

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

# **Cover Page**

Order ID:	Q2203
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**Project ID:** Transfer Station-SPDES

**Client:** Tully Environmental, Inc

## **Lab Sample Number**

**Client Sample Number** 

Q2203-01 001-WILLETS-PT-BLVD(JUNE)
Q2203-04 002-35TH-AVE(JUNE)

I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hard copy data package has been authorized by the laboratory manager or his designee, as verified by the following signature.

Signature :			
Signature .	———— Da	te:	6/11/2025

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012



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## CASE NARRATIVE

**Tully Environmental, Inc** 

**Project Name: Transfer Station-SPDES** 

Project # N/A Order ID # Q2203

Test Name: Ammonia, BOD5, Oil and Grease, TSS

## A. Number of Samples and Date of Receipt:

2 Water samples were received on 06/04/2025.

#### **B. Parameters:**

According to the Chain of Custody document, the following analyses were requested: Ammonia, BOD5, Metals Group 10, Oil and Grease, TSS and VOC-BTEX. This data package contains results for Ammonia, BOD5, Oil and Grease, TSS.

## C. Analytical Techniques:

The analysis of Oil and Grease was based on method 1664A, The analysis of TSS was based on method SM2540 D, The analysis of Ammonia was based on method SM4500-NH3 and The analysis of BOD5 was based on method SM5210 B.

## D. QA/ QC Samples:

The Holding Times were met for all analysis.

Sample 001-WILLETS-PT-BLVD(JUNE) was diluted due to high concentrations for Ammonia as N & Sample 002-35TH-AVE(JUNE) was diluted due to high concentrations for Ammonia as N.

The Blank Spike met requirements for all samples.

The Duplicate analysis met criteria for all samples.

The Matrix Spike analysis met criteria for all samples.

The Matrix Spike Duplicate analysis met criteria for all samples.

The Blank analysis did not indicate the presence of lab contamination.

The Calibration met the requirements.

## **E. Additional Comments:**

As per method 1664A, MS/MSD is required to be performed with the sample analysis. However, Lab did not receive sufficient volume to perform the MS/MSD for Q2203 therefore Lab reported MS-MSD from Q2243 and Q2191.

I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. The laboratory manager or his designee, as verified by the following signature has authorized release of the data contained in this hard copy data package.




# DATA REPORTING QUALIFIERS- INORGANIC

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

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





APPENDIX A

## **QA REVIEW GENERAL DOCUMENTATION**

Project #: Q2203

	Completed
For thorough review, the report must have the following:	
GENERAL:	
Are all original paperwork present (chain of custody, record of communication, airbill, sample management lab chronicle, login page)	<u> </u>
Check chain-of-custody for proper relinquish/return of samples	<u> </u>
Is the chain of custody signed and complete	<u> </u>
Check internal chain-of-custody for proper relinquish/return of samples /sample extracts	<u> </u>
Collect information for each project id from server. Were all requirements followed	<u> </u>
COVER PAGE:	
Do numbers of samples correspond to the number of samples in the Chain of Custody on login page	<u> </u>
Do lab numbers and client Ids on cover page agree with the Chain of Custody	<u> </u>
CHAIN OF CUSTODY:	
Do requested analyses on Chain of Custody agree with form I results	<u> </u>
Do requested analyses on Chain of Custody agree with the log-in page	<u> </u>
Were the correct method log-in for analysis according to the Analytical Request and Chain of Castody	<u> </u>
Were the samples received within hold time	<u> </u>
Were any problems found with the samples at arrival recorded in the Sample Management Laboratory	
Chronicle	
ANALYTICAL:	
Was method requirement followed?	<u> </u>
Was client requirement followed?	<u> </u>
Does the case narrative summarize all QC failure?	<u> </u>
All runlogs and manual integration are reviewed for requirements	<u> </u>
All manual calculations and /or hand notations verified	<u> </u>

QA Review Signature: KETAN PATEL Date: 06/1
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## LAB CHRONICLE

OrderID: Q2203

Client: Tully Environmental, Inc

Contact: Dean Devoe

OrderDate: 6/4/2025 12:05:00 PM

Project: Transfer Station-SPDES Location: N31,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q2203-01	001-WILLETS-PT-BLV D(JUNE)	WATER			06/03/25 13:30			06/04/25
			Ammonia	SM4500-NH3		06/05/25	06/06/25 11:27	
			BOD5	SM5210 B			06/04/25 16:25	
			Oil and Grease	1664A			06/09/25 13:00	
			TSS	SM2540 D			06/05/25 10:00	
Q2203-01DL	001-WILLETS-PT-BLV D(JUNE)DL	WATER			06/03/25 13:30			06/04/25
			Ammonia	SM4500-NH3		06/05/25	06/06/25 12:25	
Q2203-04	002-35TH-AVE(JUNE)	WATER			06/03/25 13:30			06/04/25
			Ammonia	SM4500-NH3		06/05/25	06/06/25 11:37	
			BOD5	SM5210 B			06/04/25 16:25	
			Oil and Grease	1664A			06/09/25 13:00	
			TSS	SM2540 D			06/05/25 10:00	
Q2203-04DL	002-35TH-AVE(JUNE) DL	WATER			06/03/25 13:30			06/04/25
			Ammonia	SM4500-NH3	25.55	06/05/25	06/06/25 12:25	



# SAMPLE DATA



Lab Sample ID:

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Q2203-01

## **Report of Analysis**

Client: Tully Environmental, Inc Date Collected: 06/03/25 13:30

Project: Transfer Station-SPDES Date Received: 06/04/25

Client Sample ID: 001-WILLETS-PT-BLVD(JUNE) SDG No.: Q2203

% Solid: 0

WATER

Matrix:

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Ammonia as N	5.50	OR	1	0.030	0.10	mg/L	06/05/25 13:50	06/06/25 11:27	SM 4500-NH3
									B plus G-11
BOD5	398		1	0.20	2.00	mg/L		06/04/25 16:25	SM 5210 B-16
Oil and Grease	32.1		1	0.29	5.00	mg/L		06/09/25 13:00	1664A
TSS	325		1	1.00	4.00	mg/L		06/05/25 10:00	SM 2540 D-15

### Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

D = Dilution

Q = indicates LCS control criteria did not meet requirements

H = Sample Analysis Out Of Hold Time

J = Estimated Value

B = Analyte Found in Associated Method Blank

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

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

OR = Over Range



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## **Report of Analysis**

Client: Tully Environmental, Inc Date Collected: 06/03/25 13:30 Project: Transfer Station-SPDES Date Received: 06/04/25 Client Sample ID: 001-WILLETS-PT-BLVD(JUNE)DL SDG No.: Q2203 Lab Sample ID: Q2203-01DL Matrix: WATER % Solid: 0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Ammonia as N	5.30	D	5	0.15	0.50	mg/L	06/05/25 13:50	06/06/25 12:25	SM 4500-NH3
									B plus G-11

Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

D = Dilution

Q = indicates LCS control criteria did not meet requirements

H = Sample Analysis Out Of Hold Time

J = Estimated Value

B = Analyte Found in Associated Method Blank

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

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

OR = Over Range



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# **Report of Analysis**

Client: Tully Environmental, Inc Date Collected: 06/03/25 13:30

Project: Transfer Station-SPDES Date Received: 06/04/25

Client Sample ID: 002-35TH-AVE(JUNE) SDG No.: Q2203

Lab Sample ID: Q2203-04 Matrix: WATER

% Solid: 0

Parameter	Conc. Q	ua. D	F MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Ammonia as N	5.20	OR 1	0.030	0.10	mg/L	06/05/25 13:50	06/06/25 11:37	SM 4500-NH3
								B plus G-11
BOD5	307	1	0.20	2.00	mg/L		06/04/25 16:25	SM 5210 B-16
Oil and Grease	34.7	1	0.29	5.00	mg/L		06/09/25 13:00	1664A
TSS	286	1	1.00	4.00	mg/L		06/05/25 10:00	SM 2540 D-15

### 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.

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OR = Over Range



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## **Report of Analysis**

Client: Tully Environmental, Inc Date Collected: 06/03/25 13:30 Project: Transfer Station-SPDES Date Received: 06/04/25 Client Sample ID: 002-35TH-AVE(JUNE)DL SDG No.: Q2203 Lab Sample ID: Q2203-04DL Matrix: WATER % Solid: 0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Ammonia as N	5.00	D	5	0.15	0.50	mg/L	06/05/25 13:50	06/06/25 12:25	SM 4500-NH3
									B plus G-11

Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

D = Dilution

Q = indicates LCS control criteria did not meet requirements

H = Sample Analysis Out Of Hold Time

J = Estimated Value

B = Analyte Found in Associated Method Blank

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

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

OR = Over Range



# QC RESULT SUMMARY





# **Initial and Continuing Calibration Verification**

Client: Tully Environmental, Inc SDG No.: Q2203

Analyte		Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID:	ICV1						
Ammonia as N		mg/L	1.1	1	110	90-110	06/06/2025
Sample ID:	CCV1						
Ammonia as N		mg/L	1	1	100	90-110	06/06/2025
Sample ID:	CCV2						
Ammonia as N		mg/L	1.1	1	110	90-110	06/06/2025
Sample ID:	CCV3						
Ammonia as N		mg/L	1.1	1	110	90-110	06/06/2025
Sample ID:	CCV4						
Ammonia as N		mg/L	1.1	1	110	90-110	06/06/2025
Sample ID:	CCV5						
Ammonia as N		mg/L	1	1	100	90-110	06/06/2025





# **Initial and Continuing Calibration Blank Summary**

Client: Tully Environmental, Inc SDG No.: Q2203

Analyte	Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID: ICB1 Ammonia as N	mg/L	0.04	0.0500	J	0.030	0.1	06/06/2025
	9, -						
Sample ID: CCB1 Ammonia as N	mg/L	< 0.0500	0.0500	U	0.030	0.1	06/06/2025
Sample ID: CCB2 Ammonia as N	mg/L	0.04	0.0500	J	0.030	0.1	06/06/2025
Sample ID: CCB3 Ammonia as N	mg/L	0.045	0.0500	J	0.030	0.1	06/06/2025
Sample ID: CCB4 Ammonia as N	mg/L	0.037	0.0500	J	0.030	0.1	06/06/2025
Sample ID: CCB5 Ammonia as N	mg/L	0.034	0.0500	J	0.030	0.1	06/06/2025





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# **Preparation Blank Summary**

Client: Tully Environmental, Inc SDG No.: Q2203

**Project:** Transfer Station-SPDES

Analyte	Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID: BOD5	LB136002BL mg/L	< 0.2000	0.2000	Ŭ	0.20	2.0	06/04/2025
Sample ID:	LB136013BL mg/L	1	2.0000	J	1	4	06/05/2025
Sample ID: Oil and Gr	LB136056BL cease mg/L	< 2.5000	2.5000	Ŭ	0.29	5.0	06/09/2025
Sample ID: Ammonia as	PB168326BL mg/L	0.03	0.0500	J	0.03	0.1	06/06/2025



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# **Matrix Spike Summary**

Client: Tully Environmental, Inc SDG No.: Q2203

**Project:** Transfer Station-SPDES Sample ID: Q2191-01

Client ID: EFFLUENTMS Percent Solids for Spike Sample: 0

		Acceptance	Spiked	Conc.	Sample	Conc.	Spike	Dilution	%		Analysis	
Analyte	Units	Limit %R	Result	Qualifier	Result	Qualifier	Added	Factor	Rec	Qual	Date	
Oil and Grease	mg/L	78-114	90.8		70.8		20.0	1	100		06/09/2025	



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# **Matrix Spike Summary**

Client: Tully Environmental, Inc SDG No.: Q2203

**Project:** Transfer Station-SPDES Sample ID: Q2191-01

Client ID: EFFLUENTMSD Percent Solids for Spike Sample: 0

		Acceptance	Spiked	Conc.	Sample	Conc.	Spike	Dilution	%		Analysis
Analyte	Units	Limit %R	Result	Qualifier	Result	Qualifier	Added	Factor	Rec	Qual	Date
Oil and Grease	mg/L	78-114	90.9		70.8		20.0	1	101		06/09/2025



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# **Matrix Spike Summary**

Client: Tully Environmental, Inc SDG No.: Q2203

**Project:** Transfer Station-SPDES Sample ID: Q2203-01

Client ID: 001-WILLETS-PT-BLVD(JUNE)MS Percent Solids for Spike Sample: 0

		Acceptance	Spiked	Conc.	Sample	Conc.	Spike	Dilution	%		Analysis	
Analyte	Units	Limit %R	Result	Qualifier	Result	Qualifier	Added	Factor	Rec	Qual	Date	
Ammonia as N	mg/L	75-125	6.70	OR	5.50	OR	1	1	120		06/06/2025	_



