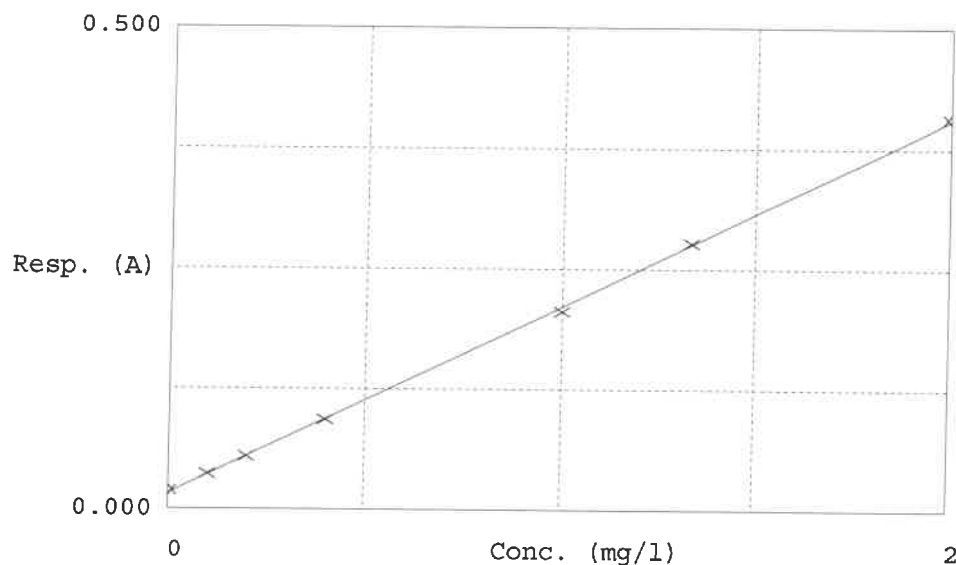
Test Ammonia-N

Accepted 11/6/2025 12:19

Factor 5.15
 Bias 0.016

Coeff. of det. 0.999689

Errors



	Calibrator	Response	Calc. con.	Conc.	Re Errors
1	0.00PPM	0.019	0.0144	0.0000	-
2	NH3-2PPM	0.037	0.1036	0.1000	3.6
3	NH3-2PPM	0.055	0.1969	0.2000	-1.6
4	NH3-2PPM	0.093	0.3941	0.4000	-1.5
5	NH3-2PPM	0.206	0.9746	1.0000	-2.5
6	NH3-2PPM	0.277	1.3406	1.3333	3.1
7	NH3-2PPM	0.407	2.0092	2.0000	0.5

11/06/2025
 RM

TOTAL SUSPENDED SOLIDS - SM2540D

SUPERVISOR: Iwona

ANALYST: jignesh

Date: 11/06/2025

Run Number: LB137812

BalanceID: WC SC-5

OvenID: WC OVEN-1

FilterID: 17416528

ThermometerID: WET OVEN#1

TEMP1 IN: 104 °C 11/06/2025 14:30 **TEMP1 OUT:** 103 °C 11/06/2025 15:30
TEMP2 IN: 104 °C 11/06/2025 16:00 **TEMP2 OUT:** 104 °C 11/06/2025 17:00
TEMP3 IN: 104 °C 11/07/2025 10:00 **TEMP3 OUT:** 103 °C 11/07/2025 11:35
TEMP4 IN: 104 °C 11/07/2025 12:15 **TEMP4 OUT:** 103 °C 11/07/2025 14:10

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	LB137812BL	LB137812BL	1.4741	1.4742	100	1.4742	1.4742	1.4742	0.0000	0
2	LB137812BS	LB137812BS	1.3652	1.3653	100	1.4184	1.4184	1.4184	0.0531	531
3	Q3547-02	Comp	1.4926	1.4927	100	1.5268	1.5268	1.5268	0.0341	341
4	Q3550-01	DRAIN-WATER-TANK-1	1.4949	1.4949	100	1.5349	1.5349	1.5349	0.0400	400
5	Q3551-04	MANHOLE	1.4779	1.4779	1000	1.5259	1.5259	1.5259	0.0480	48
6	Q3551-04DUP	MANHOLEDUP	1.4942	1.4942	1000	1.5424	1.5424	1.5424	0.0482	48.2
7	Q3554-01	EFFLUENT	1.4694	1.4694	30	1.5038	1.5038	1.5038	0.0344	1146.7
8	Q3554-04	AERATION	1.4936	1.4936	30	1.5366	1.5366	1.5366	0.0430	1433.3
9	Q3560-01	SY-10D	1.4772	1.4772	2000	1.4777	1.4777	1.4777	0.0005	0.3
10	Q3560-03	SY-10S	1.4916	1.4917	2000	1.4923	1.4923	1.4923	0.0006	0.3
11	Q3560-05	SY-10I	1.4888	1.4888	2000	1.4892	1.4892	1.4892	0.0004	0.2
12	Q3560-07	SY-12I	1.4796	1.4796	2000	1.4813	1.4813	1.4813	0.0017	0.8
13	Q3560-09	SY-12D	1.5005	1.5005	2000	1.5008	1.5008	1.5008	0.0003	0.2

TOTAL SUSPENDED SOLIDS - SM2540D

SUPERVISOR: Iwona

ANALYST: jignesh

Date: 11/06/2025

Run Number: LB137812

BalanceID: WC SC-5

OvenID: WC OVEN-1

FilterID: 17416528

ThermometerID: WET OVEN#1

TEMP1 IN: 104 °C 11/06/2025 14:30 **TEMP1 OUT:** 103 °C 11/06/2025 15:30
TEMP2 IN: 104 °C 11/06/2025 16:00 **TEMP2 OUT:** 104 °C 11/06/2025 17:00
TEMP3 IN: 104 °C 11/07/2025 10:00 **TEMP3 OUT:** 103 °C 11/07/2025 11:35
TEMP4 IN: 104 °C 11/07/2025 12:15 **TEMP4 OUT:** 103 °C 11/07/2025 14:10

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

A = Sample Volume (ml)
 B = Final Empty Dish Weight (g)
 C = Final Empty Dish + Sample weight after 1.5 hr drying @105°C(g)
 D = Weight (g)

Weight (g) = C - B

Result mg/L = $\frac{D}{A} \times 1000 \times 1000$

WORKLIST(Hardcopy Internal Chain)

WB 137812

WorkList Name : tss q3560 WorkList ID : 192961 Department : Wet-Chemistry Date : 11-07-2025 07:55:40

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q3547-02	Comp	Water	TSS	Cool 4 deg C	ARAM01	J31	11/05/2025	SM2540 D
Q3550-01	DRAIN-WATER-TANK-1	Water	TSS	Cool 4 deg C	MAJO01	A21	11/05/2025	SM2540 D
Q3551-04	MANHOLE	Water	TSS	Cool 4 deg C	SPEC01	D41	11/05/2025	SM2540 D
Q3554-01	EFFLUENT	Water	TSS	Cool 4 deg C	HOLL01	D41	11/05/2025	SM2540 D
Q3554-04	AERATION	Water	TSS	Cool 4 deg C	HOLL01	D41	11/05/2025	SM2540 D
Q3560-01	SY-10D	Water	TSS	Cool 4 deg C	LOCK01	J22	11/05/2025	SM2540 D
Q3560-03	SY-10S	Water	TSS	Cool 4 deg C	LOCK01	J22	11/05/2025	SM2540 D
Q3560-05	SY-10I	Water	TSS	Cool 4 deg C	LOCK01	J22	11/05/2025	SM2540 D
Q3560-07	SY-12I	Water	TSS	Cool 4 deg C	LOCK01	J22	11/05/2025	SM2540 D
Q3560-09	SY-12D	Water	TSS	Cool 4 deg C	LOCK01	J22	11/05/2025	SM2540 D

Date/Time 11/07/25 08:10

Raw Sample Received by: SD Sully

Raw Sample Relinquished by: CH Sully

Date/Time

Raw Sample Received by:

Raw Sample Relinquished by:

11/07/25

14:40

CH Sully

Extraction and Analytical Summary Report

Analysis Method: 1664A

Test: Oil and Grease

Run Number: LB137814

Analysis Date: 11/07/2025

BalanceID: WC SC-5

OvenID: EXT OVEN-3

ANALYST: jignesh

REVIEWED BY: Iwona

Extraction Date: 11/07/2025

Extraction IN Time: 08:10

Extraction OUT Time: 10:00

Thermometer ID: EXT OVEN#3

Dish #	Lab ID	Client ID	Matrix	pH	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	LB137814BL	LB137814BL	WATER	1.3	1000	100	3.6217	3.6217	0	3.6218	3.6218	0.0001	0.1
2	LB137814BS	LB137814BS	WATER	1.3	1000	100	2.7413	2.7413	0	2.7582	2.7582	0.0169	16.9
3	Q3442-01	SW-1	WATER	1.3	1000	100	3.0325	3.0325	0	3.0341	3.0341	0.0016	1.6
4	Q3498-01	GREASE	WATER	1.6	400	100	3.0720	3.0720	0	4.0047	4.0047	0.9327	2331.75
5	Q3507-01	SW-1	WATER	1.3	400	100	3.0549	3.0549	0	3.0604	3.0604	0.0055	13.75
6	Q3508-01	SW-1	WATER	1.3	1000	100	3.0737	3.0737	0	3.0740	3.0740	0.0003	0.3
7	Q3510-01	OUTFALL-002	WATER	1.3	1000	100	3.0633	3.0633	0	3.0651	3.0651	0.0018	1.8
8	Q3511-01	OUTFALL-001	WATER	1.6	1000	100	3.0791	3.0791	0	3.0793	3.0793	0.0002	0.2
9	Q3511-02	OUTFALL-002	WATER	1.6	1000	100	3.0754	3.0754	0	3.0757	3.0757	0.0003	0.3
10	Q3530-07	LOD-MDL-WATER-01-QT4-2	WATER	1.3	1000	100	3.0423	3.0423	0	3.0445	3.0445	0.0022	2.2
11	Q3530-08	LOQ-WATER-02-QT4-2025	WATER	1.3	1000	100	3.0680	3.0680	0	3.0728	3.0728	0.0048	4.8
12	Q3534-01	MW-6	WATER	1.6	1000	100	3.0523	3.0523	0	3.0538	3.0538	0.0015	1.5
13	Q3534-02	MW-1	WATER	1.3	1000	100	3.0580	3.0580	0	3.0582	3.0582	0.0002	0.2
14	Q3534-03	MW-11	WATER	1.3	1000	100	3.0377	3.0377	0	3.0381	3.0381	0.0004	0.4
15	Q3534-04	MW-5	WATER	1.6	1000	100	3.0972	3.0972	0	3.0975	3.0975	0.0003	0.3
16	Q3534-05	MW-EB-1	WATER	1.6	1000	100	3.0588	3.0588	0	3.0642	3.0642	0.0054	5.4
17	Q3534-06	MW-EB-2	WATER	1.6	1000	100	3.0185	3.0185	0	3.0191	3.0191	0.0006	0.6
18	Q3534-07	MW-EB-3	WATER	1.6	1000	100	3.0266	3.0266	0	3.0273	3.0273	0.0007	0.7
19	Q3534-09	FB-1	WATER	1.3	1000	100	3.0643	3.0643	0	3.0644	3.0644	0.0001	0.1
20	Q3534-10	EB-1	WATER	1.3	1000	100	3.0633	3.0633	0	3.0634	3.0634	0.0001	0.1
21	Q3551-01	MANHOLE	WATER	1.6	1000	100	3.1237	3.1237	0	3.1295	3.1295	0.0058	5.8
22	Q3551-02	Q3551-01MS	WATER	1.6	1000	100	2.8563	2.8563	0	2.8822	2.8822	0.0259	25.9
23	Q3551-03	Q3551-01MSD	WATER	1.6	1000	100	3.0478	3.0478	0	3.0738	3.0738	0.0260	26
24	Q3552-01	MW-4	WATER	1.6	1000	100	2.9892	2.9892	0	2.9910	2.9910	0.0018	1.8

25	Q3552-02	MW-8	WATER	1.6	1000	100	3.0353	3.0353	0	3.0362	3.0362	0.0009	0.9
26	Q3552-03	MW-9	WATER	1.6	1000	100	3.0181	3.0181	0	3.0192	3.0192	0.0011	1.1
27	Q3552-04	MW-10	WATER	1.3	1000	100	3.0502	3.0502	0	3.0505	3.0505	0.0003	0.3
28	Q3552-05	MW-3	WATER	1.3	1000	100	3.0778	3.0778	0	3.0827	3.0827	0.0049	4.9
29	Q3554-01	EFFLUENT	WATER	1.6	1000	100	3.1345	3.1345	0	3.1529	3.1529	0.0184	18.4
30	Q3554-02	Q3554-01MS	WATER	1.6	1000	100	2.8506	2.8506	0	2.8892	2.8892	0.0386	38.6
31	Q3554-03	Q3554-01MSD	WATER	1.6	1000	100	3.1589	3.1589	0	3.1977	3.1977	0.0388	38.8

QC Batch# LB137814

Test: Oil and Grease

Analysis Date: 11/07/2025

Chemicals Used:

Chemical Name	Chemical Lot #
HEXANE	W3240
pH Paper 0-14	M6069
Sodium Sulfate	EP2655
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 : 70 °C Dessicator Time In1 : 11:36

1.0000 gram Balance: 1.0004 (0.9950-1.0050) In Time1: 10:30

Bal Check Time: 08:20 Out OVEN TEMP1: 71 °C Dessicator Time Out1: 12:00

Out Time1: 11:35

After Analysis

0.0020 gram Balance: 0.0019 (0.0018-0.0022) In OVEN TEMP2 : 70 °C Dessicator Time In2 : 13:31

1.0000 gram Balance: 1.0005 (0.9950-1.0050) In Time2: 12:45

Bal Check Time: 14:10 Out OVEN TEMP2: 70 °C Dessicator Time Out2: 14:00

Out Time2: 13:30

WORKLIST(Hardcopy Internal Chain)

