

DATA REPORTING QUALIFIERS- INORGANIC

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

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



LAB CHRONICLE

OrderID: Q3057

Contact:

Client: Major Products

Paul Bustamante

OrderDate: 9/9/2025 12:26:00 PM

Project: Floor Drain Water 2025

Location: J12

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q3057-01	DRAIN-WATER-TANK- 1	WATER			09/09/25 11:30			09/09/25
			BOD5	SM5210 B			09/10/25 16:50	
			Oil and Grease	1664A			09/10/25 11:25	
			рН	9040C			09/11/25 09:10	
			TPH	1664A			09/10/25	
			TSS	SM2540 D			12:40 09/15/25	
				220 .0 2			11:00	



SAMPLE DATA



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

Fax: 908 789 8922

Report of Analysis

Client: Major Products Date Collected: 09/09/25 11:30 Project: Floor Drain Water 2025 Date Received: 09/09/25 Client Sample ID: DRAIN-WATER-TANK-1 SDG No.: Q3057 Lab Sample ID: Q3057-01 Matrix: WATER

% Solid: 0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
BOD5	9470		1	0.20	2.00	mg/L		09/10/25 16:50	SM 5210 B-16
Oil and Grease	29.0		1	0.29	5.00	mg/L		09/10/25 11:25	1664A
pН	6.99	Н	1	0	0	pН		09/11/25 09:10	9040C
TPH	1.80	J	1	0.29	5.00	mg/L		09/10/25 12:40	1664A
TSS	283		1	1.00	4.00	mg/L		09/15/25 11:00	SM 2540 D-20

Comments: pH result reported at temperature 20.5 °C

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

D = Dilution

Q = indicates LCS control criteria did not meet requirements

H = Sample Analysis Out Of Hold Time

J = Estimated Value

B = Analyte Found in Associated Method Blank

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

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

OR = Over Range

N =Spiked sample recovery not within control limits



QC RESULT SUMMARY





Initial and Continuing Calibration Verification

Client: Major Products SDG No.: Q3057

Analyte		Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID:	ICV	рН	7.02	7	100	90-110	09/11/2025
Sample ID:	CCV1	рН	2.02	2.00	101	90-110	09/11/2025
Sample ID:	CCV2	рН	12.02	12.00	100	90-110	09/11/2025





Preparation Blank Summary

Client: Major Products SDG No.: Q3057

Project: Floor Drain Water 2025

Analyte	Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID: Oil and Gr	LB137127BL rease mg/L	< 2.5000	2.5000	U	0.29	5.0	09/10/2025
Sample ID:	LB137128BL mg/L	< 2.5000	2.5000	Ū	0.29	5.0	09/10/2025
Sample ID: BOD5	LB137151BL mg/L	< 0.2000	0.2000	Ū	0.20	2.0	09/10/2025
Sample ID:	LB137186BL mg/L	1	2.0000	J	1	4	09/15/2025



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Matrix Spike Summary

Client: Major Products SDG No.: Q3057

Project: Floor Drain Water 2025 Sample ID: Q3057-01

Client ID: DRAIN-WATER-TANK-1MS Percent Solids for Spike Sample: 0

		Acceptance	Spiked	Conc.	Sample	Conc.	Spike	Dilution	%		Analysis
Analyte	Units	Limit %R	Result	Qualifier	Result	Qualifier	Added	Factor	Rec	Qual	Date
Oil and Grease	mg/L	78-114	49.1		29.0		20.0	1	101		09/10/2025



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Matrix Spike Summary

Client: Major Products SDG No.: Q3057

Project: Floor Drain Water 2025 Sample ID: Q3057-01

Client ID: DRAIN-WATER-TANK-1MSD Percent Solids for Spike Sample: 0

		Acceptance	Spiked	Conc.	Sample	Conc.	Spike	Dilution	%		Analysis
Analyte	Units	Limit %R	Result	Qualifier	Result	Qualifier	Added	Factor	Rec	Qual	Date
Oil and Grease	mg/L	78-114	49.2		29.0		20.0	1	101		09/10/2025



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Duplicate Sample Summary

Client: Major Products SDG No.: Q3057

Project: Floor Drain Water 2025 Sample ID: LB137128BS

Client ID: LB137128BSD 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	
ТРН	mg/L	+/-18	16.8		17.0		1	1.18		09/10/2025	



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Duplicate Sample Summary

Client: Major Products SDG No.: Q3057

Project: Floor Drain Water 2025 **Sample ID:** Q3057-01

Client ID: DRAIN-WATER-TANK-1MSD Percent Solids for Spike Sample: 0

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/ AD	Qual	Analysis Date
Oil and Grease	mg/L	+/-18	49.1	•	49.2		1	0.2	•	09/10/2025



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Duplicate Sample Summary

Client: Major Products SDG No.: Q3057

Project: Floor Drain Water 2025 Sample ID: Q3067-02

Client ID: COMPDUP Percent Solids for Spike Sample: 0

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/ AD	Qual	Analysis Date
BOD5 TSS	mg/L mg/L	+/-20 +/-5	681 241		683 238		1	0.24 1.25		09/10/2025 09/15/2025



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Duplicate Sample Summary

Client: Major Products SDG No.: Q3057

Project: Floor Drain Water 2025 Sample ID: Q3074-02

Client ID: MOO-25-0140DUP 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
рН	рH	+/-20	6.30		6.32		1	0.32		09/11/2025





Laboratory Control Sample Summary

Client: Major Products SDG No.: Q3057

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID LB137127BS								
Oil and Grease	mg/L	20.0	16.9		84	1	78-114	09/10/2025





Laboratory Control Sample Summary

Client: Major Products SDG No.: Q3057

Analyte		Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID	LB137128BS								_
TPH		mg/L	20.0	16.8		84	1	78-114	09/10/2025