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# **Matrix Spike Summary**

Client: Tully Environmental, Inc SDG No.: Q2203

**Project:** Transfer Station-SPDES Sample ID: Q2203-01

Client ID: 001-WILLETS-PT-BLVD(JUNE)MSD Percent Solids for Spike Sample: 0

		Acceptance	Spiked	Conc.	Sample	Conc.	Spike	Dilution	%		Analysis	
Analyte	Units	Limit %R	Result	Qualifier	Result	Qualifier	Added	Factor	Rec	Qual	Date	
Ammonia as N	mg/L	75-125	6.50	OR	5.50	OR	1	1	100		06/06/2025	_



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# **Matrix Spike Summary**

Client: Tully Environmental, Inc SDG No.: Q2203

**Project:** Transfer Station-SPDES Sample ID: Q2243-02

Client ID: WATER-TREATMENT-DISCHARGEMS Percent Solids for Spike Sample: 0

		Acceptance	Spiked	Conc.	Sample	Conc.	Spike	Dilution	%		Analysis	
Analyte	Units	Limit %R	Result	Qualifier	Result	Qualifier	Added	Factor	Rec	Qual	Date	
Oil and Grease	mg/L	78-114	23.9		3.90	J	20.0	1	100		06/09/2025	_



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# **Matrix Spike Summary**

Client: Tully Environmental, Inc SDG No.: Q2203

**Project:** Transfer Station-SPDES Sample ID: Q2243-02

Client ID: WATER-TREATMENT-DISCHARGEMSD Percent Solids for Spike Sample: 0

		Acceptance	Spiked	Conc.	Sample	Conc.	Spike	Dilution	%		Analysis	
Analyte	Units	Limit %R	Result	Qualifier	Result	Qualifier	Added	Factor	Rec	Qual	Date	
Oil and Grease	mg/L	78-114	24.3		3.90	J	20.0	1	102		06/09/2025	_



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# **Duplicate Sample Summary**

Client: Tully Environmental, Inc SDG No.: Q2203

**Project:** Transfer Station-SPDES Sample ID: Q2191-01

Client ID: EFFLUENTMSD Percent Solids for Spike Sample: 0

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/ AD	Qual	Analysis Date	
Oil and Grease	mg/L	+/-18	90.8		90.9		1	0.11		06/09/2025	



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# **Duplicate Sample Summary**

Client: Tully Environmental, Inc SDG No.: Q2203

**Project:** Transfer Station-SPDES Sample ID: Q2197-05

Client ID: DSN003DUP 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	8.84		8.64		1	2.29		06/04/2025
TSS	mg/L	+/-5	7.90		8.00		1	1.26		06/05/2025



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# **Duplicate Sample Summary**

Client: Tully Environmental, Inc SDG No.: Q2203

**Project:** Transfer Station-SPDES Sample ID: Q2203-01

Client ID: 001-WILLETS-PT-BLVD(JUNE)DUP Percent Solids for Spike Sample: 0

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/ AD	Qual	Analysis Date
Ammonia as N	mg/L	+/-20	5.50	OR	5.40	OR	1	2		06/06/2025
Ammonia as N	mg/L	+/-20	5.30	D	5.30	D	5	0		06/06/2025



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# **Duplicate Sample Summary**

Client: Tully Environmental, Inc SDG No.: Q2203

**Project:** Transfer Station-SPDES Sample ID: Q2203-01

Client ID: 001-WILLETS-PT-BLVD(JUNE)MSD Percent Solids for Spike Sample: 0

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/ AD	Qual	Analysis Date	
Ammonia as N	mg/L	+/-20	6.70	OR	6.50	OR	1	3		06/06/2025	_



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# **Duplicate Sample Summary**

Client: Tully Environmental, Inc SDG No.: Q2203

**Project:** Transfer Station-SPDES Sample ID: Q2243-02

Client ID: WATER-TREATMENT-DISCHARGEMSD 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	23.9		24.3		1	1.66		06/09/2025	





**Laboratory Control Sample Summary** 

Client: Tully Environmental, Inc SDG No.: Q2203

Analyte		Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID	LB136002BS								
BOD5		mg/L	198	178		90	1	84.6-115.4	06/04/2025





**Laboratory Control Sample Summary** 

Client: Tully Environmental, Inc SDG No.: Q2203

Analyte		Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID	LB136013BS								
TSS		mg/L	550	532		97	1	90-110	06/05/2025





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# **Laboratory Control Sample Summary**

Client: Tully Environmental, Inc SDG No.: Q2203

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID LB136056BS								
Oil and Grease	mg/L	20.0	16.9		84	1	78-114	06/09/2025





**Laboratory Control Sample Summary** 

Client: Tully Environmental, Inc SDG No.: Q2203

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID PB168326BS								
Ammonia as N	mg/L	1	1.10		110	1	90-110	06/06/2025



# RAW DATA

Alliance

QC BATCH ID: LB136002

BOD Water: WP113377

Starch: W3149

POLYSEED: WP113380

**GGA:** WP113379

Sulfuric acid, 1N: WP112832

Chlorine Strips: W3155

pH Strips: W3140

BOD5 LOG

ANALYST: rubir Inst Id: DO METER

Reviewed By:Iwona On:6/10/2025 9:56:32

SUPERVISOR: Iwona

**Analysis Date:** 06/04/2025

MANGANOUS SULFATE SOLUTION: W3103

Alkaline Iodide Azide: W3109

Sodium Thiosulfate, 0.025N: W3105

NaOH, 1N: WP111323

IncubatorID: INCUBATOR #3

**GuageID:** 0511064

**Zero DO:** WP113147

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: 9.48 Zero DO Reading1: 0.15 mg/L (<=0.2 Criteria)

Barometric Pressure1: 765 mmHg DO Meter BOD fluid reading for winkler comparison: 9.80

After Incubation

Meter Calibration2: 9.29 Zero DO Reading2: 0.10 mg/L (<=0.2 Criteria)

Barometric Pressure2: 760 mmHg



QC BATCH ID: LB136002

INCUBATOR TEMP IN(C): 20.3

TIME IN: 16:25 TIME OUT: 12:45

**DATE IN:** 06/04/2025 **DATE OUT:** 06/09/2025

INCUBATOR TEMP OUT (C): 19.7

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
LB136002BL	1	No	6.61	N/A	20.90	300	9.80	9.78	0.02	0.02	0.02	
POLYSEED	1					10	9.75	6.72	3.03	0.61	0.64	
POLYSEED	2					15	9.70	4.44	5.26	0.7		
POLYSEED	3					20	9.67	3.59	6.08	0.61		
GGA	1					6	9.68	5.64	4.04	170	178.33	
GGA	2					6	9.67	5.26	4.41	188.5		
GGA	3					6	9.71	5.54	4.17	176.5		
Q2191-01	1	No	7.80	7.21	20.40	1	9.73	8.44	-	0	5752	pH Adjuste
Q2191-01	2					5	9.70	7.62	2.08	8640		
Q2191-01	3					10	9.58	7.57	2.01	4110		
Q2191-01	4					50	9.50	1.35	8.15	4506		
Q2191-01	5					100	9.38	0.29	-	0		
Q2197-01	1	No	6.90	N/A	20.20	5	9.70	8.65	-	0	13.73	
Q2197-01	2					20	9.68	8.55	-	0		
Q2197-01	3					50	9.64	6.93	2.71	12.42		
Q2197-01	4					150	9.60	1.44	8.16	15.04		
Q2197-03	1	No	6.92	N/A	20.30	5	9.73	8.42	-	0	9.54	
Q2197-03	2					20	9.70	8.02	-	0		
Q2197-03	3					50	9.65	7.42	2.23	9.54		
Q2197-03	4					150	6.43	5.69	-	0		
Q2197-05	1	No	6.85	N/A	20.40	5	9.72	8.50	-	0	8.84	
Q2197-05	2					20	9.70	8.02	-	0		
Q2197-05	3					50	9.67	7.34	2.33	10.14		
Q2197-05	4					150	9.50	5.09	4.41	7.54		
Q2197-05DUP	1	No	6.85	N/A	20.40	5	9.73	8.66	-	0	8.64	
Q2197-05DUP	2					20	9.70	8.10	-	0		
Q2197-05DUP	3					50	9.66	7.37	2.29	9.9		
Q2197-05DUP	4					150	9.48	5.15	4.33	7.38		
Q2203-01	1	No	6.36	6.99	20.20	5	9.67	2.39	7.28	398.4	398.4	pH Adjuste
Q2203-01	2					20	9.22	0.23	-	0		
Q2203-01	3					50	8.38	0.20	-	0		
Q2203-01	4					150	5.04	0.16	-	0		
Q2203-04	1	No	6.42	7.09	20.40	5	9.77	4.01	5.76	307.2	307.2	pH Adjuste
Q2203-04	2					20	9.46	0.18	-	0		
Q2203-04	3					50	8.50	0.13	-	0		
Q2203-04	4					150	5.00	0.10	-	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.



### TOTAL SUSPENDED SOLIDS - SM2540D

SUPERVISOR: Iwona

**ANALYST:** jignesh

**Date:** 06/04/2025

Run Number: LB136013

TEMP1 IN:	104 °C 06/04/2025 14:0	O TEMP1 OUT:	103 °C 06/04/2025 15:0	BalanceID:	WC SC-6
TEMP2 IN:	104 °C 06/04/2025 15:3	O TEMP2 OUT:	103 °C 06/04/2025 16:3	OvenID:	WC OVEN-1
TEMP3 IN:	104 °c 06/05/2025 10:0	O TEMP3 OUT:	103 °C 06/05/2025 11:3	FilterID:	17416528
TEMP4 IN:	104 °C 06/05/2025 12:1	5 TEMP4 OUT:	103 °c 06/05/2025 14:1	ThermometerID:	WET OVEN#1

Dish #	Lab ID	Client ID	Empty Dish Weight (g)	Final Empty Dish Weight (g)	Sample Volume (ml)	1st Empty Dish+Sample weight after 1.5hr drying @103-@105°C (g)	2nd Empty Dish+Sample weight after 1.5hr drying @103-@105°C (g)	Final Empty Dish+Sample weight after 1.5hr drying @103-@105°C (g)	Weight (g)	Result mg/L
1	LB136013BL	LB136013BL	1.3562	1.3562	100	1.3563	1.3563	1.3563	0.0001	1
2	LB136013BS	LB136013BS	1.4893	1.4893	100	1.5425	1.5425	1.5425	0.0532	532
3	Q2191-01	EFFLUENT	1.4750	1.4750	30	1.5905	1.5905	1.5905	0.1155	3850
4	Q2191-04	AERATION-1	1.4923	1.4923	30	1.6215	1.6215	1.6215	0.1292	4306.7
5	Q2196-01	TOWER-1	1.4750	1.4750	1000	1.4837	1.4837	1.4837	0.0087	8.7
6	Q2196-02	TOWER-2	1.5030	1.5030	2000	1.5075	1.5075	1.5075	0.0045	2.2
7	Q2197-01	DSN002	1.4969	1.4969	1000	1.5066	1.5066	1.5066	0.0097	9.7
8	Q2197-03	DSN001	1.4815	1.4815	1000	1.4931	1.4931	1.4931	0.0116	11.6
9	Q2197-05	DSN003	1.4971	1.4971	1000	1.5050	1.5050	1.5050	0.0079	7.9
10	Q2197-05DUP	DSN003DUP	1.4781	1.4781	1000	1.4861	1.4861	1.4861	0.0080	8
11	Q2203-01	001-WILLETS-PT-BLVD(JUNE)	1.4826	1.4826	100	1.5151	1.5151	1.5151	0.0325	325
12	Q2203-04	002-35TH-AVE(JUNE)	1.4867	1.4867	100	1.5153	1.5153	1.5153	0.0286	286
13	Q2205-01	001-WILLETS-PT-BLVD(MAY)	1.4999	1.4999	100	1.5150	1.5150	1.5150	0.0151	151
14	Q2205-02	002-35TH-AVE (MAY)	1.4894	1.4894	100	1.5030	1.5030	1.5030	0.0136	136