137814

WorkList Name : OIL & GREASE Q3534

WorkList ID : 192960

Department : Wet-Chemistry

Date : 11-07-2025 07:52:49

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q3442-01	SW-1	Water	Oil and Grease	Conc H2SO4 to pH < 2	ATGG01	D41	10/18/2025	1664A
Q3498-01	GREASE	Water	Oil and Grease	Conc H2SO4 to pH < 2	LOEF01	D41	10/30/2025	1664A
Q3507-01	SW-1	Water	Oil and Grease	Conc H2SO4 to pH < 2	ATGG01	J12	10/30/2025	1664A
Q3508-01	SW-1	Water	Oil and Grease	Conc H2SO4 to pH < 2	ATGG01	J21	10/30/2025	1664A
Q3510-01	OUTFALL-002	Water	Oil and Grease	Conc H2SO4 to pH < 2	ATGG01	D41	10/30/2025	1664A
Q3511-01	OUTFALL-001	Water	Oil and Grease	Conc H2SO4 to pH < 2	ATGG01	D41	10/30/2025	1664A
Q3511-02	OUTFALL-002	Water	Oil and Grease	Conc H2SO4 to pH < 2	ATGG01	D41	10/30/2025	1664A
Q3530-07	LOD-MDL-WATER-01-QT4-202	Water	Oil and Grease	Conc H2SO4 to pH < 2	ALLI03	QA OI	11/03/2025	1664A
Q3530-08	LOQ-WATER-02-QT4-2025	Water	Oil and Grease	Conc H2SO4 to pH < 2	ALLI03	QA OI	11/03/2025	1664A
Q3534-01	MW-6	Water	Oil and Grease	Conc H2SO4 to pH < 2	REMI02	D31	11/03/2025	1664A
Q3534-02	MW-1	Water	Oil and Grease	Conc H2SO4 to pH < 2	REMI02	D31	11/03/2025	1664A
Q3534-03	MW-11	Water	Oil and Grease	Conc H2SO4 to pH < 2	REMI02	D31	11/03/2025	1664A
Q3534-04	MW-5	Water	Oil and Grease	Conc H2SO4 to pH < 2	REMI02	D31	11/03/2025	1664A
Q3534-05	MW-EB-1	Water	Oil and Grease	Conc H2SO4 to pH < 2	REMI02	D31	11/04/2025	1664A
Q3534-06	MW-EB-2	Water	Oil and Grease	Conc H2SO4 to pH < 2	REMI02	D31	11/03/2025	1664A
Q3534-07	MW-EB-3	Water	Oil and Grease	Conc H2SO4 to pH < 2	REMI02	D31	11/04/2025	1664A
Q3534-09	FB-1	Water	Oil and Grease	Conc H2SO4 to pH < 2	REMI02	D31	11/03/2025	1664A
Q3534-10	EB-1	Water	Oil and Grease	Conc H2SO4 to pH < 2	REMI02	D31	11/04/2025	1664A
Q3551-01	MANHOLE	Water	Oil and Grease	Conc H2SO4 to pH < 2	SPEC01	D41	11/05/2025	1664A
Q3551-02	Q3551-01MS	Water	Oil and Grease	Conc H2SO4 to pH < 2	SPEC01	D41	11/05/2025	1664A
Q3551-03	Q3551-01MSD	Water	Oil and Grease	Conc H2SO4 to pH < 2	SPEC01	D41	11/05/2025	1664A

Date/Time 11/07/25 08:00
 Raw Sample Received by: JH WDCI
 Raw Sample Relinquished by: JH WDCI

Date/Time 11/07/25
 Raw Sample Received by: JH WDCI
 Raw Sample Relinquished by: JH WDCI

WORKLIST(Hardcopy Internal Chain)

18737814

WorkList Name : OIL & GREASE Q3534 WorkList ID : 192960 Department : Wet-Chemistry Date : 11-07-2025 07:52:49

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q3552-01	MW-4	Water	Oil and Grease	Conc H2SO4 to pH < 2	REMI02	D41	11/04/2025	1664A
Q3552-02	MW-8	Water	Oil and Grease	Conc H2SO4 to pH < 2	REMI02	D41	11/04/2025	1664A
Q3552-03	MW-9	Water	Oil and Grease	Conc H2SO4 to pH < 2	REMI02	D41	11/04/2025	1664A
Q3552-04	MW-10	Water	Oil and Grease	Conc H2SO4 to pH < 2	REMI02	D41	11/05/2025	1664A
Q3552-05	MW-3	Water	Oil and Grease	Conc H2SO4 to pH < 2	REMI02	D41	11/04/2025	1664A
Q3554-01	EFFLUENT	Water	Oil and Grease	Conc H2SO4 to pH < 2	HOLL01	D41	11/05/2025	1664A
Q3554-02	Q3554-01MS	Water	Oil and Grease	Conc H2SO4 to pH < 2	HOLL01	D41	11/05/2025	1664A
Q3554-03	Q3554-01MSD	Water	Oil and Grease	Conc H2SO4 to pH < 2	HOLL01	D41	11/05/2025	1664A

Date/Time 11/07/25 08:00
 Raw Sample Received by: [Signature]
 Raw Sample Relinquished by: [Signature]

Date/Time 11/07/25 16:40
 Raw Sample Received by: [Signature]
 Raw Sample Relinquished by: [Signature]

Analytical Summary Report

Analysis Method: SM4500-P E

ANALYST: Iwona

Parameter: Phosphorus-Ortho

SUPERVISOR REVIEW BY: jignesh

Run Number: LB137825

Reagent/Standard	Lot/Log #
calibration std. phosphate 1 ppm	WP115565
calibration std. phosphate 0.5 ppm	WP115564
calibration std. phosphate 0.3 ppm	WP115563
calibration std. phosphate 0.1 ppm	WP115562
calibration std. phosphate 0.05 ppm	WP115561
calibration std. 0 ppm	WP115560
phosphate CCV std.	WP115567
5N sulfuric acid	WP115340
Combined reagent	WP115573
Phenolphthalein indicator	WP113378
Sodium hydroxide, 1N	WP113878
Phosphate LOQ std, 0.05PPM	WP115570
Phosphate ICV-LCS Std	WP115566
Phosphate LOD-MDL Std 0.025ppm	WP115571
Phosphate RL CHECK	WP115568

Intercept: -0.0018

Slope: 0.6526

Regression: 0.999903

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		11/07/2025	11:30
2	CAL2	0.05	1	50	50	0.032	0.052	4	11/07/2025	11:30
3	CAL3	0.10	1	50	50	0.065	0.102	2	11/07/2025	11:31
4	CAL4	0.30	1	50	50	0.187	0.289	-3.7	11/07/2025	11:31
5	CAL5	0.50	1	50	50	0.326	0.502	0.4	11/07/2025	11:32
6	CAL6	1.00	1	50	50	0.652	1.002	0.2	11/07/2025	11:32

Analytical Summary Report

Analysis Method: SM4500-P E

ANALYST: Iwona

Parameter: Phosphorus-Ortho

SUPERVISOR REVIEW BY: jignesh

Run Number: LB137825

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	0.493	11/07/2025	11:33
2	ICB		1	50	50	0.002	0.006	11/07/2025	11:33
3	CCV1	0.5	1	50	50	0.327	0.504	11/07/2025	11:34
4	CCB1		1	50	50	0.003	0.007	11/07/2025	11:34
5	RL Check	0.05	1	50	50	0.025	0.041	11/07/2025	11:35
6	LB137825BL		1	50	50	0.004	0.009	11/07/2025	11:35
7	LB137825BS	0.5	1	50	50	0.318	0.490	11/07/2025	11:36
8	Q3530-07		1	50	50	0.012	0.021	11/07/2025	11:36
9	Q3530-08		1	50	50	0.029	0.047	11/07/2025	11:37
10	Q3554-01		1	50	50	0.033	0.053	11/07/2025	11:37
11	Q3554-01DUP		1	50	50	0.032	0.052	11/07/2025	11:38
12	Q3554-01MS	0.5	1	50	50	0.341	0.525	11/07/2025	11:38
13	Q3554-01MSD	0.5	1	50	50	0.346	0.533	11/07/2025	11:39
14	CCV2	0.5	1	50	50	0.325	0.501	11/07/2025	11:39
15	CCB2		1	50	50	0.002	0.006	11/07/2025	11:40

WORKLIST(Hardcopy Internal Chain)

LB137825

WorkList Name : ORTHO PH- 110525 WorkList ID : 192920 Department : Wet-Chemistry Date : 11-05-2025 15:45:58

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q3530-07	LOD-MDL-WATER-01-QT4-202	Water	Phosphorus-Ortho	Cool 4 deg C	ALLI03	QA 01	11/03/2025	SM4500-P E
Q3530-08	LOQ-WATER-02-QT4-2025	Water	Phosphorus-Ortho	Cool 4 deg C	ALLI03	QA 01	11/03/2025	SM4500-P E
Q3554-01	EFFLUENT	Water	Phosphorus-Ortho	Cool 4 deg C	HOLL01	D41	11/05/2025	SM4500-P E

Date/Time 11/05/25 16:10
 Raw Sample Received by: 12(50)
 Raw Sample Relinquished by: 206000

Date/Time 11/05/25 16:55
 Raw Sample Received by: 206000
 Raw Sample Relinquished by: 12(50)

Analytical Summary Report

Analysis Method: 365.3
Parameter: Phosphorus-Total
Run Number: LB137826

ANALYST: Iwona
SUPERVISOR REVIEW BY: jignesh

Reagent/Standard	Lot/Log #
calibration std. phosphate 1 ppm	WP115565
calibration std. phosphate 0.5 ppm	WP115564
calibration std. phosphate 0.3 ppm	WP115563
calibration std. phosphate 0.1 ppm	WP115562
calibration std. phosphate 0.05 ppm	WP115561
calibration std. 0 ppm	WP115560
phosphate CCV std.	WP115567
5N sulfuric acid	WP115340
Combined reagent	WP115573
Phenolphthalein indicator	WP113378
Sodium hydroxide, 1N	WP113878
Phosphosphate LOQ std, 0.05PPM	WP115570
Phosphate ICV-LCS Std	WP115566
Phosphate LOD-MDL Std 0.025ppm	WP115571

Intercept: -0.0033 Slope: 0.6527 Regression: 0.999871

Seq	Lab ID	True Value (mg/L)	DF	Initial Volume (mL)	Final Volume (mL)	Absorbance Reading at 880nm	Result (mg/L)	%D	AnalDate	AnalTime
1	CAL1	0.00	1	50	50	0.000	0.005		11/07/2025	12:10
2	CAL2	0.05	1	50	50	0.031	0.053	6	11/07/2025	12:10
3	CAL3	0.10	1	50	50	0.063	0.102	2	11/07/2025	12:11
4	CAL4	0.30	1	50	50	0.185	0.288	-4	11/07/2025	12:11
5	CAL5	0.50	1	50	50	0.322	0.498	-0.4	11/07/2025	12:12
6	CAL6	1.00	1	50	50	0.652	1.004	0.4	11/07/2025	12:12

Analytical Summary Report

Analysis Method: 365.3

ANALYST: Iwona

Parameter: Phosphorus-Total

SUPERVISOR REVIEW BY: jignesh

Run Number: LB137826

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	0.329	0.509	11/07/2025	12:13
2	ICB		1	50	50	0.001	0.007	11/07/2025	12:13
3	CCV1	0.50	1	50	50	0.320	0.495	11/07/2025	12:14
4	CCB1		1	50	50	0.003	0.010	11/07/2025	12:14
5	RL Check	0.05	1	50	50	0.033	0.056	11/07/2025	12:15
6	PB170438BL		1	50	50	0.004	0.011	11/07/2025	12:15
7	PB170438BS	0.50	1	50	50	0.326	0.505	11/07/2025	12:16
8	Q3530-07		1	50	50	0.014	0.027	11/07/2025	12:16
9	Q3530-08		1	50	50	0.030	0.051	11/07/2025	12:17
10	Q3554-01		1	50	50	0.048	0.079	11/07/2025	12:17
11	Q3554-01DUP		1	50	50	0.050	0.082	11/07/2025	12:18
12	Q3554-01MS	0.50	1	50	50	0.321	0.497	11/07/2025	12:18
13	Q3554-01MSD	0.50	1	50	50	0.314	0.486	11/07/2025	12:19
14	CCV2	0.50	1	50	50	0.327	0.506	11/07/2025	12:19
15	CCB2		1	50	50	0.004	0.011	11/07/2025	12:20

LB137852

Test results

Aquakem 7.2AQ1

Page: 1

Alliance Technical Group

284 Sheffield Street, Mountainside, NJ 07092

Reviewed by : RM

Instrument ID : Konelab

11/11/2025 13:51

Test: Ammonia-N

Sample Id	Result	Dil. 1 +	Response	Errors
ICV1	0.965	0.0	0.197	
ICB1	0.011	0.0	0.019	
CCV1	0.953	0.0	0.195	
CCB1	0.012	0.0	0.019	
RL CHECK	0.093	0.0	0.034	
PB170466BL	0.014	0.0	0.020	
PB170466BS	0.974	0.0	0.198	
Q3530-08	0.110	0.0	0.038	
Q3554-01	8.281	0.0	1.558	Test limit high
Q3560-01	8.111	0.0	1.527	Test limit high
Q3560-01DUP	8.132	0.0	1.531	Test limit high
Q3560-01MS	9.060	0.0	1.703	Test limit high
Q3560-01MSD	9.061	0.0	1.704	Test limit high
CCV2	0.956	0.0	0.195	
CCB2	0.013	0.0	0.020	
Q3560-03	0.015	0.0	0.020	
Q3560-05	0.074	0.0	0.031	
Q3560-07	32.190	0.0	6.009	Init abs., Test limit hig
Q3560-09	1.401	0.0	0.278	
Q3566-01	1.031	0.0	0.209	
Q3575-01	3.637	0.0	0.694	Test limit high
Q3575-02	3.669	0.0	0.700	Test limit high
PB170467BL	0.017	0.0	0.020	
PB170467BS	0.968	0.0	0.197	
CCV3	0.968	0.0	0.197	
CCB3	0.015	0.0	0.020	
Q3530-02	0.109	0.0	0.037	
Q3483-07	26.826	0.0	5.010	Init abs., Test limit hig
CCV4	0.962	0.0	0.196	
CCB4	0.017	0.0	0.020	
Q3554-01DLX10	0.766	0.0	0.160	
Q3560-01DLX10	0.743	0.0	0.155	
Q3560-01DUPDLX10	0.739	0.0	0.155	
Q3560-07DLX20	2.160	0.0	0.419	Test limit high
Q3575-01DLX5	0.700	0.0	0.147	
Q3575-02DLX5	0.698	0.0	0.147	
Q3483-07DLX20	1.241	0.0	0.248	
CCV5	0.987	0.0	0.201	
CCB5	0.016	0.0	0.020	
Q3530-07	0.084	0.0	0.033	
Q3530-01	0.085	0.0	0.033	
Q3560-07DL2X40	1.049	0.0	0.212	
CCV6	0.944	0.0	0.193	
CCB6	0.019	0.0	0.021	