Laboratory Control Sample Summary

Client: Major Products SDG No.: Q3057

Analyte		Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID	LB137128BSD								
TPH		mg/L	20.0	17.0		85	1	78-114	09/10/2025





Laboratory Control Sample Summary

Client: Major Products SDG No.: Q3057

Analyte		Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID	LB137151BS								_
BOD5		mg/L	198	186		94	1	84.6-115.4	09/10/2025





Laboratory Control Sample Summary

Client: Major Products SDG No.: Q3057

Analyte		Units	True Value		Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID	LB137186BS								
TSS		mg/L	550	531		96	1	90-110	09/15/2025



RAW DATA



Extraction and Analytical Summary Report

Analysis Method: 1664A

Test: Oil and Grease

Run Number: LB137127

Analysis Date: 09/10/2025

BalanceID: WC SC-5

OvenID: EXT OVEN-3

ANALYST: JIGNESH

REVIEWED BY: Iwona

Extraction Date: 09/10/2025

Extration IN Time: $\overline{10:00}$

Extration OUT Time: $\frac{10.30}{10:30}$

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	LB137127BL	LB137127BL	WATER	1.3	1000	100	3.1471	3.1471	0	3.1472	3.1472	0.0001	0.1
2	LB137127BS	LB137127BS	WATER	1.3	1000	100	2.8741	2.8741	0	2.8910	2.8910	0.0169	16.9
3	Q3019-17	WP0925-PT-ORG1L-WP	WATER	1.3	880	100	3.0565	3.0565	0	3.1147	3.1147	0.0582	66.14
4	Q3041-01	001 Willets Pt Blvd (S	WATER	1.6	1000	100	3.0446	3.0446	0	3.0450	3.0450	0.0004	0.4
5	Q3041-04	002 35th Ave(sep)	WATER	1.6	1000	100	3.0277	3.0277	0	3.0280	3.0280	0.0003	0.3
6	Q3057-01	DRAIN-WATER-TANK-1	WATER	1.6	1000	100	3.0671	3.0671	0	3.0961	3.0961	0.0290	29
7	Q3057-02	Q3057-01MS	WATER	1.6	1000	100	3.1984	3.1984	0	3.2475	3.2475	0.0491	49.1
8	Q3057-03	Q3057-01MSD	WATER	1.6	1000	100	2.6503	2.6503	0	2.6995	2.6995	0.0492	49.2



QC Batch# LB137127

Test: Oil and Grease

Analysis Date: 09/10/2025

Chemicals Used:

Chemical Name	Chemical Lot #
HEXANE	W3204
pH Paper 0-14	М6069
Sodium Sulfate	EP2636
1:1 HCL	WP112782
Silica Gel	NA
Sand	NA

Standards Used:

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

BALANCE CALIBRATION / OVEN Dessicator Data

Analytical Balance ID # : WC SC-6

Before Analysis

0.0020 gram Balance: 0.0018 (0.0018-0.0022) In OVEN TEMP1: 70 °C Dessicator Time In1: 12:31

1.0000 gram Balance: 1.0004 (0.9950-1.0050) In Time1: 11:25

Out OVEN TEMP1: 70 °C 10:10 Dessicator Time Out1: 13:00 Bal Check Time:

> 12:30 Out Time1:

After Analysis

In OVEN TEMP2 : 71 °C Dessicator Time In2 : 14:01 0.0020 gram Balance: 0.0019 (0.0018-0.0022)

13:30 In Time2: 1.0000 gram Balance: 1.0005 (0.9950-1.0050)

Out OVEN TEMP2: 71 °C Dessicator Time Out2: 14:35 14:36 Bal Check Time:

> 14:00 Out Time2:

Reviewed By:Iwona On:9/10/2025 12:06:48 PM Inst Id :WC SC-3 LB :LB137127

161.00

WORKLIST(Hardcopy Internal Chain)

WorkList ID: 191777

OIL & GREASE Q3057

WorkList Name:

Department: Wet-Chemistry

UP 13 +127

	(1) COC (2007)	WorkList	WorkList ID: 191777	Department: Wet-Chemistry	-Chemistry	ä	Date . 09-10-2025 00:38:50	75 00-38-50
Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date Method	Method
03040 47								
-81000	WP0925-PI-ORG1L-WP	Water	Oil and Grease	Conc H2SO4 to pH < 2	ALI ID3	, to	1000,000	
Q3041-01	001 Willets Dt Blyd (See)	107-11				5	U3/UZ/ZUZ5 1664A	1664A
	(dac) paid (acb)	water	Oil and Grease	Conc H2SO4 to pH < 2	TULL01		3000/10/00	4004
Q3041-04	002 35th Ave(sen)	Motor					03/04/2023 1004A	I004A
	(doc)	אמובו	Oil and Grease	Conc H2SO4 to pH < 2	TULL01	.11	00/04/2026	40040
Q3057-01	DRAIN-WATER-TANK-1	Water	Oil and Grease				0202/40/60	1004A
11000				COILC FIZSO4 to pH < 2	MAJO01	J12	09/09/2025 1664A	1664A
U3057-02	Q3057-01MS	Water	Oil and Grease	Conc H2SO4 to pH < 2	MA DOG	2 2		
03057.03	10000			7, 11, 02 1, 02 1, 02 1	1	212	09/09/2025 1664A	1664A
200-100	GSUSY-UTIMSD	Water	Oil and Grease	Conc H2SO4 to pH < 2	MA.IOO1	113	1000,000	
					1	212	US/US/ZUZS 1664A	1664A

Date/Time 09-10-25

Raw Sample Received by:

Raw Sample Relinquished by:

Page 1 of 1

Raw Sample Relinquished by:

Date/Time 09-10-25 09!45



Extraction and Analytical Summary Report

Analysis Method: 1664A

Test: $\overline{\text{TPH}}$

Run Number: LB137128

Analysis Date: 09/10/2025

BalanceID: WC SC-5

OvenID: EXT OVEN-3

ANALYST: JIGNESH

REVIEWED BY: Iwona

Extraction Date: 09/10/2025

Extration IN Time: $\overline{11:00}$

Extration OUT Time: 12:00Thermometer 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	LB137128BL	LB137128BL	WATER	1.3	1000	100	2.4153	2.4153	3.02	2.4154	2.4154	0.0001	0.1
2	LB137128BS	LB137128BS	WATER	1.3	1000	100	3.1586	3.1586	3.01	3.1754	3.1754	0.0168	16.8
3	LB137128BSD	LB137128BSD	WATER	1.3	1000	100	2.7011	2.7011	3.03	2.7181	2.7181	0.0170	17
4	Q3019-18	WP0925-PT-TPH1L-WP	WATER	1.3	880	100	3.0596	3.0596	3.04	3.1554	3.1554	0.0958	108.86
5	Q3057-01	DRAIN-WATER-TANK-1	WATER	1.6	1000	100	3.0388	3.0388	3.03	3.0406	3.0406	0.0018	1.8



QC Batch# LB137128

Test: TPH

Analysis Date: 09/10/2025

Chemicals Used:

Chemical Name	Chemical Lot #
HEXANE	W3204
pH Paper 0-14	М6069
Sodium Sulfate	EP2636
1:1 HCL	WP112782
Silica Gel	w3079
Sand	W3186

Standards Used:

Standard Name	Amount Used	Standard Lot #
LCSW	5.00 ML	WP112783
LCSWD	5.00 ML	WP112784
MS/MSD	N/A	N/A

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: 13:31

1.0000 gram Balance: 1.0004 (0.9950-1.0050) In Time1: 12:40

Out OVEN TEMP1: 70 °C 11:19 Bal Check Time: Dessicator Time Out1: 14:00

> 13:30 Out Time1:

After Analysis

In OVEN TEMP2 : 71 °C Dessicator Time In2 : 15:01 0.0020 gram Balance: 0.0019 (0.0018-0.0022)

14:30 In Time2: 1.0000 gram Balance: 1.0003 (0.9950-1.0050)

Out OVEN TEMP2: 71 °C Dessicator Time Out2: 15:35 15:36 Bal Check Time:

> 15:00 Out Time2:

Reviewed By:Iwona On:9/10/2025 12:07:04 PM Inst Id :WC SC-3 LB :LB137128

WORKLIST(Hardcopy Internal Chain)

WorkList ID: 191778

tph q30057

WorkList Name:

Department: Wet-Chemistry

Date: 09-10-2025 09:39:42

Collect Date Method

Raw Sample

Storage Location

Customer

Preservative

Test

Matrix

Customer Sample

Sample

09/02/2025 1664A 09/09/2025 1664A

QAO

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

TPH TPH

Water Water

WP0925-PT-TPH1L-WP DRAIN-WATER-TANK-1

Q3019-18 Q3057-01

II

J12

MAJ001 ALL103

JA73 4738

Date/Time 09,0.75

6000

Raw Sample Received by:

Raw Sample Relinquished by:

Page 1 of 1

Date/Time 09,10-25 09,45

Raw Sample Relinquished by: Raw Sample Received by:



Analytical Summary Report

Analysis Method: 9040C Analyst By: JIGNESH

Parameter: pH Supervisor Review By : Iwona

Run Number: LB137149 **Slope :** 98.4

 $\mathbf{pH} \ \mathbf{Meter} \ \mathbf{ID} \ : \ \mathtt{WC} \ \mathtt{PH} \ \mathtt{METER-1}$

Calibration Standards	Chemtech Log#
PH 4 BUFFER SOLUTION	W3178
BUFFER PH 7.00 GREEN 1PINT PK6	w3093
PH 10.01 BUFFER, COLOR CD 475ML	W3191
buffer solution pH 7 yellow	W3217
Buffer Solution, PH2 (500ml)	W3161
pH 12.00 Buffer	W3200

True Value of ICV = 7.00 Control Limits[+/- 0.1].

True Value of CCV1 = 2.00 Control Limits[+/- 0.05].

True Value of CCV2 = 12.00 Control Limits[+/- 0.05].

Seq	LabID	DF	Matrix	Weight (gm)	Volume (ml)	Temperature (°C)	Result (pH)	Anal Date	Anal Time
1	CAL1	1	Water	NA	NA	20.2	4.01	09/11/2025	08:30
2	CAL2	1	Water	NA	NA	20.2	7.00	09/11/2025	08:31
3	CAL3	1	Water	NA	NA	20.2	10.02	09/11/2025	08:33
4	ICV	1	Water	NA	NA	20.3	7.02	09/11/2025	08:35
5	CCV1	1	Water	NA	NA	20.1	2.02	09/11/2025	09:00
6	Q3057-01	1	Water	NA	NA	20.5	6.99	09/11/2025	09:10
7	Q3070-01	1	Water	NA	NA	20.8	7.38	09/11/2025	09:20
8	Q3071-02	1	Water	NA	NA	20.6	6.50	09/11/2025	09:30
9	Q3074-02	1	Water	NA	NA	20.8	6.30	09/11/2025	09:38
10	Q3074-02DUP	1	Water	NA	NA	20.9	6.32	09/11/2025	09:40
11	CCV2	1	Water	NA	NA	20.2	12.02	09/11/2025	09:41

Reviewed By:Iwona On:9/11/2025 11:13:09 AM Inst Id :WC PH METER-1

WORKLIST(Hardcopy Internal Chain)

WorkList ID: 191795

ph q3074 w

WorkList Name:

Matrix

Department: Wet-Chemistry

Date: 09-11-2025 08:11:14

9040C

09/10/2025

09/10/2025 9040C 09/10/2025 9040C

09/09/2025 9040C

J12 D21 D21 D31

MAJ001 MAJO01 PSEG03 PSEG03

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

Hd Hd 돐 표

Water Water

DRAIN-WATER-TANK-1 DRAIN-WATER-TANK-1

Q3070-01

Q3071-02

03057-01

Water Water

MOO-25-0140

Q3074-02

PH145150

Date/Time 04-11-25 Raw Sample Received by:

Raw Sample Relinquished by:

Date/Time 19911.25 08:15

Raw Sample Relinquished by: Raw Sample Received by:

Alliance

QC BATCH ID: LB137151

Sulfuric acid, 1N: WP112832

Chlorine Strips: W3155

pH Strips: W3215

BOD Water: WP114724

Starch: W3149

POLYSEED: WP114726

GGA: WP114725

BOD5 LOG

ANALYST: rubir nst ld:DO METER

Reviewed By:Iwona On:9/15/2025 1:38:25

SUPERVISOR: Iwona

Analysis Date: 09/10/2025

MANGANOUS SULFATE SOLUTION: W3103

Alkaline Iodide Azide: W3109

Sodium Thiosulfate, 0.025N: W3105

NaOH, 1N: WP113878

IncubatorID: INCUBATOR #3

GuageID: 0511064

Zero DO: WP114418

Lab SampleID	Client ID	Bottle No.	VOL.	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

Barometric Pressure1: 760 mmHg DO Meter BOD fluid reading for winkler comparison: 9.95

After Incubation

Meter Calibration2: 8.96 Zero DO Reading2: 0.10 mg/L (<=0.2 Criteria)

Barometric Pressure2: 765 mmHg



QC BATCH ID: LB137151

INCUBATOR TEMP IN(C): 20.1

INCUBATOR TEMP OUT (C): 202

TIME IN: 16:50

TIME OUT: 12:00

DATE IN: 09/10/2025

DATE OUT: 09/15/2025

Lab SampleID	Bottle No.	Check CL	Initial PH	Final PH	Temp °C	Sam Vol. (mL)	D.O.1 Initial	D.O.2 Final	Depletion	BOD Result (mg/L)	Avg Result (mg/L)	Comment
LB137151BL	1	No	6.82	N/A	20.80	300	9.94	9.92	0.02	0.02	0.02	
POLYSEED	1					10	9.89	6.92	2.97	0.59	0.64	
POLYSEED	2					15	9.81	4.68	5.13	0.68		
POLYSEED	3					20	9.77	3.15	6.62	0.66		
GGA	1					6	9.85	5.60	4.25	180.5	186.33	
GGA	2					6	9.82	5.40	4.42	189		
GGA	3					6	9.82	5.39	4.43	189.5		
Q3041-01	1	No	6.90	N/A	20.40	5	9.84	7.04	2.8	129.6	69.38	
Q3041-01	2					20	9.68	6.16	3.52	43.2		
Q3041-01	3					50	9.59	3.06	6.53	35.34		
Q3041-01	4					150	9.57	0.61	-	0		
Q3041-04	1	No	2.28	7.24	20.40	5	9.76	8.60	-	0	14.44	pH Adjuste
Q3041-04	2					20	9.72	7.51	2.21	23.55		
Q3041-04	3					50	9.69	7.00	2.69	12.3		
Q3041-04	4					150	9.67	5.29	4.38	7.48		
Q3057-01	1	No	6.99	N/A	20.50	5	9.71	7.24	2.47	10980	9465	
Q3057-01	2					10	9.67	6.22	3.45	8430		
Q3057-01	3					20	9.65	3.02	6.63	8985		
Q3057-01	4					50	9.58	0.59	-	0		
Q3057-01	5					100	9.05	0.35	-	0		
Q3067-02	1	No	9.92	7.38	20.20	5	9.84	7.72	2.12	888	681.13	pH Adjuste
Q3067-02	2					10	9.82	6.87	2.95	693		
Q3067-02	3					20	9.78	4.79	4.99	652.5		
Q3067-02	4					30	9.75	4.20	5.55	491		
Q3067-02DUP	1	No	9.92	7.38	20.20	5	9.83	7.70	2.13	894	682.75	pH Adjuste
Q3067-02DUP	2					10	9.80	6.80	3	708		
Q3067-02DUP	3					20	9.74	4.88	4.86	633		
Q3067-02DUP	4					30	9.72	4.12	5.6	496		
Q3070-01	1	No	7.38	N/A	20.80	5	9.90	7.36	2.54	11400	10130	
Q3070-01	2					10	9.84	5.71	4.13	10470		
Q3070-01	3					20	9.56	3.24	6.32	8520		
Q3070-01	4					50	9.20	0.61	-	0		
Q3070-01	5					100	8.99	0.48	-	0		

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

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



TOTAL SUSPENDED SOLIDS - SM2540D

SUPERVISOR: Iwona

ANALYST: JIGNESH

Date: 09/12/2025

Run Number: LB137186

BalanceID: WC SC-5	/2025 16:00	0	103 °C	OUT:	TEMP1	15:00	09/12/2025	°C	104	MP1 IN:	TEM
OvenID: WC OVEN-1	/2025 17:30	0	103 °C	OUT:	TEMP2	16:30	09/12/2025	°c	104	MP2 IN:	TEM
FilterID: 60828725	/2025 12:30	0	103 °C	OUT:	TEMP3	11:00	09/15/2025	°c	104	MP3 IN:	TEM
ThermometerID: WET OVEN#1	/2025 14:35	0	103 °C	OUT:	TEMP4	13:00	09/15/2025	°c	104	MP4 IN:	TEM