### TOTAL SUSPENDED SOLIDS - SM2540D

SUPERVISOR: Iwona

**ANALYST:** jignesh

**Date:** 06/04/2025

Run Number: LB136013

104 °C 06/04/2025 14:00 TEMP1 OUT: 103 °c 06/04/2025 15:00 TEMP1 IN: BalanceID: WC SC-6 104 °C 06/04/2025 15:30 TEMP2 OUT: 103 °C 06/04/2025 16:30 TEMP2 IN: OvenID: WC OVEN-1 104 °C 06/05/2025 10:00 TEMP3 OUT: 103 °C 06/05/2025 11:35 TEMP3 IN: **FilterID:** 17416528 104 °C 06/05/2025 12:15 TEMP4 OUT: 103 °c 06/05/2025 14:10 TEMP4 IN: ThermometerID: WET OVEN#1

Dish #	Lab ID	Client ID	Empty Dish Weight (g)	Final Empty Dish Weight (g)	Sample Volume (ml)	1st Empty Dish+Sample weight after 1.5hr drying @103-@105°C (g)	2nd Empty Dish+Sample weight after 1.5hr drying @103-@105°C (g)	Final Empty Dish+Sample weight after 1.5hr drying @103-@105°C (g)	Weight (g)	Result mg/L

A = Sample Volume (ml)

B = Final Empty Dish Weight (g)

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

) = Weight (g)

Weight (g) = C - B

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

Reviewed By:lwona 65 13 60 3 On:6/6/2025 1:50:40 PM

Test results

Aquakem 7.2AQ1

Page:

Inst Id :Konelab 20 LB :LB136039

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

Reviewed by : RM Instrument ID : Konelab

6/6/2025 12:34

Test: Ammonia-N

ICV1 ICB1 CCV1	1.069			
		0.0	0.219	
CCV1	0.040	0.0	0.030	
	1.021	0.0	0.210	
CCB1	0.029	0.0	0.028	2115 150
RL CHECK	0.123	0.0	0.045	123/ (50-156)
PB168326BL	0.029	0.0	0.028	06/06/2025
PB168326BS	1.081	0.0	0.221	N, I
Q2126-07	0.110	0.0	0.042	
Q2126-08	0.135	0.0	0.047	
Q2191-01	8.666	0.0	1.615	Test limit high
Q2191-04	8.345	0.0	1.556	Test limit high
Q2203-01	5.488	0.0	1.031	Test limit high
Q2203-01DUP	5.433	0.0	1.021	Test limit high
Q2203-01MS	6.687	0.0	1.251	Test limit high
CCV2	1.072	0.0	0.219	rest rimit high
CCB2	0.040	0.0	0.029	
Q2203-01MSD	6.456	0.0	1.209	Test limit high
Q2203-04	5.232	0.0	0.984	Test limit high
Q2243-01	1.284	0.0	0.258	rest ilmit nigh
RL CHECK.	0.135	0.0	0.047	135/ (50-150)
PB168328BL	0.030	0.0	0.028	
PB168328BS	1.078	0.0	0.220	06/06/2025
Q2085-04	0.183	0.0	0.056	RIT
Q2085-04DUP	0.171	0.0	0.054	
Q2085-04MS	1.163	0.0	0.236	
Q2085-04MSD	1.178	0.0	0.239	
CCV3	1.059	0.0	0.237	
CCB3	0.045	0.0	0.030	
22126-01	0.119	0.0	0.044	
Q2126-02	0.138	0.0	0.048	
CCV4	1.087	0.0	0.222	
CCB4	0.036	0.0	0.029	
2191-01DLX10	0.823	0.0	0.174	
2191-04DLX10	0.779	0.0	0.165	
2203-01DLX5	1.062	0.0	0.217	
2203-01DUPDLX5	1.052	0.0	0.217	
2203-04DLX5	1.005	0.0	0.215	
CV5	1.031	0.0	0.212	
CB5	0.034	0.0	0.028	

N	39
Mean	1.655
SD	2.4571
CV%	148.46

Aquakem v. 7.2AQ1 Results from time period: Fri Jun 06 09:55:54 2025 Fri Jun 06 12:30:24 2025

Sample Id	Sai	m/Ct: Test short na Test type	Result Result	uni Result date and time Stat
0.0PPM	Α	Ammonia-N P	0.0043 mg/l	6/6/2025 9:55:54
0.1PPM	Α	Ammonia-N P	0.1045 mg/l	6/6/2025 9:55:55
0.2PPM	Α	Ammonia-N P	0.1939 mg/l	6/6/2025 9:55:56
0.4PPM	Α	Ammonia-N P	0.3962 mg/l	6/6/2025 9:55:57
1.0PPM	Α	Ammonia-N P	1.0043 mg/l	6/6/2025 9:55:58
1.3PPM	Α	Ammonia-N P	1.3267 mg/l	6/6/2025 9:55:59
2.0PPM	Α	Ammonia-N P	2.0034 mg/l	6/6/2025 9:56:00
ICV1	S	Ammonia-N P	1.0689 mg/l	6/6/2025 11:16:14
ICB1	S	Ammonia-N P	0.0401 mg/l	6/6/2025 11:16:16
CCV1	S	Ammonia-N P	1.0213 mg/l	6/6/2025 11:16:17
CCB1	S	Ammonia-N P	0.0294 mg/l	6/6/2025 11:16:19
RL CHECK	S	Ammonia-N P	0.1229 mg/l	6/6/2025 11:16:21
PB168326BL	S	Ammonia-N P	0.0295 mg/l	6/6/2025 11:16:23
PB168326BS	S	Ammonia-N P	1.0812 mg/l	6/6/2025 11:26:58
Q2126-07	S	Ammonia-N P	0.1104 mg/l	6/6/2025 11:26:59
Q2126-08	S	Ammonia-N P	0.1345 mg/l	6/6/2025 11:27:01
Q2191-01	S	Ammonia-N P	8.6657 mg/l	6/6/2025 11:27:03
Q2191-04	S	Ammonia-N P	8.3447 mg/l	6/6/2025 11:27:04
Q2203-01	S	Ammonia-N P	5.488 mg/l	6/6/2025 11:27:06
Q2203-01DUP	S	Ammonia-N P	5.4332 mg/l	6/6/2025 11:27:07
Q2203-01MS	S	Ammonia-N P	6.6871 mg/l	6/6/2025 11:27:08
CCV2	S	Ammonia-N P	1.0717 mg/l	6/6/2025 11:37:42
CCB2	S	Ammonia-N P	0.0397 mg/l	6/6/2025 11:37:44
Q2203-01MSD	S	Ammonia-N P	6.456 mg/l	6/6/2025 11:37:46
Q2203-04	S	Ammonia-N P	5.2322 mg/l	6/6/2025 11:37:48
Q2243-01	S	Ammonia-N P	1.2835 mg/l	6/6/2025 11:37:49
RL CHECK.	S	Ammonia-N P	0.1353 mg/l	6/6/2025 11:37:50
PB168328BL	S	Ammonia-N P	0.0295 mg/l	6/6/2025 11:37:52
PB168328BS	S	Ammonia-N P	1.0777 mg/l	6/6/2025 11:48:27
Q2085-04	S	Ammonia-N P	0.183 mg/l	6/6/2025 11:48:29
Q2085-04DUP	S	Ammonia-N P	0.1712 mg/l	6/6/2025 11:48:30
Q2085-04MS	S	Ammonia-N P	1.1629 mg/l	6/6/2025 11:48:31
Q2085-04MSD	S	Ammonia-N P	1.1782 mg/l	6/6/2025 11:48:32
CCV3	S	Ammonia-N P	1.0592 mg/l	6/6/2025 11:48:37
CCB3	S	Ammonia-N P	0.0448 mg/l	6/6/2025 11:58:34
Q2126-01	S	Ammonia-N P	0.1186 mg/l	6/6/2025 11:58:35
Q2126-02	S	Ammonia-N P	0.1384 mg/l	6/6/2025 11:58:38
CCV4	S	Ammonia-N P	1.0865 mg/l	6/6/2025 11:58:40
CCB4	S	Ammonia-N P	0.0365 mg/l	6/6/2025 11:58:42

Q2191-01DLX10	S	Ammonia-N P	0.8233 mg/l	6/6/2025 12:25:29
Q2191-04DLX10	S	Ammonia-N P	0.7789 mg/l	6/6/2025 12:25:32
Q2203-01DLX5	S	Ammonia-N P	1.0623 mg/l	6/6/2025 12:25:33
Q2203-01DUPDLX5	S	Ammonia-N P	1.0516 mg/l	6/6/2025 12:25:35
Q2203-04DLX5	S	Ammonia-N P	1.005 mg/l	6/6/2025 12:25:37
CCV5	S	Ammonia-N P	1.0312 mg/l	6/6/2025 12:25:40
CCB5	S	Ammonia-N P	0.0344 mg/l	6/6/2025 12:30:24

LB:LB136039

Calibration results

Aquakem 7.2AQ1

Page:

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

Reviewed by : <u>RM</u> Instrument ID : Konelab

6/6/2025 10:03

Test Ammonia-N

Accepted

6/6/2025

10:03

Factor

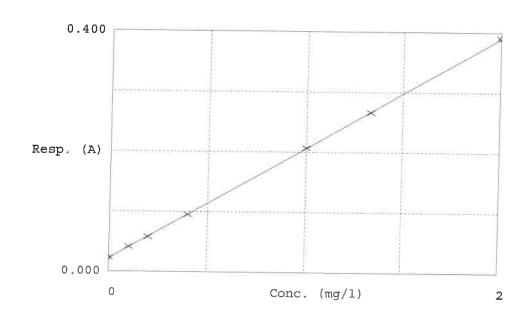
5.44

Bias

0.022

Coeff. of det. 0.999951

Errors



	Calibrator	Response	Calc. con.	Conc.	Errors
1 2 3 4 5 6 7	0.00PPM NH3-2PPM NH3-2PPM NH3-2PPM NH3-2PPM NH3-2PPM NH3-2PPM	0.023 0.041 0.058 0.095 0.207 0.266 0.390	0.0043 0.1045 0.1939 0.3962 1.0043 1.3267 2.0034	0.0000 0.1000 0.2000 0.4000 1.0000 1.3333 2.0000	4.5 -3.1 -1.0 0.4 2.1



### Extraction and Analytical Summary Report

Analysis Method: 1664A

Test: Oil and Grease

Run Number: LB136056

Analysis Date: 06/09/2025

BalanceID: WC SC-6

OvenID: EXT OVEN-3

**ANALYST:** jignesh

REVIEWED BY: Iwona

Extraction Date: 06/09/2025

Extration IN Time:  $\overline{11:10}$ 

Extraction IN Time:  $\frac{11.10}{12:10}$ 

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

Dish #	Lab ID	Client ID	Matrix	рН	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	LB136056BL	LB136056BL	WATER	1.3	1000	100	2.7453	2.7453	0	2.7454	2.7454	0.0001	0.1
2	LB136056BS	LB136056BS	WATER	1.3	1000	100	3.1487	3.1487	0	3.1656	3.1656	0.0169	16.9
3	Q2191-01	EFFLUENT	WATER	1.6	1000	100	3.0394	3.0394	0	3.1102	3.1102	0.0708	70.8
4	Q2191-02	Q2191-01MS	WATER	1.6	1000	100	2.4746	2.4746	0	2.5654	2.5654	0.0908	90.8
5	Q2191-03	Q2191-01MSD	WATER	1.6	1000	100	2.9871	2.9871	0	3.0780	3.0780	0.0909	90.9
6	Q2203-01	001-WILLETS-PT-BLVD(JU	WATER	1.6	1000	100	3.0561	3.0561	0	3.0882	3.0882	0.0321	32.1
7	Q2203-04	002-35TH-AVE (JUNE)	WATER	1.6	1000	100	3.0249	3.0249	0	3.0596	3.0596	0.0347	34.7
8	Q2243-02	WATER-TREATMENT-DISCHA	WATER	1.6	1000	100	3.0555	3.0555	0	3.0594	3.0594	0.0039	3.9
9	Q2243-03	Q2243-02MS	WATER	1.6	1000	100	3.1581	3.1581	0	3.1820	3.1820	0.0239	23.9
10	Q2243-04	Q2243-02MSD	WATER	1.6	1000	100	3.1403	3.1403	0	3.1646	3.1646	0.0243	24.3



QC Batch# LB136056

Test: Oil and Grease

**Analysis Date:** 06/09/2025

### Chemicals Used:

Chemical Name	Chemical Lot #				
HEXANE	W3204				
pH Paper 0-14	М6069				
Sodium Sulfate	EP2620				
1:1 HCL	WP112782				
Silica Gel	NA				
Sand	NA				