93% (50-150)

11/11/2025

RM

N 44
Mean 2.929
SD 6.4540
CV% 220.35

Aquakem v. 7.2AQ1

Results from time period:

Tue Nov 11 10:21:07 2025

Tue Nov 11 13:46:45 2025

Sample Id	Sam/Ctr/c	Test short r	Test type	Result	Result unit	Result date and time
0.0PPM	A	Ammonia-† P		0.0156	mg/l	11/11/2025 10:21:07
0.1PPM	A	Ammonia-† P		0.1113	mg/l	11/11/2025 10:21:08
0.2PPM	A	Ammonia-† P		0.2016	mg/l	11/11/2025 10:21:09
0.4PPM	A	Ammonia-† P		0.3916	mg/l	11/11/2025 10:21:10
1.0PPM	A	Ammonia-† P		0.9896	mg/l	11/11/2025 10:21:11
1.3PPM	A	Ammonia-† P		1.2858	mg/l	11/11/2025 10:21:12
2.0PPM	A	Ammonia-† P		2.0378	mg/l	11/11/2025 10:21:13
ICV1	S	Ammonia-† P		0.9652	mg/l	11/11/2025 11:35:15
ICB1	S	Ammonia-† P		0.0114	mg/l	11/11/2025 11:35:17
CCV1	S	Ammonia-† P		0.9533	mg/l	11/11/2025 11:35:19
CCB1	S	Ammonia-† P		0.012	mg/l	11/11/2025 11:35:21
RL CHECK	S	Ammonia-† P		0.093	mg/l	11/11/2025 11:35:24
PB170466BL	S	Ammonia-† P		0.014	mg/l	11/11/2025 11:45:59
PB170466BS	S	Ammonia-† P		0.9743	mg/l	11/11/2025 11:46:01
Q3530-08	S	Ammonia-† P		0.11	mg/l	11/11/2025 11:46:06
Q3554-01	S	Ammonia-† P		8.2812	mg/l	11/11/2025 11:46:08
Q3560-01	S	Ammonia-† P		8.1108	mg/l	11/11/2025 11:46:09
Q3560-01DUP	S	Ammonia-† P		8.1315	mg/l	11/11/2025 11:56:44
Q3560-01MS	S	Ammonia-† P		9.0598	mg/l	11/11/2025 11:56:45
Q3560-01MSD	S	Ammonia-† P		9.0607	mg/l	11/11/2025 11:56:46
CCV2	S	Ammonia-† P		0.9558	mg/l	11/11/2025 11:56:49
CCB2	S	Ammonia-† P		0.0132	mg/l	11/11/2025 11:56:52
Q3560-03	S	Ammonia-† P		0.0148	mg/l	11/11/2025 11:56:53
Q3560-05	S	Ammonia-† P		0.0742	mg/l	11/11/2025 11:56:54
Q3560-07	S	Ammonia-† P		32.1902	mg/l	11/11/2025 12:07:27
Q3560-09	S	Ammonia-† P		1.4013	mg/l	11/11/2025 12:07:28
Q3566-01	S	Ammonia-† P		1.0306	mg/l	11/11/2025 12:07:29
Q3575-01	S	Ammonia-† P		3.6373	mg/l	11/11/2025 12:07:30
Q3575-02	S	Ammonia-† P		3.6691	mg/l	11/11/2025 12:07:31
PB170467BL	S	Ammonia-† P		0.0166	mg/l	11/11/2025 12:07:33
PB170467BS	S	Ammonia-† P		0.9678	mg/l	11/11/2025 12:07:34
CCV3	S	Ammonia-† P		0.9678	mg/l	11/11/2025 12:18:13
CCB3	S	Ammonia-† P		0.0153	mg/l	11/11/2025 12:18:16
Q3530-02	S	Ammonia-† P		0.1088	mg/l	11/11/2025 12:18:17
Q3483-07	S	Ammonia-† P		26.8257	mg/l	11/11/2025 12:18:20
CCV4	S	Ammonia-† P		0.9622	mg/l	11/11/2025 12:28:24
CCB4	S	Ammonia-† P		0.0166	mg/l	11/11/2025 12:28:27
Q3554-01DLX10	S	Ammonia-† P		0.7655	mg/l	11/11/2025 13:06:05
Q3560-01DLX10	S	Ammonia-† P		0.7427	mg/l	11/11/2025 13:06:07

Q3560-01DUPDLX10	S	Ammonia-↑ P	0.7393 mg/l	11/11/2025 13:06:08
Q3560-07DLX20	S	Ammonia-↑ P	2.1597 mg/l	11/11/2025 13:06:10
Q3575-01DLX5	S	Ammonia-↑ P	0.6996 mg/l	11/11/2025 13:16:43
Q3575-02DLX5	S	Ammonia-↑ P	0.6979 mg/l	11/11/2025 13:16:44
Q3483-07DLX20	S	Ammonia-↑ P	1.2405 mg/l	11/11/2025 13:16:47
CCV5	S	Ammonia-↑ P	0.9865 mg/l	11/11/2025 13:22:12
CCB5	S	Ammonia-↑ P	0.0163 mg/l	11/11/2025 13:22:13
Q3530-07	S	Ammonia-↑ P	0.0843 mg/l	11/11/2025 13:46:35
Q3530-01	S	Ammonia-↑ P	0.0855 mg/l	11/11/2025 13:46:36
Q3560-07DL2X40	S	Ammonia-↑ P	1.0495 mg/l	11/11/2025 13:46:41
CCV6	S	Ammonia-↑ P	0.9438 mg/l	11/11/2025 13:46:42
CCB6	S	Ammonia-↑ P	0.0195 mg/l	11/11/2025 13:46:45

Calibration results

Aquakem 7.2AQ1

Page: 1

Alliance Technical Group

284 Sheffield Street, Mountainside, NJ 07092

Reviewed by : RM

Instrument ID : Konelab

11/11/2025 10:23

Test Ammonia-N

Accepted

11/11/2025 10:23

Factor

5.373

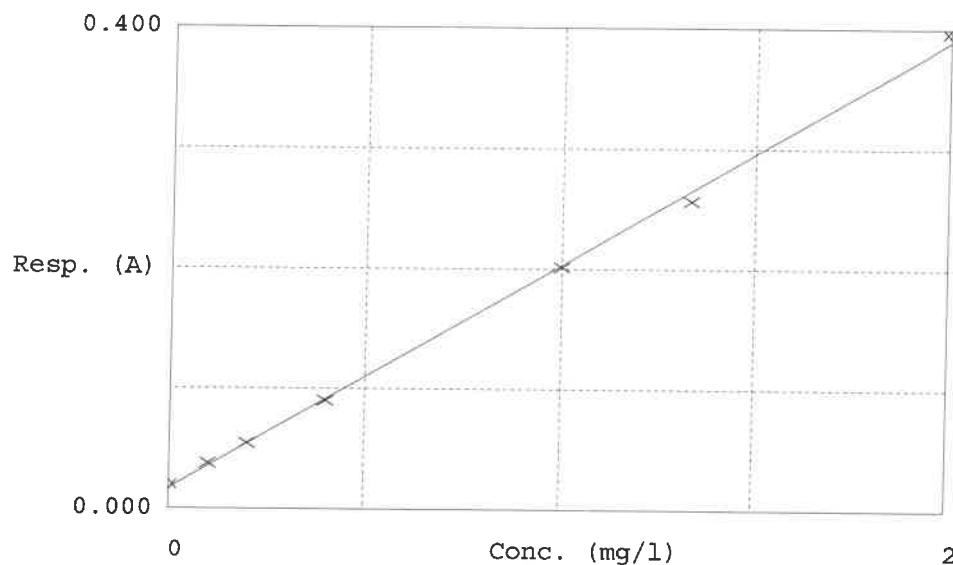
Bias

0.017

Coeff. of det.

0.998745

Errors



	Calibrator	Response	Calc. con.	Conc.	Errors
1	0.00PPM	0.020	0.0156	0.0000	-
2	NH3-2PPM	0.038	0.1113	0.1000	11.3
3	NH3-2PPM	0.055	0.2016	0.2000	0.8
4	NH3-2PPM	0.090	0.3916	0.4000	-2.1
5	NH3-2PPM	0.201	0.9896	1.0000	-1.0
6	NH3-2PPM	0.256	1.2858	1.3333	-1.1
7	NH3-2PPM	0.396	2.0378	2.0000	1.9

11/11/2025
RM

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

SDG No : N/A

Start Digest Date: 11/06/2025 Time : 08:40 Temp : 150 °C

Matrix : WATER

End Digest Date: 11/06/2025 Time : 09:40 Temp : 160 °C

Pipette ID : WC

11/06/2025 10:15 150 °C
11/06/2025 11:15 160 °C

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: RM

Weigh By : N/A

pH Meter ID : N/A

Supervisor Signature:

Standard Name	MLS USED	STD REF. # FROM LOG
LCSW	1.0ML	WP115088
MS/MSD SPIKE SOL.	1.0ML	WP115087
PBW	50.0ML	W3112
RL CHECK	0.1ML	WP115087
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
N/A	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

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

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
11/06/2025 11:30	RM (WC)	RM (WC)
	Preparation Group	Analysis Group

Lab Sample ID	Client Sample ID	Initial Vol (ml)	Final Vol (ml)	pH	Sulfide	Oxidizing	Nitrate/ Nitrite	Comment	Prep Pos
PB170403BL	PBW403	50	50	<2	N/A	Negative	N/A	AFTER ADDING 6N NAOH PH IS 9.5	N/A
PB170403BS	LCS403	50	50	<2	N/A	Negative	N/A	AFTER ADDING 6N NAOH PH IS 9.5	N/A
Q3537-03DUP	MW-17-PURGE-WATERDUP	50	50	<2	N/A	Negative	N/A	AFTER ADDING 6N NAOH PH IS 9.5	N/A
Q3537-03MS	MW-17-PURGE-WATERMS	50	50	<2	N/A	Negative	N/A	AFTER ADDING 6N NAOH PH IS 9.5	N/A
Q3537-03MSD	MW-17-PURGE-WATERMSD	50	50	<2	N/A	Negative	N/A	AFTER ADDING 6N NAOH PH IS 9.5	N/A
Q3537-03	MW-17-PURGE-WATER	50	50	<2	N/A	Negative	N/A	AFTER ADDING 6N NAOH PH IS 9.5	N/A
Q3541-01	N48969	50	50	<2	N/A	Negative	N/A	AFTER ADDING 6N NAOH PH IS 9.5	N/A
Q3551-04	MANHOLE	50	50	<2	N/A	Negative	N/A	AFTER ADDING 6N NAOH PH IS 9.5	N/A
Q3554-05	INFLUENT	1	50	<2	N/A	Negative	N/A	AFTER ADDING 6N NAOH PH IS 9.5	N/A

WORKLIST(Hardcopy Internal Chain)

WorkList Name : AMMONIA-11-04 WorkList ID : 192914 Department : Distillation Date : 11-05-2025 15:31:14

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q3537-03	MW-17-PURGE-WATER	Water	Ammonia	Conc H2SO4 to pH < 2	PSEG03	D41	11/04/2025	SM4500-NH3
Q3541-01	N48969	Water	Ammonia	Conc H2SO4 to pH < 2	PSEG03	D41	11/04/2025	SM4500-NH3
Q3551-04	MANHOLE	Water	Ammonia	Conc H2SO4 to pH < 2	SPEC01	D41	11/05/2025	SM4500-NH3
Q3554-05	INFLUENT	Water	Ammonia	Conc H2SO4 to pH < 2	HOLL01	D41	11/05/2025	SM4500-NH3

Date/Time 11/06/2025 08:00
Raw Sample Received by: RM (WC)
Raw Sample Relinquished by: JM (WC)

Date/Time 11/06/2025 11:00
Raw Sample Received by: JM (WC)
Raw Sample Relinquished by: RM (WC)

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

SDG No : N/A

Start Digest Date: 11/07/2025 Time : 09:40 Temp : 94 °C

Matrix : WATER

End Digest Date: 11/07/2025 Time : 10:45 Temp : 96 °C

Pipette ID : WC

Balance ID : N/A

Hood ID : HOOD#3

Digestion tube ID : M5595

Block Thermometer ID : WC-BLOCK#1

Block ID : WC S-1, WC S-2

Filter paper ID : 400213

Prep Technician Signature: 12

Weigh By : N/A

pH Meter ID : N/A

Supervisor Signature: 2P

Standard Name	MLS USED	STD REF. # FROM LOG
LCSW	0.5ML	WP115559
MS/MSD SPIKE SOL.	0.5ML	WP115558
PBW	50.ML	W3112
RL CHECK	50.0ML	WP115568
LOQ	50.ML	WP115570

Chemical Used	ML/SAMPLE USED	Lot Number
11N H2SO4	1ML	WP115089
AMMONIUM PERSULFATE	0.4g	W3035
pH Paper 0-14	N/A	W3241
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

LAB SAMPLE ID	CLIENT SAMPLE ID	Wt(g)/Vol(ml)	Comment
CAL1	CAL1	50.0ML	WP115560
CAL2	CAL2	50.0ML	WP115561
CAL3	CAL3	50.0ML	WP115562
CAL4	CAL4	50.0ML	WP115563
CAL5	CAL5	50.0ML	WP115564
CAL6	CAL6	50.0ML	WP115565
ICV	ICV	50.0ML	WP115566
ICB	ICB	50.0ML	W3112
CCV	CCV	50.0ML	WP115567
CCB	CCB	50.0ML	W3112