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	LB137186BL	LB137186BL	1.3523	1.3523	100	1.3524	1.3524	1.3524	0.0001	1
2	LB137186BS	LB137186BS	1.4874	1.4875	100	1.5406	1.5406	1.5406	0.0531	531
3	Q3057-01	DRAIN-WATER-TANK-1	1.5001	1.5002	200	1.5566	1.5567	1.5567	0.0565	282.5
4	Q3067-02	COMP	1.4752	1.4752	100	1.4993	1.4993	1.4993	0.0241	241
5	Q3067-02DUP	COMPDUP	1.4754	1.4754	100	1.4992	1.4992	1.4992	0.0238	238
6	Q3070-01	DRAIN-WATER-TANK-1	1.4816	1.4816	100	1.5056	1.5056	1.5056	0.0240	240
7	Q3081-01	DRAIN-WATER-TANK-1	1.4941	1.4942	500	1.5450	1.5450	1.5450	0.0508	101.6
8	Q3086-01	RW8-SP100-20250911	1.4761	1.4762	1900	1.4763	1.4765	1.4765	0.0003	0.2
9	Q3086-02	RW8-SP303-20250911	1.4889	1.4889	1800	1.4891	1.4892	1.4892	0.0003	0.2
10	Q3093-01	MH-9-12-25	1.4752	1.4752	1000	1.5577	1.5577	1.5577	0.0825	82.5
11	Q3096-01	DRAIN-WATER-TANK-1	1.4862	1.4862	100	1.5353	1.5353	1.5353	0.0491	491
12	Q3098-04	EFF-WW	1.4584	1.4584	1000	1.5076	1.5076	1.5076	0.0492	49.2



TOTAL SUSPENDED SOLIDS - SM2540D

SUPERVISOR: Iwona

ANALYST: JIGNESH

Date: 09/12/2025

Run Number: LB137186

104 °C 09/12/2025 15:00 TEMP1 OUT: 103 °c 09/12/2025 16:00 TEMP1 IN: BalanceID: WC SC-5 104 °C 09/12/2025 16:30 TEMP2 OUT: 103 °C 09/12/2025 17:30 TEMP2 IN: OvenID: WC OVEN-1 104 °C 09/15/2025 11:00 TEMP3 OUT: 103 °C 09/15/2025 12:30 **FilterID:** 60828725 TEMP3 IN: 104 °C 09/15/2025 13:00 TEMP4 OUT: 103 °C 09/15/2025 14:35 TEMP4 IN: ThermometerID: WET OVEN#1

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

A = Sample Volume (ml)

B = Final Empty Dish Weight (g)

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

D = Weight (g)

Weight (g) = C - B

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

Reviewed By:Iwona On:9/16/2025 2:55:08 PM Inst Id :WC SC-3

981781W

Department: Wet-Chemistry WORKLIST(Hardcopy Internal Chain) 191856 WorkList ID: tss q3096 WorkList Name:

SM2540 D Date: 09-15-2025 07:54:51 Collect Date Method 09/09/2025 09/10/2025 39/11/2025 09/11/2025 09/10/2025 09/12/2025 39/11/2025 09/12/2025 Raw Sample Storage Location **J12 D31 D21** 11 **D31 D31** D31 **D31** MAJ001 **MAJ001** MAJO01 TETR06 MAJ001 Customer ARAM01 TETR06 EUR003 Cool 4 deg C Preservative Test TSS TSS TSS TSS TSS TSS TSS TSS TSS Matrix Water Water Water Water Water Water Water Water Water DRAIN-WATER-TANK-1 DRAIN-WATER-TANK-1 DRAIN-WATER-TANK-1 DRAIN-WATER-TANK-1 RW8-SP100-20250911 03086-02 // C RW8-SP303-20250911 **Customer Sample** MH-9-12-25 EFF-WW COMP 9 Q3057-01 B Q3067-02 M Q3086-01 B Q3070-01 Q3081-01 Q3096-01 Q3098-04 Q3093-01 Sample

09/12/2025 SM2540 D

D31

ARDM01

Date/Time 69/15/12

Raw Sample Received by:

Raw Sample Relinquished by:

Date/Time 09-15-45 08-10

Raw Sample Relinquished by:

Raw Sample Received by:



Instrument ID: WC SC-3

Review By	JIG	SNESH	Review On	9/10/2025 10:18:25 AM
Supervise By	lwc	ona	Supervise On	9/10/2025 12:06:48 PM
SubDirectory	LB	137127	Test	Oil and Grease
STD. NAME		STD REF.#		
ICAL Standard		N/A		
ICV Standard		N/A		
CCV Standard		N/A		
ICSA Standard		N/A		
CRI Standard		N/A		
LCS Standard	LCS Standard N/A			
Chk Standard		W3204,M6069,EP2636,	WP112782,NA,NA,WP112783,N/A,WP	112784

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	LB137127BL	LB137127BL	MB	09/10/25 11:25		JIGNESH	ок
2	LB137127BS	LB137127BS	LCS	09/10/25 11:25		JIGNESH	ок
3	Q3019-17	WP0925-PT-ORG1L-\	SAM	09/10/25 11:25		JIGNESH	ок
4	Q3041-01	001 Willets Pt Blvd (Se	SAM	09/10/25 11:25		JIGNESH	ОК
5	Q3041-04	002 35th Ave(sep)	SAM	09/10/25 11:25		JIGNESH	ок
6	Q3057-01	DRAIN-WATER-TANK	SAM	09/10/25 11:25		JIGNESH	ок
7	Q3057-02	Q3057-01MS	MS	09/10/25 11:25		JIGNESH	ОК
8	Q3057-03	Q3057-01MSD	MSD	09/10/25 11:25		JIGNESH	ОК