### Standards Used:

Standard Name	Amount Used	Standard Lot #		
LCSW	2.5 ML	WP112783		
LCSWD	NA	NA		
MS/MSD	2.5 ML	WO112784		

### 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 : 13:46

1.0000 gram Balance: 1.0004 (0.9950-1.0050) In Time1: 13:00

Bal Check Time: 11:15 Out OVEN TEMP1: 71 °C Dessicator Time Out1: 14:25

Out Time1: 13:45

### After Analysis

0.0020 gram Balance: 0.0021 (0.0018-0.0022) In OVEN TEMP2 : 71 °C Dessicator Time In2 : 15:31

1.0000 gram Balance: 1.0003 (0.9950-1.0050) In Time2: 15:00

Bal Check Time: 16:15 Out OVEN TEMP2: 71 °C Dessicator Time Out2: 16:10

Out Time2: 15:30

Reviewed By:Iwona On:6/10/2025 1:32:25 PM Inst Id :WC SC-3 LB :LB136056

Collect Date Method

Raw Sample

Customer

Preservative

Test

Matrix

**Customer Sample** 

Sample

OIL & GREASE Q2243

WorkList Name:

Location Storage

1664A 1664A 1664A 1664A

06/03/2025

06/03/2025 1664A

L31 53 L31

HOLL01

Conc H2SO4 to pH < 2 Conc H2SO4 to pH < 2 Conc H2SO4 to pH < 2

Oil and Grease Oil and Grease Oil and Grease

Water

Water Water 1664A

¥ 1

VERI01 VERI01

Conc H2SO4 to pH < 2

1664A 1664A

36/05/2025

N41 N41

06/05/2025 06/05/2025

06/03/2025 06/03/2025

N31

TULL01

Conc H2SO4 to pH < 2

HOLL01 HOLL01

N31

TULL01 VERI01

Conc H2SO4 to pH < 2

Oil and Grease Oil and Grease

Water Water Water

WATER-TREATMENT-DISCHA

Oil and Grease Oil and Grease

Water

Q2243-02MSD

Q2243-04

Q2243-02MS

Q2243-03

Oil and Grease

Water

001-WILLETS-PT-BLVD(JUNE)

9 Š

Q2191-01MSD

Q2191-01MS

Q2191-02 Q2191-03 Q2203-01

EFFLUENT

Q2191-01 F

002-35TH-AVE(JUNE)

Q2203-04 Q2243-02

Conc H2SO4 to pH < 2 Conc H2SO4 to pH < 2

06/03/2025

~ 0	Date: 06-09-2025 10:46:50
190961 90	Date:
hain)	Wet-Chemistry
py Internal C	Department:
WORKLIST(Hardco	: 190040
<b>&gt;</b>	WorkList ID :

Date/Time  $O(10 q/\lambda)$ Raw Sample Received by:

Raw Sample Relinquished by:

Page 1 of 1

06/09/15 11:00

Date/Time

Raw Sample Received by:

Raw Sample Relinquished by:



### **Water Ammonia Preparation Sheet**



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

SDG No : N/A Start Digest Date: 06/05/2025 Time : 13:50 Temp : 150 °C

 Matrix :
 WATER
 End Digest Date:
 06/05/2025
 Time : 14:50
 Temp : 160 °C

 Pippete ID :
 WC
 II b etch
 06/05/2025
 15:05
 15:06

Balance ID: N/A 16.15

Hood ID: HOOD#2 Digestion tube ID: M5595 Block Thermometer ID: WC CYANIDE

Block ID: WC-DIST-BLOCK-1 Filter paper ID: N/A Prep Technician Signature:

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

Standared Name	MLS USED	STD REF. # FROM LOG	
LCSW	1.0ML	WP112987	
MS/MSD SPIKE SOL.	1.0ML	WP112986	
PBW	50.0ML	W3112	
RL CHECK	0.1ML	WP112986	
LOD	0.8ML	WP113415	

Chemical Used	ML/SAMPLE USED	Lot Number
BORATE BUFFER	2.5ML	WP111325
NAOH 6N	1.0ML-5.0ML	WP111325 WP111318
H2SO4 0.04N	5.0ML	WP112828
pH strip-Ammonia	N/A	W3133
KI-starch paper	N/A	W3155
N/A	N/A	N/A
V/A	N/A	N/A
V/A	N/A	N/A
V/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 WP111604.LOQ WP113415 1.0ML.Due to bad matrix and client history 1ML was taken as an initial volume for \$\infty 141 - 0\infty 704

RM

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
06/05/2025 16:30	RM CWC	RIM CWC)
	Preparation Group	Analysis Group



Lab Sample ID	Client Sample ID	Initial Vol	Final Vol	рН	Sulfide	Oxldizing	Nitrate/ Nitrite	Comment	Prep
PB168326BL	PBW326	50	50	<2	N/A	Negative	N/A	AFTER ADDING 6N NAOH PH IS 9.5	N/A
PB168326BS	LCS326	50	50	<2	N/A	Negative	N/A	AFTER ADDING 6N NAOH PH IS 9.5	N/A
Q2126-07	LOD-MDL-WATER-01-QT2-20 25	50	50	<2	N/A	Negative	N/A	AFTER ADDING 6N NAOH PH IS 9.5	N/A
Q2126-08	LOQ-WATER-02-QT2-2025	50	50	<2	N/A	Negative	N/A	AFTER ADDING 6N NAOH PH IS 9.5	N/A
Q2191-01	EFFLUENT	1	50	<2	N/A	Negative	N/A	AFTER ADDING 6N NAOH PH IS 9.5	N/A
Q2191-04	AERATION-1	1	50	<2	N/A	Negative	N/A	AFTER ADDING 6N NAOH PH IS 9.5	N/A
22203-01	001-WILLETS-PT-BLVD(JUNE)	50	50	<2	N/A	Negative	N/A	AFTER ADDING 6N NAOH PH IS 9.5	N/A
2203-01DUP	001-WILLETS-PT-BLVD(JUNE) DUP	50	50	<2	N/A	Negative	N/A	AFTER ADDING 6N NAOH PH IS 9.5	N/A
2203-01MS	001-WILLETS-PT-BLVD(JUNE) MS	50	50	<2	N/A	Negative		AFTER ADDING 6N NAOH PH IS 9.5	N/A
2203-01MSD	001-WILLETS-PT-BLVD(JUNE) MSD	50	50	<2	N/A	Negative		AFTER ADDING 6N NAOH PH IS 9.5	N/A
2203-04	002-35TH-AVE(JUNE)	50	50	<2	N/A	Negative	N/A	AFTER ADDING 6N NAOH PH IS 9.5	N/A
2243-01	WATER-TREATMENT-DISCHAR GE	50	50	<2	N/A	Negative	110	AFTER ADDING 6N NAOH PH IS 9.5	N/A

# WORKLIST (Hardcopy Internal Chain)

WorkList Name: ammonia-6-5

WorkList ID: 189998

Department: Distillation

				Department: Distillation	ation	Date	Date: 06-05-2025 11:09:15	25 11:09:15
Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date Method	Method
Q2126-07	LOD-MDI -WATER-01-OT2 202 Wester	Meter						
20,000	707-718-10-10-10-10-10-10-10-10-10-10-10-10-10-	water	Ammonia	Conc H2SO4 to pH < 2	ALL103	OAC	OFISSISSOR	
WZ1Z6-08	LOQ-WATER-02-QT2-2025	Water	Ammonia	The state of the s		3	03/23/2025	U3/23/2025 SM4500-NH3
Q2191-01	FEFF			COILC 72504 to pH < 2	ALLI03	QAO	05/23/2025	05/23/2025 SM4500-NH3
		Water	Ammonia	Conc H2SO4 to pH < 2	20.100			
Q2191-04	AERATION-1	Water	A see see 5.	7 12 00 100 11 11 11 11 11 11 11 11 11 11 11	HOLLUI	L31	06/03/2025	06/03/2025 SM4500-NH3
20000		-1	Ammonia	Canc H2SO4 to pH < 2	HOLL01	131	08/03/2025	
-42203-01	001-WILLETS-PT-BLVD(JUNE)	Water	Ammonia				00/03/2023	00/03/2023 SIM4500-NH3
Q2203-04	002-35TH_AVE/11/NE			Collic n2504 to pH < 2	TULL01	N31	06/03/2025	06/03/2025 SM4500-NH3
	SOE SOUTHWE(SOINE)	Water	Ammonia	Conc H2SOA to BH / D	20   F			
Q2243-01	WATER-TREATMENT-DISCHAL WATER	14/2422		2 > Hd 01 +00211 51150	I OLLO1	N31	06/03/2025	06/03/2025 SM4500-NH3
	VIDOG NIE	water	Ammonia	Conc H2SO4 to pH < 2	VERI01	N41	06/05/2025	06/05/0005
							0707/00/00	0M4500-NH3

06/05/2025 SM4500-NH3

Date/Time 06/05/2075

Date/Time 06/05/2025

Raw Sample Relinquished by: Raw Sample Received by:

Raw Sample Received by:

Raw Sample Relinquished by:

Page 1 of 1



**Instrument ID:** DO METER

Review By	rub	ubina Review On		6/10/2025 9:56:23 AM			
Supervise By	lwc	ona	Supervise On	6/10/2025 9:56:32 AM			
SubDirectory	LB	136002	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		WP113377,W3149,WP1	112832,W3103,W3109,W3105,WP1133	80,WP113379,WP111323			

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	LB136002BL	LB136002BL	MB	06/04/25 16:25		rubina	ок
2	LB136002BS	LB136002BS	LCS	06/04/25 16:25		rubina	ОК
3	Q2191-01	EFFLUENT	SAM	06/04/25 16:25	Due to bad matrix difference between highest and lowest results is >30%	rubina	ОК
4	Q2197-01	DSN002	SAM	06/04/25 16:25		rubina	ок
5	Q2197-03	DSN001	SAM	06/04/25 16:25		rubina	ОК
6	Q2197-05	DSN003	SAM	06/04/25 16:25		rubina	ОК
7	Q2197-05DUP	DSN003DUP	DUP	06/04/25 16:25		rubina	ок
8	Q2203-01	001-WILLETS-PT-BL\	SAM	06/04/25 16:25		rubina	ок
9	Q2203-04	002-35TH-AVE(JUNE	SAM	06/04/25 16:25		rubina	ок



**Instrument ID:** WC SC-3

Review By	Review By jignesh		Review On	6/5/2025 12:29:31 PM
Supervise By	upervise By Iwona		Supervise On	6/5/2025 12:57:49 PM
SubDirectory	LB′	136013	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#	Sampleld	ClientID	QcType	Date	Comment	Operator	Status
1	LB136013BL	LB136013BL	MB	06/05/25 10:00		jignesh	ОК
2	LB136013BS	LB136013BS	LCS	06/05/25 10:00	55mg W3186+100mL W3112	jignesh	ок
3	Q2191-01	EFFLUENT	SAM	06/05/25 10:00		jignesh	ок
4	Q2191-04	AERATION-1	SAM	06/05/25 10:00		jignesh	ОК
5	Q2196-01	TOWERS-1	SAM	06/05/25 10:00		jignesh	ОК
6	Q2196-02	TOWERS-2	SAM	06/05/25 10:00		jignesh	ок
7	Q2197-01	DSN002	SAM	06/05/25 10:00		jignesh	ОК
8	Q2197-03	DSN001	SAM	06/05/25 10:00		jignesh	ОК
9	Q2197-05	DSN003	SAM	06/05/25 10:00		jignesh	ок
10	Q2197-05DUP	DSN003DUP	DUP	06/05/25 10:00		jignesh	ОК
11	Q2203-01	001-WILLETS-PT-BL\	SAM	06/05/25 10:00		jignesh	ОК
12	Q2203-04	002-35TH-AVE(JUNE	SAM	06/05/25 10:00		jignesh	ок
13	Q2205-01	001-WILLETS-PT-BL\	SAM	06/05/25 10:00		jignesh	ок
14	Q2205-02	002-35TH-AVE(MAY)	SAM	06/05/25 10:00		jignesh	ОК