Extraction Conformance/Non-Conformance Comments:

LOD; WP115571; 50ML

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

11/7/25

12

Lab Sample ID	Client Sample ID	Initial Vol (ml)	Final Vol (ml)	pH	Sulfide	Oxidizing	Nitrate/ Nitrite	Comment	Prep Pos
PB170438BL	PBW438	50	50	<2	N/A	N/A	N/A	N/A	N/A
PB170438BS	LCS438	50	50	<2	N/A	N/A	N/A	N/A	N/A
Q3530-07	LOD-MDL-WATER-01-QT4-2025	50	50	<2	N/A	N/A	N/A	N/A	N/A
Q3530-08	LOQ-WATER-02-QT4-2025	50	50	<2	N/A	N/A	N/A	N/A	N/A
Q3554-01	EFFLUENT	50	50	<2	N/A	N/A	N/A	N/A	N/A
Q3554-01DUP	EFFLUENTDUP	50	50	<2	N/A	N/A	N/A	N/A	N/A
Q3554-01MS	EFFLUENTMS	50	50	<2	N/A	N/A	N/A	N/A	N/A
Q3554-01MSD	EFFLUENTMSD	50	50	<2	N/A	N/A	N/A	N/A	N/A

WORKLIST(Hardcopy Internal Chain)

WorkList Name : TotalPhos-110725

WorkList ID : 192968

Department : Distillation

Date : 11-07-2025 09:11:46

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q3530-07	LOD-MDL-WATER-01-QT4-202	Water	Phosphorus-Total	Conc H2SO4 to pH < 2	ALLI03	QA Of	11/03/2025	365.3
Q3530-08	LOQ-WATER-02-QT4-2025	Water	Phosphorus-Total	Conc H2SO4 to pH < 2	ALLI03	QA Of	11/03/2025	365.3
Q3554-01	EFFLUENT	Water	Phosphorus-Total	Conc H2SO4 to pH < 2	HOLL01	D41	11/05/2025	365.3

Date/Time 11/07/25 09:15
 Raw Sample Received by: 12(207)
 Raw Sample Relinquished by: 28(207)

Date/Time 11/07/25 10:00
 Raw Sample Received by: 28(207)
 Raw Sample Relinquished by: 12(207)

Instrument ID: DO METER

Daily Analysis Runlog For Sequence/QC Batch ID # LB137795

Review By	rubina	Review On	11/10/2025 3:42:13 PM
Supervise By	Iwona	Supervise On	11/10/2025 3:45:19 PM
SubDirectory	LB137795	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	WP115467, W3149, WP115342, W3103, W3109, W3248, WP115469, WP115468, WP113878		

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	LB137795BL	LB137795BL	MB	11/05/25 16:40		rubina	OK
2	LB137795BS	LB137795BS	LCS	11/05/25 16:40		rubina	OK
3	Q3547-02	Comp	SAM	11/05/25 16:40	Due to bad matrix difference between highest and lowest results is >30% for	rubina	OK
4	Q3547-02DUP	CompDUP	DUP	11/05/25 16:40	Due to bad matrix difference between highest and lowest results is >30% for	rubina	OK
5	Q3550-01	DRAIN-WATER-TANK	SAM	11/05/25 16:40		rubina	OK
6	Q3554-01	EFFLUENT	SAM	11/05/25 16:40	Due to bad matrix difference between highest and lowest results is >30% for	rubina	OK
7	Q3554-05	INFLUENT	SAM	11/05/25 16:40		rubina	OK

Instrument ID: KONELAB

Daily Analysis Runlog For Sequence/QC Batch ID # LB137801

Review By	rubina	Review On	11/7/2025 8:42:27 AM
Supervise By	Iwona	Supervise On	11/7/2025 8:54:01 AM
SubDirectory	LB137801	Test	Ammonia
STD. NAME	STD REF.#		
ICAL Standard	WP115501		
ICV Standard	WP115503		
CCV Standard	WP115502		
ICSA Standard	N/A		
CRI Standard	N/A		
LCS Standard	WP115088		
Chk Standard	WP115290,WP114133,WP113929,WP114132		

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	0.0PPM	0.0PPM	CAL1	11/06/25 12:06		rubina	OK
2	0.1PPM	0.1PPM	CAL2	11/06/25 12:06		rubina	OK
3	0.2PPM	0.2PPM	CAL3	11/06/25 12:06		rubina	OK
4	0.4PPM	0.4PPM	CAL4	11/06/25 12:06		rubina	OK
5	1.0PPM	1.0PPM	CAL5	11/06/25 12:06		rubina	OK
6	1.3PPM	1.3PPM	CAL6	11/06/25 12:06		rubina	OK
7	2.0PPM	2.0PPM	CAL7	11/06/25 12:06		rubina	OK
8	ICV1	ICV1	ICV	11/06/25 12:48		rubina	OK
9	ICB1	ICB1	ICB	11/06/25 12:48		rubina	OK
10	CCV1	CCV1	CCV	11/06/25 12:48		rubina	OK
11	CCB1	CCB1	CCB	11/06/25 12:48		rubina	OK
12	RL	RL	LOQ	11/06/25 12:48		rubina	OK
13	PB170403BL	PB170403BL	MB	11/06/25 12:59		rubina	OK
14	PB170403BS	PB170403BS	LCS	11/06/25 12:59		rubina	OK
15	Q3537-03	MW-17-PURGE-WAT	SAM	11/06/25 12:59		rubina	OK
16	Q3537-03DUP	MW-17-PURGE-WAT	DUP	11/06/25 12:59		rubina	OK
17	Q3537-03MS	MW-17-PURGE-WAT	MS	11/06/25 12:59		rubina	OK
18	Q3537-03MSD	MW-17-PURGE-WAT	MSD	11/06/25 12:59		rubina	OK

Instrument ID: KONELAB

Daily Analysis Runlog For Sequence/QC Batch ID # LB137801

Review By	rubina	Review On	11/7/2025 8:42:27 AM
Supervise By	Iwona	Supervise On	11/7/2025 8:54:01 AM
SubDirectory	LB137801	Test	Ammonia
STD. NAME	STD REF.#		
ICAL Standard	WP115501		
ICV Standard	WP115503		
CCV Standard	WP115502		
ICSA Standard	N/A		
CRI Standard	N/A		
LCS Standard	WP115088		
Chk Standard	WP115290,WP114133,WP113929,WP114132		

19	Q3541-01	N48969	SAM	11/06/25 13:08		rubina	OK
20	Q3554-05	INFLUENT	SAM	11/06/25 13:08	NH3 is high, need dilution	rubina	Dilution
21	Q3551-04	MANHOLE	SAM	11/06/25 13:08	NH3 is high, need dilution	rubina	Dilution
22	CCV2	CCV2	CCV	11/06/25 13:08		rubina	OK
23	CCB2	CCB2	CCB	11/06/25 13:08		rubina	OK
24	Q3551-04DL	MANHOLEDL	SAM	11/06/25 13:53	5X For NH3	rubina	Confirms
25	Q3554-05DL	INFLUENTDL	SAM	11/06/25 13:53	5X For NH3	rubina	Confirms
26	CCV3	CCV3	CCV	11/06/25 13:53		rubina	OK
27	CCB3	CCB3	CCB	11/06/25 13:53		rubina	OK

Instrument ID: WC SC-3

Daily Analysis Runlog For Sequence/QC Batch ID # LB137812

Review By	jignesh	Review On	11/7/2025 9:56:13 AM
Supervise By	Iwona	Supervise On	11/7/2025 1:14:19 PM
SubDirectory	LB137812	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	LB137812BL	LB137812BL	MB	11/07/25 10:00		jignesh	OK
2	LB137812BS	LB137812BS	LCS	11/07/25 10:00	55 mg W3186 + 100ML W3112	jignesh	OK
3	Q3547-02	Comp	SAM	11/07/25 10:00		jignesh	OK
4	Q3550-01	DRAIN-WATER-TANK	SAM	11/07/25 10:00		jignesh	OK
5	Q3551-04	MANHOLE	SAM	11/07/25 10:00		jignesh	OK
6	Q3551-04DUP	MANHOLEDUP	DUP	11/07/25 10:00		jignesh	OK
7	Q3554-01	EFFLUENT	SAM	11/07/25 10:00		jignesh	OK
8	Q3554-04	AERATION	SAM	11/07/25 10:00		jignesh	OK
9	Q3560-01	SY-10D	SAM	11/07/25 10:00		jignesh	OK
10	Q3560-03	SY-10S	SAM	11/07/25 10:00		jignesh	OK
11	Q3560-05	SY-10I	SAM	11/07/25 10:00		jignesh	OK
12	Q3560-07	SY-12I	SAM	11/07/25 10:00		jignesh	OK
13	Q3560-09	SY-12D	SAM	11/07/25 10:00		jignesh	OK

Instrument ID: WC SC-3

Daily Analysis Runlog For Sequence/QC Batch ID # LB137814

Review By	jignesh	Review On	11/7/2025 11:34:19 AM
Supervise By	Iwona	Supervise On	11/7/2025 1:13:12 PM
SubDirectory	LB137814	Test	Oil and Grease
STD. NAME	STD REF.#		
ICAL Standard	N/A		
ICV Standard	N/A		
CCV Standard	N/A		
ICSA Standard	N/A		
CRI Standard	N/A		
LCS Standard	N/A		
Chk Standard	W3240,M6069,EP2655,WP115016,N/A,N/A,WP115017,N/A,WP115018		

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	LB137814BL	LB137814BL	MB	11/07/25 10:30		jignesh	OK
2	LB137814BS	LB137814BS	LCS	11/07/25 10:30		jignesh	OK
3	Q3442-01	SW-1	SAM	11/07/25 10:30		jignesh	OK
4	Q3498-01	GREASE	SAM	11/07/25 10:30		jignesh	OK
5	Q3507-01	SW-1	SAM	11/07/25 10:30		jignesh	OK
6	Q3508-01	SW-1	SAM	11/07/25 10:30		jignesh	OK
7	Q3510-01	OUTFALL-002	SAM	11/07/25 10:30		jignesh	OK
8	Q3511-01	OUTFALL-001	SAM	11/07/25 10:30		jignesh	OK
9	Q3511-02	OUTFALL-002	SAM	11/07/25 10:30		jignesh	OK
10	Q3530-07	LOD-MDL-WATER-01	SAM	11/07/25 10:30	add 0.25 WP115017	jignesh	OK
11	Q3530-08	LOQ-WATER-02-QT4	SAM	11/07/25 10:30	ADD 0.625 WP115018	jignesh	OK
12	Q3534-01	MW-6	SAM	11/07/25 10:30		jignesh	OK
13	Q3534-02	MW-1	SAM	11/07/25 10:30		jignesh	OK
14	Q3534-03	MW-11	SAM	11/07/25 10:30		jignesh	OK
15	Q3534-04	MW-5	SAM	11/07/25 10:30		jignesh	OK
16	Q3534-05	MW-EB-1	SAM	11/07/25 10:30		jignesh	OK
17	Q3534-06	MW-EB-2	SAM	11/07/25 10:30		jignesh	OK
18	Q3534-07	MW-EB-3	SAM	11/07/25 10:30		jignesh	OK

Instrument ID: WC SC-3

Daily Analysis Runlog For Sequence/QC Batch ID # LB137814

Review By	jignesh	Review On	11/7/2025 11:34:19 AM
Supervise By	Iwona	Supervise On	11/7/2025 1:13:12 PM
SubDirectory	LB137814	Test	Oil and Grease
STD. NAME	STD REF.#		
ICAL Standard	N/A		
ICV Standard	N/A		
CCV Standard	N/A		
ICSA Standard	N/A		
CRI Standard	N/A		
LCS Standard	N/A		
Chk Standard	W3240,M6069,EP2655,WP115016,N/A,N/A,WP115017,N/A,WP115018		

19	Q3534-09	FB-1	SAM	11/07/25 10:30		jignesh	OK
20	Q3534-10	EB-1	SAM	11/07/25 10:30		jignesh	OK
21	Q3551-01	MANHOLE	SAM	11/07/25 10:30		jignesh	OK
22	Q3551-02	Q3551-01MS	MS	11/07/25 10:30		jignesh	OK
23	Q3551-03	Q3551-01MSD	MSD	11/07/25 10:30		jignesh	OK
24	Q3552-01	MW-4	SAM	11/07/25 10:30		jignesh	OK
25	Q3552-02	MW-8	SAM	11/07/25 10:30		jignesh	OK
26	Q3552-03	MW-9	SAM	11/07/25 10:30		jignesh	OK
27	Q3552-04	MW-10	SAM	11/07/25 10:30		jignesh	OK
28	Q3552-05	MW-3	SAM	11/07/25 10:30		jignesh	OK
29	Q3554-01	EFFLUENT	SAM	11/07/25 10:30		jignesh	OK
30	Q3554-02	Q3554-01MS	MS	11/07/25 10:30		jignesh	OK
31	Q3554-03	Q3554-01MSD	MSD	11/07/25 10:30		jignesh	OK

Instrument ID: SPECTROPHOTOMETER-1

Daily Analysis Runlog For Sequence/QC Batch ID # LB137825

Review By	Iwona	Review On	11/10/2025 4:02:56 PM
Supervise By	jignesh	Supervise On	11/10/2025 4:06:39 PM
SubDirectory	LB137825	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	WP115565,WP115564,WP115563,WP115562,WP115561,WP115560,WP115567,WP115340,WP115573,WP113378,V		