Instrument ID: WC SC-3

Review By	JIG	NESH	Review On	9/10/2025 10:25:24 AM
Supervise By	lwo	ona	Supervise On	9/10/2025 12:07:04 PM
SubDirectory	LB′	137128	Test	TPH
STD. NAME		STD REF.#		
ICAL Standard		N/A		
ICV Standard		N/A		
CCV Standard		N/A		
ICSA Standard		N/A		
CRI Standard		N/A		
LCS Standard N/A				
Chk Standard		W3204,M6069,EP2636	WP112782,W3079,W3186,WP112783,	WP112784,N/A

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	LB137128BL	LB137128BL	MB	09/10/25 12:40		JIGNESH	ок
2	LB137128BS	LB137128BS	LCS	09/10/25 12:40		JIGNESH	ок
3	LB137128BSD	LB137128BSD	LCSD	09/10/25 12:40		JIGNESH	ОК
4	Q3019-18	WP0925-PT-TPH1L-V	SAM	09/10/25 12:40		JIGNESH	ОК
5	Q3057-01	DRAIN-WATER-TANK	SAM	09/10/25 12:40		JIGNESH	ОК



Instrument ID: WC PH METER-1

Review By	JIG	NESH	Review On	9/11/2025 10:22:28 AM
Supervise By	·		Supervise On	9/11/2025 11:13:09 AM
SubDirectory	LB′	137149	Test	рН
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		W3178,W3093,W3191,	W3217,W3161,W3200	

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	CAL1	CAL1	CAL	09/11/25 08:30		JIGNESH	ОК
2	CAL2	CAL2	CAL	09/11/25 08:31		JIGNESH	ок
3	CAL3	CAL3	CAL	09/11/25 08:33		JIGNESH	ОК
4	ICV	ICV	ICV	09/11/25 08:35		JIGNESH	ок
5	CCV1	CCV1	CCV	09/11/25 09:00		JIGNESH	ок
6	Q3057-01	DRAIN-WATER-TANK	SAM	09/11/25 09:10		JIGNESH	ОК
7	Q3070-01	DRAIN-WATER-TANK	SAM	09/11/25 09:20		JIGNESH	ОК
8	Q3071-02	4089	SAM	09/11/25 09:30		JIGNESH	ок
9	Q3074-02	MOO-25-0140	SAM	09/11/25 09:38		JIGNESH	ОК
10	Q3074-02DUP	MOO-25-0140DUP	DUP	09/11/25 09:40		JIGNESH	ОК
11	CCV2	CCV2	CCV	09/11/25 09:41		JIGNESH	ОК



Instrument ID: DO METER

Review By	rubina		Review On	9/15/2025 1:33:53 PM					
Supervise By	lwona		Supervise On	9/15/2025 1:38:25 PM					
SubDirectory	LB137151		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		WP114724,W3149,WP112832,W3103,W3109,W3105,WP114726,WP114725,WP113878							

Sr#	Sampleld	ClientID	QcType	Date	Comment	Operator	Status
1	LB137151BL	LB137151BL	MB	09/10/25 16:50		rubina	ОК
2	LB137151BS	LB137151BS	LCS	09/10/25 16:50		rubina	ОК
3	Q3041-01	-01 001 Willets Pt Blvd (Se		09/10/25 16:50	Due to bad matrix difference between highest and lowest results is >30% for	rubina	OK
4	Q3041-04	002 35th Ave(sep)	SAM	09/10/25 16:50	Due to bad matrix difference between highest and lowest results is >30% for	rubina	OK
5	Q3057-01	DRAIN-WATER-TANK	SAM	09/10/25 16:50		rubina	ОК
6	Q3067-02	COMP	SAM	09/10/25 16:50	Due to bad matrix difference between highest and lowest results is >30% for	rubina	OK
7	Q3067-02DUP	COMPDUP	DUP	09/10/25 16:50	Due to bad matrix difference between highest and lowest results is >30% for	rubina	OK
8	Q3070-01	DRAIN-WATER-TANK	SAM	09/10/25 16:50		rubina	ОК



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Instrument ID: WC SC-3

Daily Analysis Runlog For Sequence/QCBatch ID # LB137186

Review By	JIG	NESH	Review On	9/16/2025 2:49:11 PM
Supervise By	Supervise By Iwona		Supervise On	9/16/2025 2:55:08 PM
SubDirectory	LB′	137186	Test	TSS
STD. NAME		STD REF.#		
ICAL Standard		N/A		
ICV Standard		N/A		
CCV Standard		N/A		
ICSA Standard		N/A		
CRI Standard		N/A		
LCS Standard		N/A		
Chk Standard		N/A		

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	LB137186BL	LB137186BL	MB	09/15/25 11:00		JIGNESH	ок
2	LB137186BS	LB137186BS	LCS	09/15/25 11:00	55 mg w3186 + 100 ml w3112	JIGNESH	ОК
3	Q3057-01	DRAIN-WATER-TANK	SAM	09/15/25 11:00		JIGNESH	ок
4	Q3067-02	COMP	SAM	09/15/25 11:00		JIGNESH	ОК
5	Q3067-02DUP	COMPDUP	DUP	09/15/25 11:00		JIGNESH	ОК
6	Q3070-01	DRAIN-WATER-TANK	SAM	09/15/25 11:00		JIGNESH	ОК
7	Q3081-01	DRAIN-WATER-TANK	SAM	09/15/25 11:00		JIGNESH	ОК
8	Q3086-01	RW8-SP100-2025091	SAM	09/15/25 11:00		JIGNESH	ОК
9	Q3086-02	RW8-SP303-2025091	SAM	09/15/25 11:00		JIGNESH	ОК
10	Q3093-01	MH-9-12-25	SAM	09/15/25 11:00		JIGNESH	ОК
11	Q3096-01	DRAIN-WATER-TANK	SAM	09/15/25 11:00		JIGNESH	ОК
12	Q3098-04	EFF-WW	SAM	09/15/25 11:00		JIGNESH	ОК