**Instrument ID:** KONELAB

Review By	rub	ina	Review On	6/6/2025 1:49:03 PM
Supervise By	lwo	ona	Supervise On	6/6/2025 1:50:40 PM
SubDirectory	LB	136039	Test	Ammonia
STD. NAME		STD REF.#		
ICAL Standard		WP113425		
ICV Standard		WP113427		
CCV Standard		WP113426		
ICSA Standard	ICSA Standard N/A			
CRI Standard N/A				
LCS Standard WP112987				
Chk Standard WP113429,WP111745,WP111385,WP111660,WP113415,		WP111385,WP111660,WP113415,WP1	13428	

Sr#	Sampleld	ClientID	QcType	Date	Comment	Operator	Status
1	0.0PPM	0.0PPM	CAL1	06/06/25 09:55		rubina	ОК
2	0.1PPM	0.1PPM	CAL2	06/06/25 09:55		rubina	ОК
3	0.2PPM	0.2PPM	CAL3	06/06/25 09:55		rubina	ОК
4	0.4PPM	0.4PPM	CAL4	06/06/25 09:55		rubina	ОК
5	1.0PPM	1.0PPM	CAL5	06/06/25 09:55		rubina	ОК
6	1.3PPM	1.3PPM	CAL6	06/06/25 09:55		rubina	ОК
7	2.0PPM	2.0PPM	CAL7	06/06/25 09:56		rubina	ОК
8	ICV1	ICV1	ICV	06/06/25 11:16		rubina	ОК
9	ICB1	ICB1	ICB	06/06/25 11:16		rubina	ОК
10	CCV1	CCV1	CCV	06/06/25 11:16		rubina	ОК
11	CCB1	CCB1	ССВ	06/06/25 11:16		rubina	ОК
12	RL	RL	SAM	06/06/25 11:16		rubina	ОК
13	PB168326BL	PB168326BL	MB	06/06/25 11:16		rubina	ОК
14	PB168326BS	PB168326BS	LCS	06/06/25 11:26		rubina	ОК
15	Q2126-07	LOD-MDL-WATER-01	SAM	06/06/25 11:26		rubina	ОК
16	Q2126-08	LOQ-WATER-02-QT2	LOQ	06/06/25 11:27		rubina	ОК
17	Q2191-01	EFFLUENT	SAM	06/06/25 11:27	High	rubina	Dilution
18	Q2191-04	AERATION-1	SAM	06/06/25 11:27	High	rubina	Dilution



**Instrument ID:** KONELAB

Review By	rubi	ina	Review On	6/6/2025 1:49:03 PM
Supervise By	lwo	na	Supervise On	6/6/2025 1:50:40 PM
SubDirectory	LB1	36039	Test	Ammonia
STD. NAME		STD REF.#		
ICAL Standard		WP113425		
ICV Standard		WP113427		
CCV Standard		WP113426		
ICSA Standard		N/A		
CRI Standard N/A				
LCS Standard WP112987				
Chk Standard WP113429,WP111745,V		VP111385,WP111660,WP113415,WP1	13428	

					-		
19	Q2203-01	001-WILLETS-PT-BL\	SAM	06/06/25 11:27	High	rubina	Dilution
20	Q2203-01DUP	001-WILLETS-PT-BL\	DUP	06/06/25 11:27	High	rubina	Dilution
21	Q2203-01MS	001-WILLETS-PT-BL\	MS	06/06/25 11:27		rubina	ок
22	CCV2	CCV2	CCV	06/06/25 11:37		rubina	ОК
23	CCB2	CCB2	ССВ	06/06/25 11:37		rubina	ОК
24	Q2203-01MSD	001-WILLETS-PT-BL\	MSD	06/06/25 11:37		rubina	ок
25	Q2203-04	002-35TH-AVE(JUNE	SAM	06/06/25 11:37	High	rubina	Dilution
26	Q2243-01	WATER-TREATMENT	SAM	06/06/25 11:37		rubina	ОК
27	RL	RL	SAM	06/06/25 11:37		rubina	ок
28	PB168328BL	PB168328BL	МВ	06/06/25 11:37		rubina	ОК
29	PB168328BS	PB168328BS	LCS	06/06/25 11:48		rubina	ок
30	Q2085-04	SC-1-SED-051625	SAM	06/06/25 11:48		rubina	ок
31	Q2085-04DUP	SC-1-SED-051625DU	DUP	06/06/25 11:48		rubina	ОК
32	Q2085-04MS	SC-1-SED-051625MS	MS	06/06/25 11:48		rubina	ОК
33	Q2085-04MSD	SC-1-SED-051625MS	MSD	06/06/25 11:48		rubina	ОК
34	CCV3	CCV3	CCV	06/06/25 11:48		rubina	ОК
35	CCB3	CCB3	ССВ	06/06/25 11:58		rubina	ОК
36	Q2126-01	LOD-MDL-SOIL-03-Q	SAM	06/06/25 11:58		rubina	ок
37	Q2126-02	LOQ-SOIL-02-QT2-20	LOQ	06/06/25 11:58		rubina	ок
38	CCV4	CCV4	CCV	06/06/25 11:58		rubina	ок



**Instrument ID:** KONELAB

Review By	rubina	Review On	6/6/2025 1:49:03 PM	
Supervise By	Iwona	Supervise On	6/6/2025 1:50:40 PM	
SubDirectory	LB136039	Test	Ammonia	
STD. NAME	STD REF.#			
ICAL Standard	WP113425			
ICV Standard	WP113427			
CCV Standard	WP113426			
ICSA Standard	N/A			
CRI Standard	N/A			
LCS Standard	WP112987			
Chk Standard WP113429,WP111745,WP111385,WP11166		1745,WP111385,WP111660,WP1134	5,WP113428	

39	CCB4	CCB4	ССВ	06/06/25 11:58		rubina	ок
40	Q2191-01DL	EFFLUENTDL	SAM	06/06/25 12:25	Report 10X	rubina	Confirms
41	Q2191-04DL	AERATION-1DL	SAM	06/06/25 12:25	Report 10X	rubina	Confirms
42	Q2203-01DL	001-WILLETS-PT-BL\	SAM	06/06/25 12:25	Report 5X	rubina	Confirms
43	Q2203-01DUPDL	001-WILLETS-PT-BL\	DUP	06/06/25 12:25	Report 5X	rubina	Confirms
44	Q2203-04DL	002-35TH-AVE(JUNE	SAM	06/06/25 12:25	Report 5X	rubina	Confirms
45	CCV5	CCV5	CCV	06/06/25 12:25		rubina	ОК
46	CCB5	CCB5	ССВ	06/06/25 12:30		rubina	ОК



**Instrument ID:** WC SC-3

Review By jignesh		Review On	6/9/2025 4:32:26 PM	
Supervise By	lwo	na	Supervise On	6/10/2025 1:32:25 PM
SubDirectory	LB1	136056	Test	Oil and Grease
STD. NAME		STD REF.#		
ICAL Standard		N/A		
ICV Standard		N/A		
CCV Standard		N/A		
ICSA Standard	ICSA Standard N/A			
CRI Standard N/A				
LCS Standard N/A				
Chk Standard W3204,M6069,EP2620,WP112782,NA,NA,WP112783,NA,WO			WP112782,NA,NA,WP112783,NA,WO	112784

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	LB136056BL	LB136056BL	МВ	06/09/25 13:00		jignesh	ок
2	LB136056BS	LB136056BS	LCS	06/09/25 13:00		jignesh	ок
3	Q2191-01	EFFLUENT	SAM	06/09/25 13:00		jignesh	ОК
4	Q2191-02	Q2191-01MS	MS	06/09/25 13:00		jignesh	ОК
5	Q2191-03	Q2191-01MSD	MSD	06/09/25 13:00		jignesh	ок
6	Q2203-01	001-WILLETS-PT-BL\	SAM	06/09/25 13:00		jignesh	ОК
7	Q2203-04	002-35TH-AVE(JUNE	SAM	06/09/25 13:00		jignesh	ОК
8	Q2243-02	WATER-TREATMENT	SAM	06/09/25 13:00		jignesh	ок
9	Q2243-03	Q2243-02MS	MS	06/09/25 13:00		jignesh	ок
10	Q2243-04	Q2243-02MSD	MSD	06/09/25 13:00		jignesh	ОК



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

8900, Fax: 908 789 8922

### **Prep Standard - Chemical Standard Summary**

Order ID	:	Q2203
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Test: Ammonia,BOD5,Oil and Grease,TSS

Prepbatch ID: PB168326,

Sequence ID/Qc Batch ID: LB136002,LB136013,LB136039,LB136056,

### Standard ID:

EP2620,WP111317,WP111318,WP111323,WP111325,WP111385,WP111660,WP111745,WP112611,WP112612,WP112782,WP112783,WP112828,WP112832,WP112986,WP112987,WP113377,WP113379,WP113380,WP113415,WP113425,WP113426,WP113427,WP113428,WP113429,

### Chemical ID:

E3551,E3917,M6041,M6069,M6151,W2653,W2654,W2666,W2700,W2817,W2858,W2871,W3103,W3105,W3109,W3112,W3113,W3132,W3133,W3144,W3149,W3155,W3174,W3195,W3196,W3204,W3212,WO112784,



### **Extractions STANDARD PREPARATION LOG**

Recipe ID	NAME.	NO.	Prep Date	Expiration Date	Prepared By	<u>ScaleID</u>	<u>PipetteID</u>	Supervised By Riteshkumar Patel
3923	Baked Sodium Sulfate	EP2620	05/30/2025	07/01/2025	RUPESHKUMA	Extraction_SC	None	
					R SHAH	ALE_2		05/30/2025
	4000 00000 man of F3551 — Final C		00.000		-	(EX-SC-2)		

<b>FROM</b> 4000.0000gram of	E3551 = Final Quantity: 4	1000.000 gram
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1796 NaOH, 0.1N WP111317 01/09/2025 07/09/2025 Rubina Mughal WETCHEM_S None	Recipe ID	NAME	<u>NO.</u>	Prep Date	Expiration Date	Prepared By	<u>ScaleID</u>	<u>PipettelD</u>	Supervised By Iwona Zarvch
CALE_7 (WC 01/09/20	1796	NaOH, 0.1N	WP111317	01/09/2025	07/09/2025	Rubina Mughal	CALE_7 (WC	None	01/09/2025

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



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# Wet Chemistry STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	<u>ScaleID</u>	<u>PipetteID</u>	Supervised By Iwona Zarych
1471	NaOH Solution, 6N	WP111318	01/09/2025	07/09/2025	Rubina Mughal	WETCHEM_S	None	IWOIIA Zaryon
						CALE_7 (WC		01/09/2025
EDOM	240 00000gram of W3113 ± 760 000	00ml of \\/3	112 - Final O	uantity: 1000 C	100 ml	SC-6)		

FROM	240.00000gram of W3113 + 760.00000ml of W3112 = Final Quantity: 1000.000 ml
------	---

Recipe				Expiration	<u>Prepared</u>			Supervised By
<u>ID</u>	<u>NAME</u>	NO.	Prep Date	<u>Date</u>	<u>By</u>	<u>ScaleID</u>	<u>PipetteID</u>	lwona Zarych
1571	Sodium hydroxide, 1N	WP111323	01/09/2025	07/09/2025	Rubina Mughal	WETCHEM_S	None	
						CALE_8 (WC		01/09/2025

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



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# Wet Chemistry STANDARD PREPARATION LOG

Recipe ID	NAME_	NO.	Prep Date	Expiration Date	Prepared By	<u>ScaleID</u>	<u>PipetteID</u>	Supervised By Iwona Zarych
1494	BORATE BUFFER	WP111325	01/09/2025	07/09/2025	Rubina Mughal	WETCHEM_S	None	-
						CALE_5 (WC		01/09/2025
FROM	100.00000L of W3112 + 9.50000gran	n of W2700	+ 88.00000m	l of WP111317	= Final Quantit	<del>SC-5)</del> y: 100.000 L		

Recipe	NAME	No	D D. 4.	Expiration	<u>Prepared</u>	01-10	D: #- ID	Supervised By
<u>ID</u>	NAME	<u>NO.</u>	Prep Date	<u>Date</u>	<u>By</u>	<u>ScaleID</u>	<u>PipetteID</u>	Iwona Zarych
290	Phenol reagent for Ammonia	WP111385	01/13/2025	07/13/2025	Rubina Mughal	WETCHEM_S	None	
						CALE_8 (WC		01/13/2025

FROM 3.20000gram of W3113 + 8.30000gram of W2858 + 88.80000ml of W3112 = Final Quantity: 100.000 ml



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# Wet Chemistry STANDARD PREPARATION LOG