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	CAL1	CAL1	CAL	11/07/25 11:30		Iwona	OK
2	CAL2	CAL2	CAL	11/07/25 11:30		Iwona	OK
3	CAL3	CAL3	CAL	11/07/25 11:31		Iwona	OK
4	CAL4	CAL4	CAL	11/07/25 11:31		Iwona	OK
5	CAL5	CAL5	CAL	11/07/25 11:32		Iwona	OK
6	CAL6	CAL6	CAL	11/07/25 11:32		Iwona	OK
7	ICV	ICV	ICV	11/07/25 11:33		Iwona	OK
8	ICB	ICB	ICB	11/07/25 11:33		Iwona	OK
9	CCV1	CCV1	CCV	11/07/25 11:34		Iwona	OK
10	CCB1	CCB1	CCB	11/07/25 11:34		Iwona	OK
11	RL Check	RL Check	RL	11/07/25 11:35		Iwona	OK
12	LB137825BL	LB137825BL	MB	11/07/25 11:35		Iwona	OK
13	LB137825BS	LB137825BS	LCS	11/07/25 11:36		Iwona	OK
14	Q3530-07	LOD-MDL-WATER-01	SAM	11/07/25 11:36		Iwona	OK
15	Q3530-08	LOQ-WATER-02-QT4	SAM	11/07/25 11:37		Iwona	OK
16	Q3554-01	EFFLUENT	SAM	11/07/25 11:37		Iwona	OK
17	Q3554-01DUP	EFFLUENTDUP	DUP	11/07/25 11:38		Iwona	OK
18	Q3554-01MS	EFFLUENTMS	MS	11/07/25 11:38		Iwona	OK

Instrument ID: SPECTROPHOTOMETER-1

Daily Analysis Runlog For Sequence/QC Batch ID # LB137825

Review By	Iwona	Review On	11/10/2025 4:02:56 PM
Supervise By	jignesh	Supervise On	11/10/2025 4:06:39 PM
SubDirectory	LB137825	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	WP115565,WP115564,WP115563,WP115562,WP115561,WP115560,WP115567,WP115340,WP115573,WP113378,V		

19	Q3554-01MSD	EFFLUENTMSD	MSD	11/07/25 11:39		Iwona	OK
20	CCV2	CCV2	CCV	11/07/25 11:39		Iwona	OK
21	CCB2	CCB2	CCB	11/07/25 11:40		Iwona	OK

Instrument ID: SPECTROPHOTOMETER-1

Daily Analysis Runlog For Sequence/QC Batch ID # LB137826

Review By	Iwona	Review On	11/10/2025 4:04:21 PM
Supervise By	jignesh	Supervise On	11/10/2025 4:06:19 PM
SubDirectory	LB137826	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	WP115565,WP115564,WP115563,WP115562,WP115561,WP115560,WP115567,WP115340,WP115573,WP113378,V		

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	CAL1	CAL1	CAL	11/07/25 12:10		Iwona	OK
2	CAL2	CAL2	CAL	11/07/25 12:10		Iwona	OK
3	CAL3	CAL3	CAL	11/07/25 12:11		Iwona	OK
4	CAL4	CAL4	CAL	11/07/25 12:11		Iwona	OK
5	CAL5	CAL5	CAL	11/07/25 12:12		Iwona	OK
6	CAL6	CAL6	CAL	11/07/25 12:12		Iwona	OK
7	ICV	ICV	ICV	11/07/25 12:13		Iwona	OK
8	ICB	ICB	ICB	11/07/25 12:13		Iwona	OK
9	CCV1	CCV1	CCV	11/07/25 12:14		Iwona	OK
10	CCB1	CCB1	CCB	11/07/25 12:14		Iwona	OK
11	RL Check	RL Check	RL	11/07/25 12:15		Iwona	OK
12	PB170438BL	PB170438BL	MB	11/07/25 12:15		Iwona	OK
13	PB170438BS	PB170438BS	LCS	11/07/25 12:16		Iwona	OK
14	Q3530-07	LOD-MDL-WATER-01	SAM	11/07/25 12:16		Iwona	OK
15	Q3530-08	LOQ-WATER-02-QT4	SAM	11/07/25 12:17		Iwona	OK
16	Q3554-01	EFFLUENT	SAM	11/07/25 12:17		Iwona	OK
17	Q3554-01DUP	EFFLUENTDUP	DUP	11/07/25 12:18		Iwona	OK
18	Q3554-01MS	EFFLUENTMS	MS	11/07/25 12:18		Iwona	OK

Instrument ID: SPECTROPHOTOMETER-1

Daily Analysis Runlog For Sequence/QC Batch ID # LB137826

Review By	Iwona	Review On	11/10/2025 4:04:21 PM
Supervise By	jignesh	Supervise On	11/10/2025 4:06:19 PM
SubDirectory	LB137826	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	WP115565,WP115564,WP115563,WP115562,WP115561,WP115560,WP115567,WP115340,WP115573,WP113378,V		

19	Q3554-01MSD	EFFLUENTMSD	MSD	11/07/25 12:19		Iwona	OK
20	CCV2	CCV2	CCV	11/07/25 12:19		Iwona	OK
21	CCB2	CCB2	CCB	11/07/25 12:20		Iwona	OK

Instrument ID: KONELAB

Daily Analysis Runlog For Sequence/QC Batch ID # LB137852

Review By	Review On
Supervise By	Supervise On
SubDirectory	LB137852
Test	Ammonia

STD. NAME	STD REF.#
ICAL Standard	WP115598
ICV Standard	WP115600
CCV Standard	WP115599
ICSA Standard	N/A
CRI Standard	N/A
LCS Standard	WP115589
Chk Standard	WP115290,WP114133,WP113929,WP114132,WP115590

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	0.0PPM	0.0PPM	CAL1	11/11/25 10:21		rubina	OK
2	0.1PPM	0.1PPM	CAL2	11/11/25 10:21		rubina	OK
3	0.2PPM	0.2PPM	CAL3	11/11/25 10:21		rubina	OK
4	0.4PPM	0.4PPM	CAL4	11/11/25 10:21		rubina	OK
5	1.0PPM	1.0PPM	CAL5	11/11/25 10:21		rubina	OK
6	1.3PPM	1.3PPM	CAL6	11/11/25 10:21		rubina	OK
7	2.0PPM	2.0PPM	CAL7	11/11/25 10:21		rubina	OK
8	ICV1	ICV1	ICV	11/11/25 11:35		rubina	OK
9	ICB1	ICB1	ICB	11/11/25 11:35		rubina	OK
10	CCV1	CCV1	CCV	11/11/25 11:35		rubina	OK
11	CCB1	CCB1	CCB	11/11/25 11:35		rubina	OK
12	RL	RL	LOQ	11/11/25 11:35		rubina	OK
13	PB170466BL	PB170466BL	MB	11/11/25 11:45		rubina	OK
14	PB170466BS	PB170466BS	LCS	11/11/25 11:46		rubina	OK
15	Q3530-08	LOQ-WATER-02-QT4	LOQ	11/11/25 11:46		rubina	OK
16	Q3554-01	EFFLUENT	SAM	11/11/25 11:46	NH3 is high, need dilution	rubina	Dilution
17	Q3560-01	SY-10D	SAM	11/11/25 11:46	NH3 is high, need dilution	rubina	Dilution
18	Q3560-01DUP	SY-10DDUP	DUP	11/11/25 11:56	NH3 is high, need dilution	rubina	Dilution

Instrument ID: KONELAB

Daily Analysis Runlog For Sequence/QC Batch ID # LB137852

Review By	Review On
Supervise By	Supervise On
SubDirectory LB137852	Test Ammonia
STD. NAME	STD REF.#
ICAL Standard	WP115598
ICV Standard	WP115600
CCV Standard	WP115599
ICSA Standard	N/A
CRI Standard	N/A
LCS Standard	WP115589
Chk Standard	WP115290,WP114133,WP113929,WP114132,WP115590

19	Q3560-01MS	SY-10DMS	MS	11/11/25 11:56		rubina	OK
20	Q3560-01MSD	SY-10DMSD	MSD	11/11/25 11:56		rubina	OK
21	CCV2	CCV2	CCV	11/11/25 11:56		rubina	OK
22	CCB2	CCB2	CCB	11/11/25 11:56		rubina	OK
23	Q3560-03	SY-10S	SAM	11/11/25 11:56		rubina	OK
24	Q3560-05	SY-10I	SAM	11/11/25 11:56		rubina	OK
25	Q3560-07	SY-12I	SAM	11/11/25 12:07	NH3 is high, need dilution	rubina	Dilution
26	Q3560-09	SY-12D	SAM	11/11/25 12:07		rubina	OK
27	Q3566-01	WATER-TREATMENT	SAM	11/11/25 12:07		rubina	OK
28	Q3575-01	001 Willets Pt Blvd (N	SAM	11/11/25 12:07	NH3 is high, need dilution	rubina	Dilution
29	Q3575-02	002 35th Ave (Nov)	SAM	11/11/25 12:07	NH3 is high, need dilution	rubina	Dilution
30	PB170467BL	PB170467BL	MB	11/11/25 12:07		rubina	OK
31	PB170467BS	PB170467BS	LCS	11/11/25 12:07		rubina	OK
32	CCV3	CCV3	CCV	11/11/25 12:18		rubina	OK
33	CCB3	CCB3	CCB	11/11/25 12:18		rubina	OK
34	Q3530-02	LOQ-SOIL-02-QT4-20	LOQ	11/11/25 12:18		rubina	OK
35	Q3483-07	HW1025-PT-NUT-SO	SAM	11/11/25 12:18	NH3 is high, need dilution	rubina	Dilution
36	CCV4	CCV4	CCV	11/11/25 12:28		rubina	OK
37	CCB4	CCB4	CCB	11/11/25 12:28		rubina	OK
38	Q3554-01DL	EFFLUENTDL	SAM	11/11/25 13:06	10X For NH3	rubina	Confirms

Instrument ID: KONELAB

Daily Analysis Runlog For Sequence/QC Batch ID # LB137852

Review By	Review On
Supervise By	Supervise On
SubDirectory	LB137852
Test	Ammonia
STD. NAME	STD REF.#
ICAL Standard	WP115598
ICV Standard	WP115600
CCV Standard	WP115599
ICSA Standard	N/A
CRI Standard	N/A
LCS Standard	WP115589
Chk Standard	WP115290,WP114133,WP113929,WP114132,WP115590

39	Q3560-01DL	SY-10DDL	SAM	11/11/25 13:06	10X For NH3	rubina	Confirms
40	Q3560-01DUPDL	SY-10DDUPDL	DUP	11/11/25 13:06	10X For NH3	rubina	Confirms
41	Q3560-07DL	SY-12IDL	SAM	11/11/25 13:06	20x For NH3 Still high	rubina	Dilution
42	Q3575-01DL	001 Willets Pt Blvd (N	SAM	11/11/25 13:16	5X For NH3	rubina	Confirms
43	Q3575-02DL	002 35th Ave (Nov)DL	SAM	11/11/25 13:16	5X For NH3	rubina	Confirms
44	Q3483-07DL	HW1025-PT-NUT-SO	SAM	11/11/25 13:16	20x For NH3	rubina	Confirms
45	CCV5	CCV5	CCV	11/11/25 13:22		rubina	OK
46	CCB5	CCB5	CCB	11/11/25 13:22		rubina	OK
47	Q3530-07	LOD-MDL-WATER-01	SAM	11/11/25 13:46		rubina	OK
48	Q3530-01	LOD-MDL-SOIL-01-Q	SAM	11/11/25 13:46		rubina	OK
49	Q3560-07DL2	SY-12IDL2	SAM	11/11/25 13:46	40X For NH3	rubina	Confirms
50	CCV6	CCV6	CCV	11/11/25 13:46		rubina	OK
51	CCB6	CCB6	CCB	11/11/25 13:46		rubina	OK

Prep Standard - Chemical Standard Summary

Order ID : Q3554

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

Prepbatch ID : PB170403,PB170438,PB170466,

Sequence ID/Qc Batch ID: LB137795,LB137801,LB137812,LB137814,LB137825,LB137826,LB137852,

Standard ID :

EP2655,WP113112,WP113113,WP113378,WP113878,WP113885,WP113886,WP113887,WP113929,WP114132,WP114133,WP115016,WP115017,WP115018,WP115085,WP115086,WP115087,WP115088,WP115089,WP115290,WP115336,WP115340,WP115342,WP115467,WP115468,WP115469,WP115501,WP115502,WP115503,WP115558,WP115559,WP115560,WP115561,WP115562,WP115563,WP115564,WP115565,WP115566,WP115567,WP115568,WP115569,WP115570,WP115571,WP115572,WP115573,WP115585,WP115588,WP115589,WP115590,WP115598,WP115599,WP115600,

Chemical ID :

E3875,E3972,M6069,M6151,M6186,W2306,W2650,W2653,W2654,W2663,W2664,W2666,W2788,W2817,W2871,W3009,W3035,W3082,W3103,W3109,W3112,W3113,W3132,W3133,W3139,W3149,W3155,W3195,W3196,W3201,W3202,W3206,W3222,W3240,W3241,W3243,W3247,W3248,W3252,



<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3923	Baked Sodium Sulfate	EP2655	10/24/2025	01/28/2026	RUPESHKUMAR SHAH	Extraction_SCALE_2 (EX-SC-2)	None	Riteshkumar Patel 10/24/2025
<u>FROM</u> 4000.00000gram of E3875 = Final Quantity: 4000.000 gram								

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
648	Ammonium molybdate solution	WP113112	05/16/2025	11/16/2025	Iwona Zarych	WETCHEM_SCALE_5 (WC SC-5)	None	Jignesh Parikh 05/16/2025
<u>FROM</u>	20.00000gram of W2664 + 480.00000ml of W3112 = Final Quantity: 500.000 ml							



<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
588	Potassium Antimonyl Tartrate	WP113113	05/16/2025	11/16/2025	Iwona Zarych	WETCHEM_SCALE_5 (WCS-5)	None	Jignesh Parikh 05/16/2025
<u>FROM</u>	1.37150gram of W2306 + 500.00000ml of W3112 = Final Quantity: 500.000 ml							

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
1213	Phenolphthalein indicator	WP113378	06/04/2025	12/04/2025	Iwona Zarych	WETCHEM_S CALE_5 (WC SC-5)	None	Jignesh Parikh 06/05/2025
<u>FROM</u> 0.10000gram of W2650 + 50.00000ml of W2788 + 50.00000ml of W3112 = Final Quantity: 100.000 ml								

Wet Chemistry STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
1571	Sodium hydroxide, 1N	WP113878	07/09/2025	12/31/2025	Iwona Zarych	WETCHEM_SCALE_7 (WC SC-6)	None	Jignesh Parikh 07/09/2025

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

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
1796	NaOH, 0.1N	WP113885	07/10/2025	12/31/2025	Rubina Mughal	WETCHEM_SCALE_8 (WC SC-7)	None	Iwona Zarych 07/10/2025

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



<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
1494	BORATE BUFFER	WP113886	07/10/2025	12/31/2025	Rubina Mughal	WETCHEM_SCALE_8 (WCS-7)	None	Iwona Zarych
FROM 0.90250L of W3112 + 9.50000gram of W3201 + 88.00000ml of WP113885 = Final Quantity: 1.000 L								

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
1471	NaOH Solution, 6N	WP113887	07/10/2025	12/31/2025	Rubina Mughal	WETCHEM_S CALE_8 (WC SC-7)	None	Iwona Zarych 07/10/2025
<u>FROM</u> 240.00000gram of W3113 + 760.00000ml of W3112 = Final Quantity: 1000.000 ml								



<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
290	Phenol reagent for Ammonia	WP113929	07/14/2025	12/31/2025	Rubina Mughal	WETCHEM_SCALE_8 (WC SC-7)	None	Iwona Zarych 07/15/2025
<u>FROM</u> 3.20000gram of W3113 + 8.30000gram of W2663 + 88.80000ml of W3112 = Final Quantity: 100.000 ml								

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
635	EDTA BUFFER FOR AMMONIA	WP114132	07/31/2025	12/31/2025	Rubina Mughal	WETCHEM_SCALE_8 (WC-7)	None	Iwona Zarych 07/31/2025
<u>FROM</u> 5.50000gram of W3113 + 50.00000gram of W3132 + 950.00000ml of W3112 = Final Quantity: 1000.000 ml								

Wet Chemistry STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
289	Sodium Hypochlorite for Ammonia	WP114133	07/31/2025	12/31/2025	Rubina Mughal	None	None	Iwona Zarych
								08/04/2025

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

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
229	1:1 HCL	WP115016	10/02/2025	02/17/2026	Jignesh Parikh	None	None	Iwona Zarych
								10/02/2025

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



<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
2470	1664A SPIKING SOLN	WP115017	10/02/2025	04/02/2026	Jignesh Parikh	WETCHEM_SCALE_7 (WCS-6)	None	Iwona Zarych 10/02/2025
<u>FROM</u>	1000.00000ml of E3972 + 4.00000gram of W2817 + 4.00000gram of W2871 = Final Quantity: 1000.000 ml							

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3374	1664A QCS spiking solution-SS	WP115018	10/02/2025	04/02/2026	Jignesh Parikh	WETCHEM_SCALE_7 (WC SC-6)	None	Iwona Zarych 10/02/2025
<u>FROM</u>	1000.00000ml of E3972 + 4.00000gram of W3009 + 4.00000gram of W3082 = Final Quantity: 1000.000 ml							



<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
153	Ammonia Stock Std. (1000 ppm)	WP115085	10/08/2025	04/08/2026	Rubina Mughal	WETCHEM_SCALE_8 (WC SC-7)	None	Iwona Zarych 10/08/2025
<u>FROM</u> 3.81900gram of W3196 + 996.18100ml of W3112 = Final Quantity: 1000.000 ml								

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
1895	Ammonia Stock Std, 1000PPM-SS	WP115086	10/08/2025	04/08/2026	Rubina Mughal	WETCHEM_S CALE_8 (WC SC-7)	None	Iwona Zarych 10/08/2025
<u>FROM</u>	3.81900gram of W3195 + 996.18100ml of W3112 = Final Quantity: 1000.000 ml							



<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
1322	Ammonia Intermediate Std, 50PPM	WP115087	10/08/2025	11/08/2025	Rubina Mughal	None	WETCHEM_PIPETTE_3 (WC)	Iwona Zarych 10/08/2025
<u>FROM</u> 95.00000ml of W3112 + 5.00000ml of WP115085 = Final Quantity: 100.000 ml								

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
1639	Ammonia Intermediate Std-Second source, 50PPM	WP115088	10/08/2025	11/08/2025	Rubina Mughal	None	WETCHEM_PIPETTE_3 (WC)	Iwona Zarych 10/08/2025
<u>FROM</u> 95.00000ml of W3112 + 5.00000ml of WP115086 = Final Quantity: 100.000 ml								

Wet Chemistry STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
1211	11 N sulfuric acid	WP115089	10/08/2025	04/08/2026	Rubina Mughal	None	None	Iwona Zarych
								10/08/2025

FROM 306.00000ml of M6186 + 694.00000ml of W3112 = Final Quantity: 1000.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
740	sodium nitroferrocyanide for ammonia	WP115290	10/22/2025	11/22/2025	Rubina Mughal	WETCHEM_SCALE_5 (WC SC-5)	None	Iwona Zarych
								10/24/2025

FROM 0.05000gram of W2666 + 99.95000ml of W3112 = Final Quantity: 100.000 ml

Wet Chemistry STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
1597	0.04 N H2SO4	WP115336	10/27/2025	04/27/2026	Rubina Mughal	None	WETCHEM_FIPETTE_3 (WC)	Jignesh Parikh 10/27/2025

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

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

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



<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
1841	Sulfuric Acid, 1N	WP115342	10/27/2025	04/27/2026	Rubina Mughal	None	WETCHEM_PIPETTE_3	Jignesh Parikh
(WC)								
<u>FROM</u>	2.80000ml of M6186 + 97.20000ml of W3112 = Final Quantity: 100.000 ml							

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
127	BOD Dilution fluid	WP115467	11/05/2025	11/06/2025	Rubina Mughal	None	None	Iwona Zarych
<u>FROM</u> 18.00000L of W3112 + 3.00000PILLOW of W3247 = Final Quantity: 18.000 L								



<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
129	Glutamic acid-glucose mix for BOD	WP115468	11/05/2025	11/06/2025	Rubina Mughal	WETCHEM_SCALE_7 (WCS-6)	None	Iwona Zarych 11/05/2025
<u>FROM</u> 0.15000gram of W2653 + 0.15000gram of W2654 + 1000.00000ml of W3112 = Final Quantity: 1000.000 ml								

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
128	polyseed seed control	WP115469	11/05/2025	11/06/2025	Rubina Mughal	None	None	Iwona Zarych 11/05/2025
<u>FROM</u> 1.00000PILLOW of W3252 + 300.00000ml of WP115467 = Final Quantity: 300.000 ml								



<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
275	Ammonia Calibration Std. (2 ppm)	WP115501	11/06/2025	11/07/2025	Rubina Mughal	None	WETCHEM_PIPETTE_3	Iwona Zarych
(WC) FROM 48.00000ml of W3112 + 2.00000ml of WP115087 = Final Quantity: 50.000 ml								

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
285	Ammonia CCV Std. (1 ppm)	WP115502	11/06/2025	11/07/2025	Rubina Mughal	None	WETCHEM_PIPETTE_3	Iwona Zarych
<u>FROM</u>		(WC)						
49.00000ml of W3112 + 1.00000ml of WP115087 = Final Quantity: 50.000 ml								



<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
286	Ammonia ICV Std. (1 ppm)	WP115503	11/06/2025	11/07/2025	Rubina Mughal	None	WETCHEM_PIPETTE_3 (WC)	Iwona Zarych 11/07/2025
<u>FROM</u> 49.00000ml of W3112 + 1.00000ml of WP115088 = Final Quantity: 50.000 ml								

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
115	Phosphate Stock Std. (50 ppm)	WP115558	11/07/2025	05/07/2026	Iwona Zarych	WETCHEM_SCALE_5 (WC SC-5)	None	Jignesh Parikh 11/10/2025
<u>FROM</u> 0.11000gram of W3206 + 500.00000ml of W3112 = Final Quantity: 500.000 ml								

Wet Chemistry STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
2790	Phosphate Stock std, 50PPM-SS	WP115559	11/07/2025	05/07/2026	Iwona Zarych	WETCHEM_SCALE_5 (WC SC-5)	None	Jignesh Parikh 11/10/2025

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

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
122	calibration std. 0 ppm	WP115560	11/07/2025	11/14/2025	Iwona Zarych	None	None	Jignesh Parikh 11/10/2025

FROM 100.00000ml of W3112 = Final Quantity: 100.000 ml

Wet Chemistry STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
121	calibration std. phosphate 0.05 ppm	WP115561	11/07/2025	11/14/2025	Iwona Zarych	None	None	Jignesh Parikh
								11/10/2025

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

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
120	calibration std. phosphate 0.1 ppm	WP115562	11/07/2025	11/14/2025	Iwona Zarych	None	WETCHEM_FIPETTE_3	Jignesh Parikh
							(WC)	11/10/2025

FROM 99.80000ml of W3112 + 0.20000ml of WP115558 = Final Quantity: 100.000 ml

Wet Chemistry STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
119	calibration std. phosphate 0.3 ppm	WP115563	11/07/2025	11/14/2025	Iwona Zarych	None	WETCHEM_F IPETTE_3 (WC)	Jignesh Parikh 11/10/2025
FROM 99.40000ml of W3112 + 0.60000ml of WP115558 = Final Quantity: 100.000 ml								

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
118	calibration std. phosphate 0.5 ppm	WP115564	11/07/2025	11/14/2025	Iwona Zarych	None	WETCHEM_F IPETTE_3 (WC)	Jignesh Parikh 11/10/2025
FROM 99.00000ml of W3112 + 1.00000ml of WP115558 = Final Quantity: 100.000 ml								

Wet Chemistry STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
117	calibration std. phosphate 1 ppm	WP115565	11/07/2025	11/14/2025	Iwona Zarych	None	WETCHEM_F IPETTE_3 (WC)	Jignesh Parikh 11/10/2025
FROM 98.00000ml of W3112 + 2.00000ml of WP115558 = Final Quantity: 100.000 ml								

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3805	Phosphate ICV-LCS Std	WP115566	11/07/2025	11/14/2025	Iwona Zarych	None	WETCHEM_F IPETTE_3 (WC)	Jignesh Parikh 11/10/2025
FROM 99.00000ml of W3112 + 1.00000ml of WP115559 = Final Quantity: 100.000 ml								

Wet Chemistry STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
124	phosphate CCV std.	WP115567	11/07/2025	11/14/2025	Iwona Zarych	None	WETCHEM_F IPETTE_3 (WC)	Jignesh Parikh 11/10/2025
FROM 99.00000ml of W3112 + 1.00000ml of WP115558 = Final Quantity: 100.000 ml								

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
4212	Phosphate RL CHECK	WP115568	11/07/2025	11/14/2025	Iwona Zarych	None	WETCHEM_F IPETTE_3 (WC)	Jignesh Parikh 11/10/2025
FROM 99.80000ml of W3112 + 0.20000ml of WP115558 = Final Quantity: 100.000 ml								



<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3907	Phosphate MDL-LOD-LOQ spike solution, 5ppm	WP115569	11/07/2025	11/14/2025	Iwona Zarych	None	WETCHEM_PIPETTE_3 (WC)	Jignesh Parikh 11/10/2025
<u>FROM</u>	9.00000ml of W3112 + 1.00000ml of WP115558 = Final Quantity: 10.000 ml							

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3730	Phosphphate LOQ std, 0.05PPM	WP115570	11/07/2025	11/14/2025	Iwona Zarych	None	WETCHEM_PIPETTE_3 (WC)	Jignesh Parikh 11/10/2025
<u>FROM</u> 99.00000ml of W3112 + 1.00000ml of WP115569 = Final Quantity: 100.000 ml								

Wet Chemistry STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3814	Phosphate LOD-MDL Std 0.025ppm	WP115571	11/07/2025	11/14/2025	Iwona Zarych	None	WETCHEM_F IPETTE_3 (WC)	Jignesh Parikh 11/10/2025

FROM 99.50000ml of W3112 + 0.50000ml of WP115569 = Final Quantity: 100.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
590	Ascorbic Acid	WP115572	11/07/2025	11/08/2025	Iwona Zarych	WETCHEM_S CALE_5 (WC SC-5)	None	Jignesh Parikh 11/10/2025

FROM 0.52800gram of W3243 + 30.00000ml of W3112 = Final Quantity: 30.000 ml

Wet Chemistry STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
658	Combined reagent	WP115573	11/07/2025	11/08/2025	Iwona Zarych	None	Glass Pipette-A	Jignesh Parikh 11/10/2025

FROM 15.00000ml of WP113112 + 30.00000ml of WP115572 + 5.00000ml of WP113113 + 50.00000ml of WP115340 = Final Quantity:
100.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
1582	Chloramine T solution, 0.014M	WP115585	11/10/2025	11/11/2025	Rubina Mughal	WETCHEM_S CALE_5 (WC SC-5)	Glass Pipette-A	Iwona Zarych 11/10/2025

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



<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
1322	Ammonia Intermediate Std, 50PPM	WP115588	11/10/2025	12/10/2025	Rubina Mughal	None	WETCHEM_PIPETTE_3 (WC)	Jignesh Parikh 11/11/2025
<u>FROM</u> 95.00000ml of W3112 + 5.00000ml of WP115085 = Final Quantity: 100.000 ml								

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
1639	Ammonia Intermediate Std-Second source, 50PPM	WP115589	11/10/2025	12/10/2025	Rubina Mughal	None	WETCHEM_PIPETTE_3 (WC)	Jignesh Parikh 11/11/2025
<u>FROM</u> 95.00000ml of W3112 + 5.00000ml of WP115086 = Final Quantity: 100.000 ml								



<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3906	Ammonia MDL-LOD-LOQ spiking solution -5ppm	WP115590	11/10/2025	11/11/2025	Rubina Mughal	None	WETCHEM_PIPETTE_3 (WC)	Jignesh Parikh 11/11/2025
<u>FROM</u> 45.00000ml of W3112 + 5.00000ml of WP115588 = Final Quantity: 50.000 ml								

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
275	Ammonia Calibration Std. (2 ppm)	WP115598	11/11/2025	11/12/2025	Rubina Mughal	None	WETCHEM_PIPETTE_3 (WC)	Jignesh Parikh 11/11/2025
<u>FROM</u> 48.00000ml of W3112 + 2.00000ml of WP115588 = Final Quantity: 50.000 ml								