Recipe ID	NAME_	NO.	Prep Date	Expiration Date	Prepared By	<u>ScaleID</u>	<u>PipetteID</u>	Supervised By Iwona Zarych
635	EDTA BUFFER FOR AMMONIA	WP111660	01/28/2025	07/28/2025	Rubina Mughal	_	None	·
						CALE_8 (WC		01/28/2025
						SC-7)		

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

Recipe				<b>Expiration</b>	<u>Prepared</u>			Supervised By
<u>ID</u>	<u>NAME</u>	NO.	Prep Date	<u>Date</u>	<u>By</u>	<u>ScaleID</u>	<u>PipetteID</u>	Iwona Zarych
289	Sodium Hypochlorite for Ammonia	WP111745	02/03/2025	07/31/2025	Rubina Mughal	None	None	,
								02/03/2025

**FROM** 50.00000ml of W3112 + 50.00000ml of W3174 = Final Quantity: 100.000 ml



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# Wet Chemistry STANDARD PREPARATION LOG

Recipe				Expiration	Prepared			Supervised By
<u>ID</u>	NAME	NO.	Prep Date	<u>Date</u>	<u>By</u>	<u>ScaleID</u>	<u>PipetteID</u>	Iwona Zarych
153	Ammonia Stock Std. (1000 ppm)	WP112611	04/07/2025	10/07/2025	Rubina Mughal	WETCHEM_S	None	·
						CALE_8 (WC		04/07/2025
FROM	3 81900gram of W3196 + 996 18100	ml of W3112	2 = Final Qua	ntity: 1000 000	) ml	SC-7)		

 -		•	

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

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



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# Wet Chemistry STANDARD PREPARATION LOG

Recipe ID	NAME	<u>NO.</u>	Prep Date	Expiration Date	Prepared By	<u>ScaleID</u>	<u>PipetteID</u>	Supervised By Iwona Zarych
229	1:1 HCL	WP112782	04/22/2025	08/18/2025	Jignesh Parikh	None	None	, , ,
								04/22/2025

<b>FROM</b>	500.00000ml of M6151 + 500.00000ml of W3112 = Final Quantity: 1.000 L
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Recipe				<u>Expiration</u>	<u>Prepared</u>			Supervised By
<u>ID</u>	NAME	NO.	Prep Date	<u>Date</u>	<u>By</u>	<u>ScaleID</u>	<u>PipetteID</u>	Iwona Zarych
2470	1664A SPIKING SOLN	WP112783	04/22/2025	10/03/2025	Jignesh Parikh	WETCHEM_S	None	ļ
						CALE_8 (WC		04/22/2025

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



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# Wet Chemistry STANDARD PREPARATION LOG

<u> </u>	Recipe				Expiration	Prepared			Supervised By
	<u>ID</u>	NAME	<u>NO.</u>	Prep Date	<u>Date</u>	<u>By</u>	<u>ScaleID</u>	<u>PipetteID</u>	Iwona Zarych
	1597	0.04 N H2SO4	WP112828	04/25/2025	10/25/2025	Rubina Mughal	None	WETCHEM_F	1
								IPETTE_3	04/25/2025
] !	FROM.	1.00000ml of M6041 + 999.0000ml	of W3112 =	Final Quanti	ty: 1000.000 n	nl		(VVC)	

Recipe				Expiration	<u>Prepared</u>			Supervised By
<u>ID</u>	<u>NAME</u>	<u>NO.</u>	Prep Date	<u>Date</u>	<u>By</u>	<u>ScaleID</u>	<u>PipetteID</u>	Iwona Zarych
1841	Sulfuric Acid, 1N	WP112832	04/25/2025	10/25/2025	Rubina Mughal	None	WETCHEM_F	
							IPETTE_3	04/25/2025

**FROM** 2.80000ml of M6041 + 97.20000ml of W3112 = Final Quantity: 100.000 ml



Fax: 908 789 8922

# Wet Chemistry STANDARD PREPARATION LOG

Recipe ID	<u>NAME</u>	NO.	Prep Date	Expiration Date	Prepared By	<u>ScaleID</u>	<u>PipetteID</u>	Supervised By Iwona Zarych
1322	Ammonia Intermediate Std, 50PPM	<u>WP112986</u>	05/07/2025	06/07/2025	Rubina Mughal	None	WETCHEM_F IPETTE_3	05/07/2025
EDOM	05 00000ml of W3112 ± 5 00000ml o	f \MD112611	- Final Oua	ntity: 100 000	ml		(WC)	

FRON	33.000001111 01 773 112 1	3.000001111 01 1111	112011 - 11	iai Quaritity. 10	0.000 1111

Recipe ID	NAME.	<u>NO.</u>	Prep Date	Expiration Date	Prepared By	<u>ScaleID</u>	<u>PipettelD</u>	Supervised By Iwona Zarych
1639	Ammonia Intermediate Std-Second source, 50PPM	<u>WP112987</u>	05/07/2025	06/07/2025	Rubina Mughal	None	WETCHEM_F IPETTE_3	05/07/2025

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



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# Wet Chemistry STANDARD PREPARATION LOG

Recipe ID	NAME	<u>NO.</u>	Prep Date	Expiration Date	Prepared By	<u>ScaleID</u>	<u>PipetteID</u>	Supervised By  Jignesh Parikh
127	BOD Dilution fluid	WP113377	06/04/2025	06/05/2025	Rubina Mughal	None	None	3 3 3
								06/05/2025

FROM	18.00000L of W3112 + 3.00000PILLOW of W3144 = Final Quantity: 18.000 L
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Recipe ID	<u>NAME</u>	<u>NO.</u>	Prep Date	Expiration Date	Prepared By	<u>ScaleID</u>	<u>PipettelD</u>	Supervised By  Jignesh Parikh
129	Glutamic acid-glucose mix for BOD	<u>WP113379</u>	06/04/2025	06/05/2025	Rubina Mughal	WETCHEM_S CALE_7 (WC	None	06/05/2025

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



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# Wet Chemistry STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	<u>ScaleID</u>	<u>PipetteID</u>	Supervised By  Jignesh Parikh
128	polyseed seed control	WP113380	06/04/2025	06/05/2025	Rubina Mughal	None	None	J
								06/05/2025

FROM	1.00000PILLOW of W3212 + 300.00000ml of WP113377 = Final Quantity: 300.000 ml
------	---

Recipe ID	NAME	<u>NO.</u>	Prep Date	Expiration Date	Prepared By	ScaleID	<u>PipetteID</u>	Supervised By Jignesh Parikh
3906	Ammonia MDL-LOD-LOQ spiking solution -5ppm	<u>WP113415</u>	06/05/2025	06/06/2025	Rubina Mughal	None	WETCHEM_F IPETTE_3 (WC)	J

**FROM** 45.00000ml of W3112 + 5.00000ml of WP112986 = Final Quantity: 50.000 ml



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# Wet Chemistry STANDARD PREPARATION LOG

Recipe ID	NAME	NO	Prep Date	<u>Expiration</u>	<u>Prepared</u>	SocialD	DinettelD	Supervised By
<u>                                    </u>	NAME	NO.	Prep Date	<u>Date</u>	<u>By</u>	<u>ScaleID</u>	<u>PipetteID</u>	Jignesh Parikh
275	Ammonia Calibration Std. (2 ppm)	WP113425	06/06/2025	06/07/2025	Rubina Mughal	None	WETCHEM_F	1
							IPETTE_3	06/06/2025
FROM	48.00000ml of W3112 + 2.00000ml o	of WP112986	6 = Final Qua	ntity: 50.000 r	nl		(WC)	

Recipe ID	NAME	<u>NO.</u>	Prep Date	Expiration Date	Prepared By	<u>ScaleID</u>	<u>PipetteID</u>	Supervised By  Jignesh Parikh
285	Ammonia CCV Std. (1 ppm)	<u>WP113426</u>	06/06/2025	06/07/2025	Rubina Mughal	None	WETCHEM_F IPETTE_3	06/06/2025

**FROM** 49.00000ml of W3112 + 1.00000ml of WP112986 = Final Quantity: 50.000 ml



Fax: 908 789 8922

# Wet Chemistry STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	<u>ScaleID</u>	<u>PipettelD</u>	Supervised By  Jignesh Parikh
286	Ammonia ICV Std. (1 ppm)	<u>WP113427</u>	06/06/2025	06/07/2025	Rubina Mughal	None	WETCHEM_F IPETTE_3	ŭ
FROM	49.00000ml of W3112 + 1.00000ml o	of WP112987	7 = Final Qua	ntity: 50.000 r	nl		<del>' (WC)</del>	

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	<u>ScaleID</u>	<u>PipetteID</u>	Supervised By Jignesh Parikh
3906	Ammonia MDL-LOD-LOQ spiking solution -5ppm	<u>WP113428</u>	06/06/2025	06/07/2025	Rubina Mughal	None	WETCHEM_P IPETTE_3 (WC)	06/06/2025

**FROM** 45.00000ml of W3112 + 5.00000ml of WP112986 = Final Quantity: 50.000 ml





# Wet Chemistry STANDARD PREPARATION LOG

Recipe ID 740	NAME sodium nitroferricyanide for ammonia	<u>NO.</u> WP113429	Prep Date 06/06/2025		Prepared By Iwona Zarych	CALE_5 (WC	PipettelD None	Supervised By Jignesh Parikh 06/06/2025
FROM	0.05000gram of W2666 + 99.95000m	of W3112	= Final Quan	ntity: 100.000 n	nl	SC-5)		



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	313201	12/04/2025	01/03/2024 / Rajesh	07/20/2023 / Rajesh	E3551
Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9254-03 / Acetone, Ultra Resi (cs/4x4L)	24H2762008	10/03/2025	04/03/2025 / Rajesh	03/31/2025 / Rajesh	E3917
Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9673-33 / Sulfuric Acid, Instra-Analyzed (cs/6c2.5L)	23D2462010	03/20/2028	08/16/2024 / mohan	08/16/2024 / mohan	M6041
Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
DOL Calamiii:	440440 / 7507	0000444	00/00/0000	09/03/2024 /	08/19/2024 /	
PCI Scientific Supply, Inc.	140440 / TEST PAPERS,PH,0-2.5,.2SENSI, 100PK	80A0441	02/29/2028	jignesh	Jaswal	M6069
	PAPERS,PH,0-2.5,.2SENSI,	Lot #	Expiration Date			M6069  Chemtech Lot #
Supply, Inc.	PAPERS,PH,0-2.5,.2SENSI, 100PK		Expiration	jignesh  Date Opened /	Jaswal  Received Date /	Chemtech
Supply, Inc.  Supplier	PAPERS,PH,0-2.5,.2SENSI, 100PK  ItemCode / ItemName  BA-9530-33 / Hydrochloric Acid, Instra-Analyzed	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By  01/15/2025 /	Chemtech Lot #



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.	87683 / Sodium Nitroferricyanide 250g	W12F013	02/10/2030	02/10/2020 / apatel	02/10/2020 / apatel	W2666
Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	J3568-1 / Sodium Borate, 500 gms	2019111354	04/23/2025	04/23/2020 / apatel	03/11/2020 / apatel	W2700
Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date /	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 #
	P1060-10 / PHENOL,	M13H048	01/07/2026	07/07/2021 /	07/07/2021 /	14/0050
PCI Scientific Supply, Inc.	ACS, 500G			apatel	apatel	W2858
		Lot #	Expiration Date	Date Opened / Opened By	apatel  Received Date / Received By	Chemtech



Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	4620-32 / MANGANOUS SULFATE SOLUTION-364	2403J02	03/31/2026	04/22/2024 / Iwona	04/22/2024 / Iwona	W3103
Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	AL69870-8 / SODIUM THIOSULFATE,0.025N,4LIT RE	4403S13	09/30/2025	04/22/2024 / Iwona	04/22/2024 / Iwona	W3105
Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	AL04100-4 / Alkaline lodide Azide, 1 L	1405D67	04/30/2026	05/23/2024 / lwona	05/23/2024 / Iwona	W3109
Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	DIW / DI Water	Daily Lab-Certified	07/03/2029	07/03/2024 / lwona	07/03/2024 / Iwona	W3112
Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date /	Chemtech Lot #
PCI Scientific Supply, Inc.	PC19510-7 / Sodium Hydroxide Pellets 12 Kg	23B1556310	12/31/2025	07/08/2024 / Iwona	07/08/2024 / Iwona	W3113
Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	PC05050-1 / EDTA, disodium salt, dihydrate 1 lb	2ND0156	07/10/2026	07/26/2024 / Iwona	07/26/2024 / Iwona	W3132



Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	140476 / Test Paper,PH Short Range 9.0/10.0	L23	08/22/2029	08/22/2024 / Iwona	08/22/2024 / Iwona	W3133
Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
HACH	1486266 / BOD Nutrient Buffer Pillows, 6 mL concentrate to make 6 L, 50/pk	A4169	06/30/2029	11/20/2024 / rubina	10/01/2024 / Iwona	W3144
Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	AL70850-8 / Starch Solution, 4L	4408P62	08/31/2026	10/16/2024 / Iwona	10/16/2024 / Iwona	W3149
Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date /	Chemtech Lot #
PCI Scientific Supply, Inc.	140730 / TEST PAPER,POT.IOD-STRCH,P K100,CS12	14-860	12/02/2029	12/02/2024 / Iwona	12/02/2024 / Iwona	W3155
Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	J9416-1 / Sodium Hypochlorite 500 ml	2501J28	07/31/2025	01/24/2025 / Iwona	01/24/2025 / Iwona	W3174
		Lot #	Expiration Date	Date Opened / Opened By	Received Date /	Chemtech Lot #
Supplier	ItemCode / ItemName		Date	Opened by	Received by	



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 / Iwona	03/19/2025 / Iwona	W3196

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9262-03 / Hexane, Ultra-Resi (cs/4x4L)	25c0362005	04/30/2026	04/22/2025 / jignesh	04/18/2025 / jignesh	W3204

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	136742-80 / POLYSEED	132409	09/30/2026	05/21/2025 / Iwona	05/21/2025 / Iwona	W3212



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

Manufactured Date: 2020/05/05

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

# Certificate of Analysis

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

For Laboratory, Research or Manufacturing Use

Country of Origin: US

Packaging Site: Paris Mfg Ctr & DC





# Certificate of Analysis

W2858 Received by AP on 07/07/2021

Product No.: 33213

Product: Phenol, ACS, 99+%, stab.

Lot No.: M13H048

Test	Limits	Results
Assay	99.0 % min	99.8 %
Freezing point	40.5°C min	40.5 °C
Clarity of solution	To pass test	Passes
Residue after evaporation	0.05 % max	< 0.05 %
Water	0.5 % max	0.2 %

Retest date: January 7, 2026

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# Certificate of Analysis

### W2666 Recived on 02/10/2020 by AP

Product No.: 87683

Product: Sodium pentacyanonitrosylferrate(III) dihydrate, ACS,

99.0-102.0%

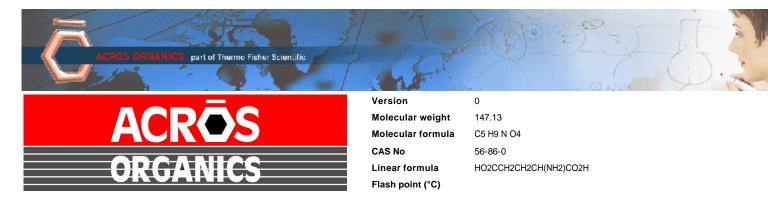
Lot No.: W12F013

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

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

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





L. Van den Broek, QA Manager

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

Issued: 24 January 2020

Thermo Fisher SCIENTIFIC

W 2817 Nec. 04/02/2021

**Product Specification** 

**Product Name:** 

Stearic acid, 98%, Thermo Scientific Chemicals

**Catalog Number:** 

A12244.14

**CAS Number:** 

57-11-4

Molecular Formula:

C18H36O2

Molecular Weight:

284.48

InChi Key:

QIQXTHQIDYTFRH-UHFFFAOYSA-N

SMILES:

CCCCCCCCCCCCC(O)=O

Synonym:

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

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

**Product Specification** 

Appearance (Color):

White

Form:

Crystals or powder or crystalline powder or flakes or waxy solid

Assay (Silylated GC):

≥97.5%

Melting Point (clear melt):

67.0-74.0?C

Date Of Print:

11/30/2023

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

## Certificate Of Analysis



Date of Release: 11/14/2019

Name: Sodium Borate, Decahydrate

ACS

Item No: **SX0355 All Sizes**Lot / Batch No: **2019111354**Country of Origin: **India** 

W2700 Recived by AP on 3/11/2020

Item	Specifications	Analysis
Assay (Na2B4O7 • 10H2O)	99.5 - 105.0%	101.7%
Calcium (Ca)	0.005% max.	0.003%
Chloride (CI)	0.001% max.	<0.001%
Color	White	Passes Test
Form	Crystals	Passes Test
Heavy Metals (as Pb)	0.001% max.	<0.001%
Insoluble Matter	0.005% max.	0.002%
Iron (Fe)	5 ppm max.	<5 ppm
pH of a 0.01 M solution at 25C	9.15 - 9.20	9.17
Phosphate (PO4)	0.001% max.	<0.001%
Sulfate (SO4)	0.005% max.	<0.005%

Joe Schoellkopff

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Quality Control Manager

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

EMD Millipore is a division of Merck KGaA, Darmstadt, Germany

**EMD Millipore Corporation** 

400 Summit Drive Burlington, MA 01803 U.S.A.

Form number: 00005624CA, Rev. 2.0

Certificate of Analysis Page 1 of 1



#### Certificate of Analysis

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

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

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

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

Derisa Bailey- Wyche

Quality Assurance Specialist - Certificate of Analysis Fair Lawn



MIRADOR 201, COL. MIRADOR MONTERREY, N.L. MEXICO CP 64070 TEL +62 81 13 52 57 57 www.pqm.com,mx

### CERTIFICATE OF ANALYSIS

PRODUCT:

SODIUM SULFATE CRYSTALS ANHYDROUS

QUALITY:

ACS (CODE RMB3375)

FORMULA:

Na<sub>2</sub>SO<sub>4</sub>

SPECIFICATION NUMBER: 6399

RELEASE DATE:

ABR/21/2023

LOT NUMBER:

313201

TEST	SPECIFICATIONS	LOT VALUES
Assay (Na <sub>2</sub> SO <sub>4</sub> )	Min. 99.0%	99.7 %
pH of a 5% solution at 25°C	5.2 - 9.2	6.1
Insoluble matter	Max. 0.01%	0.005 %
Loss on ignition	Max. 0.5%	0.1 %
Chloride (Cl)	Max. 0.001%	<0.001 %
Nitrogen compounds (as N)	Wax. 5 ppm	<5 ppm
Phosphate (PO <sub>4</sub> )	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%	0.002 %
Magnesium (Mg)	Max. 0.005%	0.001 %
Potassium (K)	Max. 0.008%	0.003 %
Extraction-concentration suitability	Passes test	Passes test
Appearance	Passes test	Passes test
Identification	Passes test	Passes test
Solubility and foreing matter	Passes test	Passes test
Retained on US Standard No. 10 sieve	Max. 1%	0.1 %
Retained on US Standard No. 60 sieve	Min. 94%	97.3 %
Through US Standard No. 60 sieve	Max. 5%	25%
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.

Recd. by Ri on 7/4/3 E 3551

RE-02-01, Del

Acetone BAKER RESI-ANALYZED® Reagent For Organic Residue Analysis



Material No.: 9254-03

Batch No.: 24H2762008

Manufactured Date: 2024-04-18

Expiration Date: 2027-04-18

Revision No.: 0

### Certificate of Analysis

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

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

Country of Origin: United States

Packaging Site: Phillipsburg Mfg Ctr & DC

Recd by RP cn 03/31/25



Director Quality Operations, Bioscience Production

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





Material No.: 9673-33

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

Retest Date: 2028-03-20

Revision No.: 0

### Certificate of Analysis

Test	Specification	Result
ACS - Assay (H2SO4)	95.0 - 98.0 %	96,1 %
Appearance	Passes Test	Passes Test
ACS - Color (APHA)	≤ 10	5
ACS – Residue after Ignition	≤ 3 ppm	< 1 ppm
ACS - Substances Reducing Permanganate (as SO2)	≤ 2 ppm	< 2 ppm
Ammonium (NH <sub>4</sub> )	≤ 1 ppm	1 ppm
Chloride (CI)	≤ 0.1 ppm	< 0.1 ppm
Nitrate (NO <sub>3</sub> )	≤ 0.2 ppm	< 0.1 ppm
Phosphate (PO <sub>4</sub> )	≤ 0.5 ppm	< 0.1 ppm
Trace Impurities – Aluminum (AI)	≤ 30.0 ppb	< 5.0 ppb
Arsenic and Antimony (as As)	≤ 4.0 ppb	< 2.0 ppb
Trace Impurities - Boron (B)	≤ 10.0 ppb	8.5 ppb
Trace Impurities – Cadmium (Cd)	≤ 2.0 ppb	< 0.3 ppb
Trace Impurities - Chromium (Cr)	≤ 6.0 ppb	< 0.4 ppb
Trace Impurities - Cobalt (Co)	≤ 0.5 ppb	< 0.3 ppb
Trace Impurities - Copper (Cu)	≤ 1.0 ppb	< 0.1 ppb
Trace Impurities - Gold (Au)	≤ 10.0 ppb	0.5 ppb
Heavy Metals (as Pb)	≤ 500.0 ppb	< 100.0 ppb
Trace Impurities - Iron (Fe)	≤ 50.0 ppb	1.3 ppb
Trace Impurities - Lead (Pb)	≤ 0.5 ppb	< 0.5 ppb
Trace Impurities - Magnesium (Mg)	≤ 7.0 ppb	0.8 ppb
Trace Impurities – Manganese (Mn)	≤ 1.0 ppb	< 0.4 ppb
Trace Impurities – Mercury (Hg)	≤ 0.5 ppb	< 0.1 ppb
Trace Impurities - Nickel (Ni)	≤ 2.0 ppb	0.3 ppb
Trace Impurities – Potassium (K)	≤ 500.0 ppb	< 2.0 ppb
Trace Impurities – Selenium (Se)	≤ 50.0 ppb	< 0.1 ppb
Trace Impurities – Silicon (Si)	≤ 100.0 ppb	31.5 ppb
Trace Impurities – Silver (Ag)	≤ 1.0 ppb	< 0.3 ppb

>>> Continued on page 2 >>>

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





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

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

For Laboratory, Research, or Manufacturing Use

Country of Origin: USA

Packaging Site: Phillipsburg Mfg Ctr & DC





#### Certificate of Analysis

#### Product information

**Product** 

pH-Fix 0.3-2.3

REF

92180

LOT

80A0441

**Expiration date:** 

29.02.2028

Date of examination:

23.01.2024

Gradation:

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

#### Confirmation

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

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

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

Hydrochloric Acid, 36.5-38.0%

BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis





M6151

R-> 1/15/25

Material No.: 9530-33

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

Retest Date: 2027-06-14

Revision No.: 0

### Certificate of Analysis

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

>>> Continued on page 2 >>>

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





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

Test	Specification	Result
Trace Impurities – Lead (Pb)	≤ 1.0 ppb	< 0.5 ppb
Trace Impurities - Lithium (Li)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities – Magnesium (Mg)	≤ 10.0 ppb	2.9 ppb
Trace Impurities - Manganese (Mn)	≤ 1.0 ppb	< 0.4 ppb
Trace Impurities – Mercury (Hg)	≤ 0.5 ppb	0.1 ppb
Trace Impurities – Molybdenum (Mo)	≤ 10.0 ppb	< 3.0 ppb
Trace Impurities - Nickel (Ni)	≤ 4.0 ppb	< 0.3 ppb
Trace Impurities - Niobium (Nb)	≤ 1.0 ppb	0.8 ppb
Trace Impurities - Potassium (K)	≤ 9.0 ppb	< 2.0 ppb
Trace Impurities - Selenium (Se), For Information Only		< 1.0 ppb
Trace Impurities - Silicon (Si)	≤ 100.0 ppb	< 10.0 ppb
Trace Impurities - Silver (Ag)	≤ 1.0 ppb	0.5 ppb
Trace Impurities – Sodium (Na)	≤ 100.0 ppb	2.3 ppb
Trace Impurities – Strontium (Sr)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities – Tantalum (Ta)	≤ 1.0 ppb	1.6 ppb
Trace Impurities – Thallium (TI)	≤ 5.0 ppb	< 2.0 ppb
Trace Impurities – Tin (Sn)	≤ 5.0 ppb	4.0 ppb
Trace Impurities – Titanium (Ti)	≤ 1.0 ppb	1.5 ppb
Trace Impurities – Vanadium (V)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities – Zinc (Zn)	≤ 5.0 ppb	0.8 ppb
Frace Impurities – Zirconium (Zr)	≤ 1.0 ppb	0.3 ppb

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





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

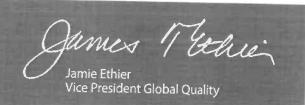
Test

Specification

Result

For Laboratory, Research, or Manufacturing Use Product Information (not specifications): Appearance (clear, fuming liquid) Meets ACS Specifications Storage Condition: Store below 25 °C.