<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
285	Ammonia CCV Std. (1 ppm)	WP115599	11/11/2025	11/12/2025	Rubina Mughal	None	WETCHEM_PIPETTE_3 (WC)	Jignesh Parikh 11/11/2025
FROM 49.00000ml of W3112 + 1.00000ml of WP115588 = Final Quantity: 50.000 ml								

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
286	Ammonia ICV Std. (1 ppm)	WP115600	11/11/2025	11/12/2025	Rubina Mughal	None	WETCHEM_PIPETTE_3 (WC)	Jignesh Parikh 11/11/2025
<u>FROM</u> 49.00000ml of W3112 + 1.00000ml of WP115589 = Final Quantity: 50.000 ml								

CHEMICAL RECEIPT LOG BOOK

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, Instra-Analyzed (cs/6c2.5L)	23D2462010	07/12/2026	08/13/2025 / Sagar	08/06/2025 / Sagar	M6186

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	A1561-500GM / POTASSIUM ANTIMONY TARTRATE TRIHYDRATE, 500G	2GH0057	12/11/2027	12/11/2017 / apatel	12/11/2017 / apatel	W2306

CHEMICAL RECEIPT LOG BOOK

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 / Received By	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

CHEMICAL RECEIPT LOG BOOK

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 / lwona	02/27/2023 / lwona	W3009

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	BDH0214-500G / Ammonium Persulfate Crystal, 500g	MKCR9319	06/30/2028	03/05/2024 / lwona	06/06/2023 / lwona	W3035

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	A12244 / Stearic acid, 98%, 100 g	U23E020	02/26/2029	02/26/2024 / lwona	02/26/2024 / lwona	W3082

CHEMICAL RECEIPT LOG BOOK

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 / lwona	04/22/2024 / lwona	W3103

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	AL04100-4 / Alkaline Iodide Azide, 1 L	1405D67	04/30/2026	05/23/2024 / lwona	05/23/2024 / lwona	W3109

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	DIW / DI Water	Daily Lab-Certified	07/03/2029	07/03/2024 / lwona	07/03/2024 / lwona	W3112

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	PC19510-7 / Sodium Hydroxide Pellets 12 Kg	23B1556310	12/31/2025	07/08/2024 / lwona	07/08/2024 / lwona	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 / lwona	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 / lwona	08/22/2024 / lwona	W3133

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	JTE494-6 / CHLORAMINE-T BAKER 250GM	10239484	09/09/2029	09/09/2024 / lwona	09/09/2024 / lwona	W3139

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	AL70850-8 / Starch Solution, 4L	4408P62	08/31/2026	10/16/2024 / lwona	10/16/2024 / lwona	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 / lwona	12/02/2024 / lwona	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 / lwona	03/19/2025 / lwona	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 / lwona	W3196

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	J3568-1 / Sodium Borate, 500 gms	BCCL9613	05/31/2029	04/16/2025 / lwona	04/16/2025 / lwona	W3201

CHEMICAL RECEIPT LOG BOOK

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, CRYST, ACS, 500G	MKWCW6723	10/31/2028	04/16/2025 / lwona	04/16/2025 / lwona	W3202

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, CRYST, ACS, 500G	MKCCX1379	01/31/2029	04/29/2025 / lwona	04/29/2025 / lwona	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 / lwona	07/02/2025 / lwona	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 Supply, Inc.	140444 / TEST PAPERS,PH 0-14,.5 SENS,100PK	10BDH15251	04/30/2029	10/02/2025 / lwona	10/02/2025 / lwona	W3241

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	J0938-7 / Ascorbic Acid, 500 gms	MKCCX1143	01/31/2028	10/03/2025 / lwona	10/03/2025 / lwona	W3243

CHEMICAL RECEIPT LOG BOOK

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	A5189	08/30/2030	10/06/2025 / lwona	10/06/2025 / lwona	W3247

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

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 / lwona	10/31/2025 / lwona	W3252



CERTIFICATE OF ANALYSIS

Printed: 12/8/2017

Page 1 of 1

Customer No : 30017
Order Number : 3008126
Catalog : A1561

Customer : PCI SCIENTIFIC
Delivery # : 58495347
Potassium Antimony Tartrate Trihydrate,
Reagent, ACS

Customer PO : 6035343
Lot : 2GH0057

Chemical Formula : $C_8H_4K_2O_{12}Sb_2 \cdot 3H_2O$
CAS# : 28300-74-5

Formula Weight : 667.87

W2306
received
12/11/17
AB

Test

Limit
Min. Max.

Results

ASSAY ($C_8H_4K_2O_{12}Sb_2 \cdot 3HO$)	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 MoO ₃)	81.0 – 83.0 %	81.4
ACS – Insoluble Matter	<= 0.005 %	< 0.001
Chloride (Cl)	<= 0.002 %	< 0.002
Nitrate (NO ₃)	Passes Test	PT
Arsenate, Phosphate and Silicate (as SiO ₂)	<= 0.001 %	< 0.001
ACS – Phosphate (PO ₄)	<= 5 ppm	< 5
Sulfate (SO ₄)	<= 0.02 %	< 0.02
Heavy Metals (as Pb)	<= 0.001 %	< 0.001
Magnesium (Mg)	<= 0.005 %	< 0.001
Potassium (K)	<= 0.01 %	< 0.01
Sodium (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

James Ethier
Jamie Ethier
Vice President Global Quality

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

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 – pH...8.0 (Colorless)	Passes Test	PT
Visual Transition Interval – pH...10.0 (Red)	Passes Test	PT

For Laboratory, Research or Manufacturing Use

Country of Origin: CN
Packaging Site: Paris Mfg Ctr & DC


Jamie Ethier
Vice President Global Quality

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



Certificate Of Analysis

Item Number	P1060	Lot Number	2HD0179
Item	Phenol, Loose Crystal, Reagent, ACS		
CAS Number	108-95-2		
Molecular Formula	C ₆ H ₆ O	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.

Hexadecane, 99.0%



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 ($\text{CH}_3(\text{CH}_2)_{14}\text{CH}_3$) (by GC)	$\geq 99.0 \%$	99.3
Infrared Spectrum	Passes Test	PT

For Laboratory, Research or Manufacturing Use

Country of Origin: US
Packaging Site: Paris Mfg Ctr & DC


Jamie Ethier
Vice President Global Quality

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

W2666 Recived on 02/10/2020 by AP

Product No.: 87683

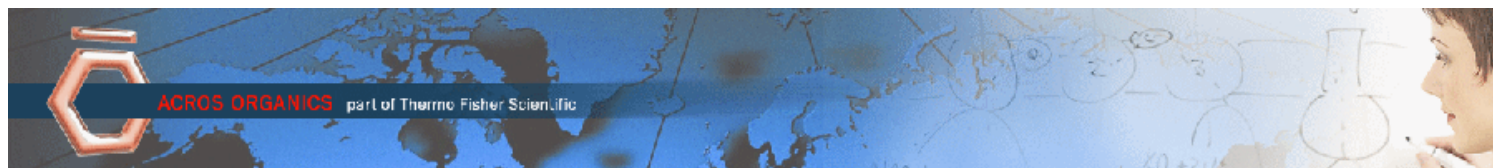
Product: Sodium pentacyanonitrosylferrate(III) dihydrate, ACS,
99.0-102.0%

Lot No.: W12F013

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

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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.



ACROS
ORGANICS

Version 0
Molecular weight 147.13
Molecular formula C₅ H₉ N O₄
CAS No 56-86-0
Linear formula HO₂CCH₂CH₂CH(NH₂)CO₂H
Flash point (°C)

Certificate of Analysis

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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 HCl)	(c=10, 2N HCl)
Chloride (Cl)	=<200 ppm	=<200 ppm
Iron (Fe)	=<30 ppm	=<10 ppm
Sulfate (SO ₄)	=<300 ppm	=<200 ppm
Ammonium (NH ₄)	=<200 ppm	=<200 ppm
Arsenic oxide (As ₂ O ₃)	=<1 ppm	=<1 ppm



A handwritten signature in black ink, which appears to read "L. Van den Broek".

L. Van den Broek, QA Manager

Issued: 24 January 2020

Acros Organics

ENA23, zone 1, nr 1350, Janssen Pharmaceuticaaan 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

W2817

REC. 04/02/2021

Product Name: Stearic acid, 98%, Thermo Scientific Chemicals
Catalog Number: A12244.14

CAS Number: 57-11-4
Molecular Formula: C₁₈H₃₆O₂
Molecular Weight: 284.48
InChI Key: QIQXTHQIDYTRH-UHFFFAOYSA-N
SMILES: CCCCCCCCCCCCCCCC(O)=O
Synonym: stearic acid acide stearique hydrofol acid 1855 hydrofol acid 1655 industrene 5016
stearic acid, ion(1-) (8Cl) glycon TP glycon DP acidum stearinicum 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	
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
Titration Acid or Base	ACS ⁺	0.0001 meq/g max	0.0001 meq/g
Carbonyl Compounds	ACS	Propionaldehyde 0.002% max	< 0.002%
		Acetone 0.002% max	None Detected
Limit of Volatile Impurities	USP	Diethyl Ether NMT 0.1%	< 0.1%
		Acetone NMT 0.1%	None Detected
		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%	

⁺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

Date of Approval: 06/23/2020



W3009
rec. 2/27/2023 12

Product Name:

Hexadecane - ReagentPlus®, 99%

Certificate of Analysis

Product Number:

H6703

Batch Number:

SHBP8192

 $\text{CH}_3(\text{CH}_2)_{14}\text{CH}_3$

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.



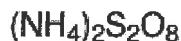
W 3035
rec. 6/6/23 12

Product Name:

Certificate of Analysis

Ammonium persulfate - ACS reagent, $\geq 98.0\%$

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 Chunks	Crystals
ICP Major Analysis	Confirmed	Confirmed
Confirms Sulfur Component		
Titration by KMNO ₄	$\geq 98.0 \%$	100.0 %
Residue on ignition (Ash)	$\leq 0.05 \%$	$< 0.05 \%$
Insoluble Matter	$\leq 0.005 \%$	0.002 %
c = 10 %; In Water		
Chloride and Chlorate (as Cl)	$\leq 0.001 \%$	$< 0.001 \%$
Iron (Fe)	$\leq 0.001 \%$	$< 0.001 \%$
Heavy Metal	$\leq 0.005 \%$	$< 0.001 \%$
as Lead		
Manganese (Mn)	$\leq 0.5 \text{ ppm}$	$< 0.1 \text{ ppm}$
Titrateable Acid (meq/g)	≤ 0.04	< 0.04
Meets ACS Requirements	Current ACS Specification	Conforms


Larry Coers, Director
Quality Control
Milwaukee, WI US

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





Certificate of Analysis

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 raw material ingredients, or used in processing, including lubricants, processing aids, or any other material that might migrate to the finished product.		
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

Jerisa Bailey-Wyche

Quality Assurance Specialist - Certificate of Analysis Fair Lawn

Note: The data listed is valid for all package sizes of this lot of this product, expressed as an extension of this catalog number listed above. If there are any questions with this certificate, please call at (800) 227-6701.

*Based on suggested storage condition.



**PRODUCTOS
QUÍMICOS
MONTERREY, S.A. DE C.V.**

MIRADOR 201, COL. MIRADOR
MONTERREY, N.L. MÉXICO
CP 64070
TEL +52 81 13 52 67 67
www.pqm.com.mx

CERTIFICATE OF ANALYSIS

PRODUCT :	SODIUM SULFATE CRYSTALS ANHYDROUS		
QUALITY :	ACS (CODE RMB3375)	FORMULA :	Na ₂ SO ₄
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 (Cl)	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
Identification	Passes test	Passes test
Solubility and foreign 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 %

COMMENTS

QC: PhC Irma Belmares

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

RE-02-01, Ed. 3

E 3875

Acetone
BAKER RESI-ANALYZED® Reagent
For Organic Residue Analysis

avantor™



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 for water)	>= 99.4 %	99.8 %
Color (APHA)	<= 10	5
Residue after Evaporation	<= 1.0 ppm	0.2 ppm
Substances Reducing Permanganate	Passes Test	Passes Test
Titration Acid (µeq/g)	<= 0.3	0.2
Titration Base (µeq/g)	<= 0.6	<0.1
Water (H ₂ O)	<= 0.5 %	0.2 %
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	<= 5	<1
ECD Sensitive Impurities (as Heptachlor Epoxide) 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

Jamie Croak
Director Quality Operations, Bioscience Production

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700

Avantor Performance Materials LLC



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.