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



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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)

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



Jose Pena (03/15/2024)

Operations Manager

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

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

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### Certificate of Analysis

Sodium Thiosulfate, 0.0250 Normal (N/40)

Lot Number: 4403S13 Product Number: 7900

Manufacture Date: MAR 29, 2024

Expiration Date: SEP 2025

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

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

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

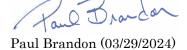
Specification	Reference	
Standard Sodium Thiosulfate Solution, 0.0250 N	APHA (4500-S2- F)	
Standard Sodium Thiosulfate Titrant	APHA (4500-O D)	
Standard Sodium Thiosulfate Titrant	APHA (4500-O E)	
Standard Sodium Thiosulfate Titrant	APHA (4500-O F)	
Standard Sodium Thiosulfate Titrant, 0.025 N	APHA (4500-Cl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

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

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

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

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



Production Manager

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

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

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



### **Certificate of Analysis**

12/14/2022

12/31/2025

#### **Sodium Hydroxide (Pellets)**

Material: 0583

Grade: ACS GRADE Batch Number: 23B1556310

Chemical Formula: NaOH
Molecular Weight: 40

CAS #: 1310-73-2

Appearance: Storage: Room Temperature

Pellets

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

Manufacture Date:

**Expiration Date:** 

Internal ID #: 710

#### Signature Additional Information

We certify that this batch conforms to the specifications listed.

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

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

28600 Fountain Parkway, Solon OH 44139 USA

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

Product meets analytical specifications of the grades listed.



### **Certificate of Analysis**

12/14/2022

12/31/2025

Room Temperature

Manufacture Date:

**Expiration Date:** 

Storage:

#### **Sodium Hydroxide (Pellets)**

Material: 0583

Grade: ACS GRADE Batch Number: 23B1556310

Chemical Formula: NaOH Molecular Weight: 40

CAS #: 1310-73-2

Appearance:

**Pellets** 

Spec Set: 0583ACS

Internal ID #: 710

Signature Additional Information

We certify that this batch conforms to the specifications listed.

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

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

Product meets analytical specifications of the grades listed.



### **Certificate Of Analysis**

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

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

Certificate of Analysis Results Entered By:

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

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

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

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

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

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



#### An ISO 9001 Certified Company

#### Certificate of Analysis

#### This is a Component of 1486266 / LOT A4169

**PRODUCT:** BOD Nutrient Buffer Pillows

PRODUCT NUMBER: 1486227 LOT NUMBER: A4169

**MANUFACTURE DATE:** 06/24/2024 **DATE OF ANALYSIS:** 07/03/2024

TEST	SPECIFICATIONS	RESULTS
Calcium Concentration of a diluted pillow	0.93 to 1.29 ppm	0.960 ppm
Magnesium Concentration of a diluted pillow	0.35 to 0.48 ppm	0.390 ppm
pH in a 6 L of DI water	7.1 to 7.6	7.37
Ammonia Concentration of a diluted pillow	0.57 to 0.79 ppm	0.593 ppm
Iron Concentration of a diluted pillow	0.27 to 0.36 ppm	0.311 ppm
Sterility	To Pass	Passed
Phosphorus Concentration of a diluted pillow	7.6 to 10.3 ppm	8.32 ppm
Five Day Change in Dissolved Oxygen Concentration	-0.2 to 0.2 ppm	0.03 ppm

The expiration date is Jun 2029

Certified by: Scottals

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### Certificate of Analysis

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

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

Expiration Date: AUG 2026

This product is Mercury-free.

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

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

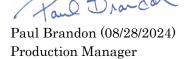
Specification	Reference
Starch Solution	APHA (4500-S2- F)
Starch Indicator Solution	APHA (4500-Cl B)
Starch Indicator	APHA (4500-SO32- B)
Starch indicator solution	APHA (2350 B)
Starch indicator solution	APHA (2350 E)
Starch Solution	APHA (510 B)
Starch Solution	APHA (5530 C)
Starch Indicator	APHA (4500-C1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

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

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

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

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



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

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customerservice@riccachemical.com

### Certificate of Analysis

Sodium Hypochlorite Solution, 5% available Chlorine

Lot Number: 2501J28 Product Number: 7495.5

Manufacture Date: JAN 17, 2025

Expiration Date: JUL 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)	$4.75 \text{-} 5.25 \% \text{ (w/w) Cl}_2$	$5.17~\%$ (w/w) $\mathrm{Cl_2}$	136

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

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

Part Number	Size / Package Type	Shelf Life (Unopened Container)
7495.5-1	4 L black poly	6 months
7495.5-16	500 mL amber poly	6 months
7495.5-32	1 L amber poly	6 months
7495.5-8	250 mL amber poly	6 months

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

Jose Pena (01/17/2025) Operations Manager

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

Version: 1.3 Lot Number: 2501J28 Product Number: 7495.5 Page 1 of 1



#### W3195 Received on 03/19/2025 by IZ

### Certificate of Analysis

Material BDH9208-500G

Material Description BDH AMMONIUM CHLORIDE ACS 500G

Grade USPREAGENT (ACS GRADE)

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

Date of Manufacture 08/01/2024

Storage Room Temperature

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

Internal ID #: 710

#### Signature Additional Information

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

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

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

28600 Fountain Parkway, Solon OH 44139 USA

Analysis may have been rounded to significant digits in specification limits

Product meets analytical specifications of the grades listed.

#### W3196 Received on 03/19/2025 by IZ

3050 Spruce Street, Saint Louis, MO 63103, USA

Website: www.sigmaaldrich.com

Email USA: techserv@sial.com

Outside USA: eurtechserv@sial.com

**Certificate of Analysis** 

NH₄CI

Ammonium chloride - ACS reagent, ≥99.5%

Product Name:

Product Number: 213330

Batch Number: MKCV1009

Brand: SIGALD

CAS Number: 12125-02-9

MDL Number: MFCD00011420

Formula: H4CIN

Formula Weight: 53.49 g/mol

Quality Release Date: 23 OCT 2023

Recommended Retest Date: SEP 2026

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

Larry Coers, Director

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

Version Number: 1 Page 1 of 2

Sigma-Aldrich<sub>®</sub>

3050 Spruce Street, Saint Louis, MO 63103, USA

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

### Certificate of Analysis

Product Number: 213330
Batch Number: MKCV1009

Quality Control Milwaukee, WI US

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

Version Number: 1 Page 2 of 2

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





08018, 0d/12/19082

Material No.: 9262-03

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

Expiration Date:2026-04-30

Revision No.: 0

### Certificate of Analysis

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

MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: United States

Packaging Site: Phillipsburg Mfg Ctr & DC



Director Quality Operations, Bioscience Production

N3212 Deceived on 5/21/25 by 12



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

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

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

#### FORMULATION:

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

#### **VIABLE COUNT, FINAL TEST RESULT:**

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

#### GLUCOSE/GLUTAMIC-ACID RESULTS:

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

See www.polyseed.com for details.

#### SEED CONTROL FACTOR:

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

#### SALMONELLA TEST RESULT:

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

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

Signature:

Date: 09/13/2024

**Quality Control Department** 

POLYSEED.Ref.1.19

Revised Jan 24







# SHIPPING DOCUMENTS



#### 284 Sheffield Street, Mountainside, NJ 07092 (908) 789-8900 Fax: (908) 788-9222 www.chemtech.net

**CHAIN OF CUSTODY RECORD** 

			( )	
Alliance	<b>Project</b>	Number:	(1)	

02203/04

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CLIENT INFORMATION PROJECT INFORMA					RMATIC	N						BI	LLIN	G IN	FORI	TAN	ON		
COMPANY: Tully Environmental Inc.			PROJECT NAME: Transfer Station SPDES							BILL TO: Same PO#									
ADDRESS: 57 Seaview Blvd			PROJECT #: 252113 LOCATION:							ADDRESS:									
CITY: Pt Washingto	n S	STATE: NY	ZIP: 11050	PROJECT MANAGER:						CITY:								STAT	TE: ZIP:
ATTENTION: Dear	Devoe			E-MAIL:						ATTE	NTION	l:						PHO	NE:
PHONE: 718 446 700	00 F	AX:		PHONE:			FAX:						AN	ALY	SIS				
DATA	TURNAROU	ND INFORM	ATION	DATA DEL	.IVER	ABLE	INFOR	MATION											
HARD COPY:        DAYS*         □ RESULTS -           EDDDAYS*         □ New Jersey								Cu, Fe, Pb	BOD5	TSS	Hg 1631LL		O&G/ Ammonia						
* TO BE APPROV STANDARD TURN			SS DAYS	☐ New Jersey CLP			ther		-	1	2	3	4	5	6	7	8	9	
			00 5/110	☐ EDD Format								P	RESE	ERVA	TIVE	S			COMMENTS
CHEMTECH		PROJECT		SAMPLE	SAMPLE TYPE		SAMPLE SECONT SAMPLE SECONT SAMPLE SECONT SAMPLE SECONT SE											< Specify Preservatives A-HCI B-HNO3	
SAMPLE ID	SAN	IPLE IDENTIFI	CATION	MATRIX	COMP	GRAB	DATE	TIME	# of Bc	1	2	3	4	5	6	7	8	9	C-H2SO4 D-NaOH E-ICE F-Other
1.	001 Willets	Pt Blvd (Jun	e)	W		Х	6/3/25	1:30		x	Х	Х	Х	Х	Х				
2.	002 35th Av	e (June)		W		Х	6/3/25	1:30		х	х	х	х	х	х				
3.																			
3. 4.																			
5.																			
6. 7.																			
7.																			
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9.																			
10.																			
	SAMPLE CU	STODY MU	ST BE DOCUM	ENTED BELOW B	EACH	TIME	SAMPL	ES CHA	NGE	PROS	SES	SIO	N INC	CLUI	DING	CO	JRIE	R D	ELIVERY
RELINQUISHED BY	_	ATE/TIME une 3, 2025	RECEIVED BY		Condi	tions o	of bottles	or coolers	at rece	ipt:		Igmo	iant	□ No	n Con	npliant		Coole	er Temp
1. D Devoe		une 3, 2025	1.		MeOH	extrac	tion require	es an additi	onal 4o	z. Jar fo	or perc	ent s	olid					□ lo	e in Cooler?: 1/05
RELINQUISHED BY 2.	D	ATE/TIME 54	RECEIVED BY	MeOH extraction requires an additional 4oz. Jar for percent solid  Comments:  Lf. G. L. L.								If Gun tel							
RELINQUISHED BY		ATE/TIME	RECEIVED FOR LA	B BY					SHIPPEI ALLI	O VIA: C		: 🗆 Ha			Over				Shipment Complete  YES NO
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#### Laboratory Certification

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

QA Control Code: A2070148



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

Fax: 908 789 8922

#### LOGIN REPORT/SAMPLE TRANSFER

Order ID: Q2203

TULL01

Order Date: 6/4/2025 12:05:00 PM

Project Mgr:

Client Name: Tully Environmental, Inc

Project Name: Transfer Station-SPDES

Report Type: Results Only

Client Contact: Dean Devoe

**Receive DateTime:** 6/4/2025 11:54:00 AM

**EDD Type:** EXCEL NOCLEANUP

Invoice Name: Tully Environmental, Inc.

Purchase Order:

Hard Copy Date:

Invoice Contact: Dean Devoe

Date Signoff:

LAB ID	CLIENT ID	MATRIX SAMPLE SAMPL DATE TIME		TEST GROUP	METHOD		FAX DATE	DUE DATES
Q2203-01	001-WILLETS-PT-BLVD(JUNE)	Water <u>-06/04/2025</u> 13:30 06/03/2025						
		00/00/2020	VOC-BTEX		624.1	5 Bus. Days		
Q2203-04	002-35TH-AVE(JUNE)	Water <del>06/04/2025</del> 13:30 06/03/2025						
		00/00/2020	VOC-BTEX		624.1	5 Bus. Days		

Relinguished By:

Date / Time :

Received By:

Storage Area: VOA Refridgerator Room