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

 **avantor™**



M6151

R → 11/15/25

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 HCl) (by acid–base titrn)	36.5 – 38.0 %	37.9 %
ACS – Color (APHA)	≤ 10	5
ACS – Residue after Ignition	≤ 3 ppm	< 1 ppm
ACS – Specific Gravity at 60°/60°F	1.185 – 1.192	1.191
ACS – Bromide (Br)	≤ 0.005 %	< 0.005 %
ACS – Extractable Organic Substances	≤ 5 ppm	< 1 ppm
ACS – Free Chlorine (as Cl ₂)	≤ 0.5 ppm	< 0.5 ppm
Phosphate (PO ₄)	≤ 0.05 ppm	< 0.03 ppm
Sulfate (SO ₄)	≤ 0.5 ppm	< 0.3 ppm
Sulfite (SO ₃)	≤ 0.8 ppm	0.3 ppm
Ammonium (NH ₄)	≤ 3 ppm	< 1 ppm
Trace Impurities – Arsenic (As)	≤ 0.010 ppm	< 0.003 ppm
Trace Impurities – Aluminum (Al)	≤ 10.0 ppb	1.3 ppb
Arsenic and Antimony (as As)	≤ 5.0 ppb	< 3.0 ppb
Trace Impurities – Barium (Ba)	≤ 1.0 ppb	0.2 ppb
Trace Impurities – Beryllium (Be)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities – Bismuth (Bi)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Boron (B)	≤ 20.0 ppb	< 5.0 ppb
Trace Impurities – Cadmium (Cd)	≤ 1.0 ppb	< 0.3 ppb
Trace Impurities – Calcium (Ca)	≤ 50.0 ppb	163.0 ppb
Trace Impurities – Chromium (Cr)	≤ 1.0 ppb	0.7 ppb
Trace Impurities – Cobalt (Co)	≤ 1.0 ppb	< 0.3 ppb
Trace Impurities – Copper (Cu)	≤ 1.0 ppb	< 0.1 ppb
Trace Impurities – Gallium (Ga)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities – Germanium (Ge)	≤ 3.0 ppb	< 2.0 ppb
Trace Impurities – Gold (Au)	≤ 4.0 ppb	0.6 ppb
Heavy Metals (as Pb)	≤ 100 ppb	< 50 ppb
Trace Impurities – Iron (Fe)	≤ 15 ppb	6 ppb

>>> Continued on page 2 >>>

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

 **avantorsm**



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 (Tl)	≤ 5.0 ppb	< 2.0 ppb
Trace Impurities – Tin (Sn)	≤ 5.0 ppb	4.0 ppb
Trace Impurities – Titanium (Ti)	≤ 1.0 ppb	1.5 ppb
Trace Impurities – Vanadium (V)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities – Zinc (Zn)	≤ 5.0 ppb	0.8 ppb
Trace Impurities – Zirconium (Zr)	≤ 1.0 ppb	0.3 ppb

>>> Continued on page 3 >>>

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



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

Test	Specification	Result
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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

A handwritten signature in cursive script that reads 'Jamie Ethier'.
Jamie Ethier
Vice President Global Quality

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

avantor™



M6186

Recieve Date :- 08/06/25

Material No.: 9673-33
Batch No.: 23D2462010
Manufactured Date: 2023-03-22
Retest Date: 2028-03-20
Revision No.: 0

Certificate of Analysis

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

>>> Continued on page 2 >>>

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

 **avantorsm**

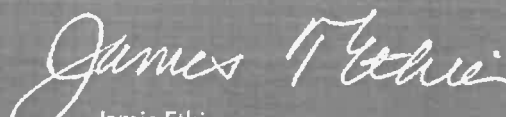


Material No.: 9673-33
Batch No.: 23D2462010

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

For Laboratory, Research, or Manufacturing Use

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


Jamie Ethier
Vice President Global Quality

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 %

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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)



Jose Pena (03/15/2024)

Operations Manager

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

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Certificate of Analysis

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

Lot Number: 1405D67

Product Number: 535

Manufacture Date: APR 05, 2024

Expiration Date: APR 2026

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

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

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

Specification	Reference
Alkaline Iodide-Sodium Azide Solution II	ASTM (D 888 A)
Volumetric glassware complies with Class A tolerance requirements of ASTM E 288 and NIST Circular 434; it is calibrated before first use and recalibrated regularly in accordance with ASTM E 542 and NIST Procedure NBSIR 74-461. Balances are calibrated regularly with weights certified traceable to the NIST national mass standard. Thermometers and temperature probes are calibrated before first use and recalibrated regularly with a thermometer traceable to NIST standards. All products are prepared according to master documents that assure manufacture according to validated methods. Batch records document raw material traceability and production and testing history for each lot manufactured.	

Part Number	Size / Package Type	Shelf Life (Unopened Container)
535-32	1 L natural poly	24 months

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



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

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Certificate of Analysis



Sodium Hydroxide (Pellets)

Material: 0583
Grade: ACS GRADE
Batch Number: 23B1556310

Chemical Formula: NaOH
Molecular Weight: 40
CAS #: 1310-73-2
Appearance:

Manufacture Date: 12/14/2022
Expiration Date: 12/31/2025

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

Internal ID #: 710

Signature

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

Additional Information

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

Product meets analytical specifications of the grades listed.



Sodium Hydroxide (Pellets)

Material: 0583
Grade: ACS GRADE
Batch Number: 23B1556310

Chemical Formula: NaOH
Molecular Weight: 40
CAS #: 1310-73-2
Appearance:

Manufacture Date: 12/14/2022
Expiration Date: 12/31/2025

Storage: Room Temperature

Pellets

Spec Set: 0583ACS

Internal ID #: 710

Signature

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

Additional Information

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

Product meets analytical specifications of the grades listed.

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

TEST	SPECIFICATION		RESULT
	MIN	MAX	
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) ₃ N]		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

Certificate of Analysis Results Approved By:

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

Spectrum Chemical Mfg Corp
755 Jersey Avenue
New Brunswick 08901 NJ



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.

W3139 Received on 9/9/24 by IZ

Product No.: A12044
Product: Chloramine-T trihydrate, 98%
Lot No.: 10239484

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

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



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 (Iodine present)	Passed

Specification	Reference
Starch Solution	APHA (4500-S2- F)
Starch Indicator Solution	APHA (4500-CI 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-CI 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)

A handwritten signature in blue ink that reads "Paul Brandon". The signature is fluid and cursive, with the first name "Paul" and last name "Brandon" clearly distinguishable.

Paul Brandon (08/28/2024)
Production Manager

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Certificate of Analysis



Material	BDH9208-500G
Material Description	BDH AMMONIUM CHLORIDE ACS 500G
Grade	U S P REAGENT (ACS GRADE)
Batch	24L0356561
Reassay Date	08/31/2027
CAS Number	12125-02-9
Molecular Formula	NH ₄ Cl
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

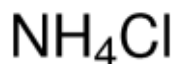
Signature	Additional Information
We certify that this batch conforms to the specifications listed above. This document has been electronically produced and is valid without a signature. Leona Edwardson, Quality Control Sr. Manager - Solon VWR Chemicals, LLC. 28600 Fountain Parkway, Solon OH 44139 USA	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

Certificate of Analysis

Product Name:

Ammonium chloride - ACS reagent, ≥99.5%



Product Number: 213330
Batch Number: MKCV1009
Brand: SIGALD
CAS Number: 12125-02-9
MDL Number: MFCD00011420
Formula: H4ClN
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 AgNO ₃	≥ 99.5 %	100.2 %
pH	4.5 - 5.5	4.9
@ 25 Deg c (5% Solution)		
Insoluble Matter	≤ 0.005 %	0.001 %
10%, H ₂ O		
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 (PO ₄)	≤ 2 ppm	< 2 ppm
Sulfate (SO ₄)	≤ 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.



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.



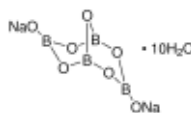
W3201 Received on 4/16/25 by IZ

Certificate of Analysis

Product Name:

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 SO ₄ (ICP)		
Chloride (Cl)	≤ 10 mg/kg	< 10 mg/kg
Phosphate (PO ₄)	≤ 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.



W3202 Received on 4/16/25 by IZ

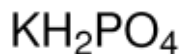
Website: www.sigmaaldrich.comEmail USA: techserv@sial.comOutside USA: eurtechserv@sial.com

Certificate of Analysis

Product Name:

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		
pH	4.1 - 4.5	4.5
(c = 5%, 25 deg C)		
Chloride Content	≤ 0.001 %	< 0.001 %
Sulfate (SO ₄)	≤ 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.

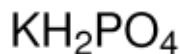


Certificate of Analysis

Product Name:

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		
pH	4.1 - 4.5	4.5
(c = 5%, 25 deg C)		
Chloride Content	≤ 0.001 %	< 0.001 %
Sulfate (SO ₄)	≤ 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.



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) 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.

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

 **avantorsTM**



W3240
JP
07/15/2025
07/15/2025

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 C ₆ Isomers) (by GC, corrected for water)	$\geq 99.5 \%$	100.0 %
Assay (as n-Hexane) (by GC, corrected for water)	$\geq 95 \%$	100 %
Color (APHA)	≤ 10	10
Residue after Evaporation	≤ 1.0 ppm	0.2 ppm
Substances Darkened by H ₂ SO ₄	Passes Test	Passes Test
Water (by KF, coulometric)	$\leq 0.05 \%$	$< 0.01 \%$

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

Country of Origin: United States
Packaging Site: Phillipsburg Mfg Ctr & DC



Jamie Croak
Director Quality Operations, Bioscience Production

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700

Avantor Performance Materials LLC

W3243 Received on 10/3/25 by IZ

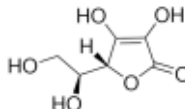
Website: www.sigmaaldrich.comEmail USA: techserv@sial.comOutside USA: eurtechserv@sial.com

Certificate of Analysis

Product Name:

L-Ascorbic acid - ACS reagent, ≥99%

Product Number: 255564
Batch Number: MKCX1143
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 Chunks	Powder
Infrared Spectrum	Conforms to Structure	Conforms
Optical Rotation (+); c = 10%; Water	20.5 - 21.5 deg	21.0 deg
Titration by Iodine	≥ 99.0 %	100.0 %
Residue on Ignition	≤ 0.10 %	0.02 %
Iron (Fe)	≤ 0.001 %	< 0.001 %
Heavy Metals by ICP-OES	≤ 0.002 %	0.001 %
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.





An ISO 9001 Certified Company

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

Certificate of Analysis

This is a Component of 1486266 / LOT A5189

PRODUCT: BOD Nutrient Buffer Pillows

PRODUCT NUMBER: 1486227

LOT NUMBER: A5189

MANUFACTURE DATE: 08/04/2025

DATE OF ANALYSIS: 08/18/2025

TEST	SPECIFICATIONS	RESULTS
Ammonia Concentration of a diluted pillow	0.57 to 0.79 ppm	0.570
Calcium Concentration of a diluted pillow	0.93 to 1.29 ppm	1.060
Iron Concentration of a diluted pillow	0.27 to 0.36 ppm	0.331
Magnesium Concentration of a diluted pillow	0.35 to 0.48 ppm	0.430
Phosphorus Concentration of a diluted pillow	7.6 to 10.3 ppm	8.39
pH in a 6 L of DI water	7.1 to 7.6 ph	7.42
Five Day Change in Dissolved Oxygen Concentration	-0.2 to 0.2 ppm	0.10
Sterility	To Pass	Passed

The expiration date is Aug 2030

Certified by: *Scott Als*

Analytical Service Chemist

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-CI 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.

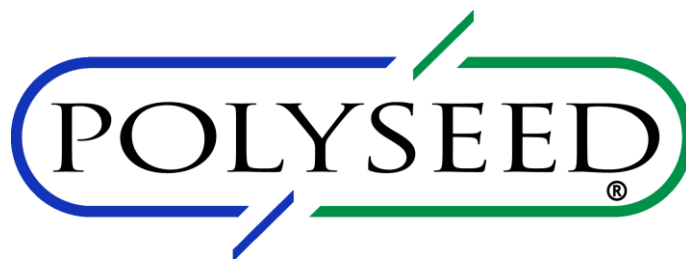
Part Number	Size / Package Type	Shelf Life (Unopened Container)
7900-1	4 L natural poly	18 months
7900-16	500 mL natural poly	18 months
7900-32	1 L natural poly	18 months

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



Jose Pena (09/03/2025)
Operations Manager

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CERTIFICATE OF ANALYSIS

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 4.00×10^9 cfu/g.

GLUCOSE/GLUTAMIC-ACID RESULTS:

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

Quality Control Department

Date: 05/07/2025

POLYSEED.Ref.1.19

Revised Jan 25



SHIPPING DOCUMENTS

CLIENT INFORMATION

REPORT TO BE SENT TO
COMPANY: HOLLAND MANUFACTURING CO
ADDRESS: 15 MAIN ST.
CITY: SUCCASUNNA STATE: NJ ZIP: 07886
ATTENTION:
PHONE: FAX:

CLIENT PROJECT INFORMATION

PROJECT NAME: HMC Pretreatment
PROJECT NO.: LOCATION:
PROJECT MANAGER: TODD HOLLAND
e-mail:
PHONE: FAX:

CLIENT BILLING INFORMATION

BILL TO: PO#:
ADDRESS:
CITY STATE: ZIP:
ATTENTION: PHONE:

ANALYSIS

DATA TURNAROUND INFORMATION

FAX (RUSH) DAYS*
HARDCOPY (DATA PACKAGE): DAYS*
EDD: DAYS*
*TO BE APPROVED BY CHEMTECH
STANDARD HARDCOPY TURNAROUND TIME IS 10 BUSINESS

DATA DELIVERABLE INFORMATION

☐ Level 1 (Results Only) ☐ Level 4 (QC + Full Raw Data)
☐ Level 2 (Results + QC) ☐ NJ Reduced ☐ US EPA CLP
☐ Level 3 (Results + QC) ☐ NYS ASP A ☐ NYS ASP B
+ Raw Data ☐ Other
☐ EDD FORMAT

1. 2. 3. 4. 5. 6. 7. 8. 9.
BOD 5 TSS Pot O+G Pot TOTAL P NH7

ALLIANCE SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE		SAMPLE COLLECTION		# OF BOTTLES	PRESERVATIVES									COMMENTS	
			COMP	GRAB	DATE	TIME		E	E	C	C	C	C				← Specify Preservatives	
1.	EFFLUENT	W		✓	11-5-25	12:00	6	✓	✓	✓	✓	✓	✓				A-HCl D-NaOH	
2.	AERATION	W		✓	11-5-25	12:00	1		✓								B-HNO3 E-ICE	
3.	INFLUENT	W		✓	11-5-25	12:00	2	✓					✓				C-H2SO4 F-OTHER	
4.																		
5.																		
6.																		
7.																		
8.																		
9.																		
10.																		

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER: <u>1. Doug Nungesser</u>	DATE/TIME: <u>11-5-25 1440</u>	RECEIVED BY: <u>1. [Signature]</u>	Conditions of bottles or coolers at receipt: ☐ COMPLIANT ☐ NON COMPLIANT ☐ COOLER TEMP <u>24.5</u> °C
RELINQUISHED BY SAMPLER: <u>2. [Signature]</u>	DATE/TIME:	RECEIVED BY: <u>2. [Signature]</u>	Comments: <u>Lab to filter</u>
RELINQUISHED BY SAMPLER: <u>3. [Signature]</u>	DATE/TIME:	RECEIVED BY: <u>3. [Signature]</u>	Comments: <u>Lab to filter</u>

Page ____ of ____

CLIENT: ☐ Hand Delivered ☐ Other

Shipment Complete
☐ YES ☐ NO

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