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

8900, Fax: 908 789 8922

Prep Standard - Chemical Standard Summary

Order ID :	Q3057
Test :	BOD5,Oil and Grease,pH,TPH,TSS
Prepbatch ID :	
Sequence ID/Qc Bate	ch ID: LB137127,LB137128,LB137149,LB137151,LB137186,
Standard ID : EP2636,WP112782,V	VP112783,WP112784,WP112832,WP113878,WP114724,WP114725,WP114726,
Chemical ID :	
	,M6069,M6151,W2653,W2654,W2817,W2871,W3009,W3079,W3082,W3093,W3103,W3105,W31 3149,W3161,W3178,W3186,W3191,W3200,W3204,W3212,W3217,W3233,





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Extractions STANDARD PREPARATION LOG

Recipe ID	NAME	<u>NO.</u>	Prep Date	Expiration Date	Prepared By	<u>ScaleID</u>	<u>PipetteID</u>	Supervised By Evelyn Huang
3923	Baked Sodium Sulfate	EP2636	08/27/2025	01/28/2026	Riteshkumar Patel	Extraction_SC ALE 2	None	, s
					Palei	(EX-SC-2)		08/27/2025

FROM 400	0.00000gram of E3875	= Final Quantity:	4000.000	gram
-----------------	----------------------	-------------------	----------	------

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

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



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Wet Chemistry STANDARD PREPARATION LOG

Recipe ID	<u>NAME</u>	NO.	Prep Date	Expiration Date	Prepared By	<u>ScaleID</u>	<u>PipetteID</u>	Supervised By Iwona Zarych
2470	1664A SPIKING SOLN	WP112783	04/22/2025	10/03/2025	Jignesh Parikh	WETCHEM_S	None	
						CALE_8 (WC		04/22/2025
	1000 00000ml of F2017 + 4 00000mm	f \\/\)004	7 . 4 00000-	of \\/\0074	- Final Overtit	SC-7)		

<u>FROM</u>	1000.00000ml of E3917 + 4.00000 gram of W2817 + 4.00000 gram of W2871 = Final Quantity: 1000.000 ml	

Recipe				Expiration	Prepared			Supervised By
<u>ID</u>	<u>NAME</u>	<u>NO.</u>	Prep Date	<u>Date</u>	<u>By</u>	<u>ScaleID</u>	<u>PipetteID</u>	Iwona Zarych
3374	1664A QCS spiking solution-SS	WP112784	04/22/2025	10/03/2025	Jignesh Parikh	WETCHEM_S	None	
						CALE_8 (WC		04/22/2025

FROM 1000.00000ml of E3917 + 4.00000gram of W3009 + 4.00000gram of W3082 = 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
1841	Sulfuric Acid, 1N	WP112832	04/25/2025	10/25/2025	Rubina Mughal	None	WETCHEM_F IPETTE_3	04/25/2025
FROM	2 20000ml of M6041 + 07 20000ml o	f \\\/2112 =	Final Occaptitu	: 100 000 ml			(WC)	

FROM	2.80000ml of M6041 + 97.20000ml of W3112 = Final Quantity: 100.000 ml	
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Recipe				Expiration	Prepared			Supervised By
<u>ID</u>	<u>NAME</u>	<u>NO.</u>	Prep Date	<u>Date</u>	<u>By</u>	<u>ScaleID</u>	<u>PipetteID</u>	Jignesh Parikh
1571	Sodium hydroxide, 1N	WP113878	07/09/2025	12/31/2025	lwona Zarych	WETCHEM_S	None	
						CALE_7 (WC		07/09/2025

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



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Wet Chemistry STANDARD PREPARATION LOG

Recipe ID	NAME	<u>NO.</u>	Prep Date	Expiration Date	Prepared By	<u>ScaleID</u>	<u>PipetteID</u>	Supervised By Iwona Zarych
127	BOD Dilution fluid	WP114724	09/10/2025	09/11/2025	Rubina Mughal	None	None	
								09/11/2025

FROM	18.00000L of W3112 + 3.00000PILLOW of W3233 = 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 Iwona Zarych
129	Glutamic acid-glucose mix for BOD	<u>WP114725</u>	09/10/2025	09/11/2025	Rubina Mughal	WETCHEM_S CALE_7 (WC	None	09/11/2025

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





Fax: 908 789 8922

Wet Chemistry STANDARD PREPARATION LOG

Recipe ID 128	NAME polyseed seed control	NO. WP114726	Prep Date 09/10/2025	Expiration Date 09/11/2025	Prepared By Rubina Mughal	<u>ScaleID</u> None	PipettelD None	Supervised By Iwona Zarych 09/11/2025
FROM	1.00000PILLOW of W3212 + 300.00	000ml of WF	P114724 = Fi	nal Quantity: 30	00.000 ml			



Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	PC19631-100 / SODIUM SULFATE, ANHYDROUS, PEST GRADE, 1	417203	01/28/2026	07/28/2025 / RUPESH	01/29/2025 / Rajesh	E3875
Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9254-03 / Acetone, Ultra Resi (cs/4x4L)	24H2762008	10/03/2025	04/03/2025 / Rajesh	03/31/2025 / Rajesh	E3917
Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9673-33 / Sulfuric Acid, Instra-Analyzed (cs/6c2.5L)	23D2462010	03/20/2028	08/16/2024 / mohan	08/16/2024 / mohan	M6041
Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	140440 / TEST PAPERS,PH,0-2.5,.2SENSI, 100PK	80A0441	02/29/2028	09/03/2024 / jignesh	08/19/2024 / Jaswal	M6069
Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date /	Chemtech Lot #
Seidler Chemical	BA-9530-33 / Hydrochloric Acid, Instra-Analyzed (cs/6x2.5L)	22G2862015	02/17/2026	02/18/2025 / Sagar	01/15/2025 / Sagar	M6151
Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	AC156212500 / GLUTAMIC ACID BIOCHEM REG, 250G	A0405990	01/24/2030	01/24/2020 / apatel	01/24/2020 / apatel	W2653



Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	D16-500 / DEXTROSE ANHYDROUS ACS REAGENT, 500G(New)	186122A	01/24/2030	01/24/2020 / apatel	01/24/2020 / apatel	W2654
Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	A12244 / Stearic acid, 98%, 100 g	U20E006	04/02/2026	04/02/2021 / apatel	04/02/2021 / apatel	W2817
Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	H223-57 / Hexadecane, 99.0%	0000266903	05/04/2027	09/07/2021 / apatel	08/26/2021 / apatel	W2871
Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
			Date	Opened by		LOC #
Seidler Chemical	H223-57 / Hexadecane, 99.0%	SHBP8192	02/27/2028	02/27/2023 / Iwona	02/27/2023 / Iwona	W3009
Seidler Chemical Supplier		SHBP8192		02/27/2023 /	02/27/2023 /	
	99.0%		02/27/2028 Expiration	02/27/2023 / Iwona Date Opened /	02/27/2023 / Iwona	W3009
Supplier PCI Scientific	ItemCode / ItemName 04667-2.5 / Silica Gel	Lot #	02/27/2028 Expiration Date	02/27/2023 / Iwona Date Opened / Opened By 05/07/2024 /	02/27/2023 / Iwona Received Date / Received By 01/30/2024 /	W3009 Chemtech Lot #



Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	566002 / BUFFER PH 7.00 GREEN 1PINT PK6	44001f99	12/31/2025	04/03/2024 / jignesh	04/02/2024 / jignesh	W3093
Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / 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 / Iwona	05/23/2024 / Iwona	W3109
Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date /	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.	AL70850-8 / Starch Solution, 4L	4408P62	08/31/2026	10/16/2024 / Iwona	10/16/2024 / Iwona	W3149
Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	AL13850-1 / Buffer Solution, PH2 (500ml)	2411E26	10/31/2026	12/09/2024 / Iwona	12/09/2024 / Iwona	W3161
Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	AL14055-3 / PH 4 BUFFER SOLUTION	2411A93	10/30/2026	04/01/2025 / JIGNESH	01/27/2025 / jignesh	W3178
Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-3382-05 / Sand, Purified (cs/4x2.5kg)	25A2756718	12/31/2028	03/10/2025 / Iwona	03/10/2025 / Iwona	W3186
	1	•	I			
Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Supplier PCI Scientific Supply, Inc.	ItemCode / ItemName 1601-1 / PH 10.01 BUFFER,COLOR CD 475ML	Lot # 2410F80	-	=		
PCI Scientific	1601-1 / PH 10.01 BUFFER,COLOR CD		Date	Opened By 04/01/2025 /	Received By 03/13/2025 /	Lot #



Fax: 908 789 8922

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 / lwona	05/21/2025 / lwona	W3212

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	AL14455-3 / buffer solution pH 7 yellow	2504D34	03/31/2027	07/02/2025 / jignesh	06/26/2025 / Iwona	W3217

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



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

Manufactured Date: 2020/05/05

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

Certificate of Analysis

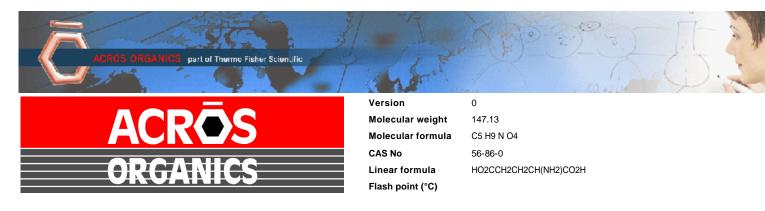
Test	Specification	Result
Assay (CH3(CH2)14CH3) (by GC)	>= 99.0 %	99.3
Infrared Spectrum	Passes Test	PT

For Laboratory, Research or Manufacturing Use

Country of Origin: US

Packaging Site: Paris Mfg Ctr & DC





Certificate of Analysis

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

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

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





L. Van den Broek, QA Manager

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

Issued: 24 January 2020

Thermo Fisher SCIENTIFIC

W 2817 Nec. 04/02/2021

Product Specification

Product Name:

Stearic acid, 98%, Thermo Scientific Chemicals

Catalog Number:

A12244.14

CAS Number:

57-11-4

Molecular Formula:

C18H36O2

Molecular Weight:

284.48

InChl Key:

QIQXTHQIDYTFRH-UHFFFAOYSA-N

SMILES:

CCCCCCCCCCCCCC(O)=O

Synonym:

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

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

Product Specification

Appearance (Color):

White

Form:

Crystals or powder or crystalline powder or flakes or waxy solid

Assay (Silylated GC):

≥97.5%

Melting Point (clear melt):

67.0-74.0?C

Date Of Print:

11/30/2023

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

W3009 Lec. 2/27/2023

12

3050 Spruce Street, Saint Louis, MO 63103, USA

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

Outside USA: eurtechserv@sial.com

Product Name:

Certificate of Analysis

CH₃(CH₂)₁₄CH₃

Hexadecane - ReagentPlus®, 99%

Product Number:

H6703

Batch Number:

SHBP8192

Brand:

SIAL

CAS Number:

544-76-3

MDL Number:

MFCD00008998

Formula:

C16H34

Formula Weight:

226.44 g/mol

Quality Release Date:

04 AUG 2022

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

Larry Coers, Director **Quality Control**

Sheboygan Falls, WI US

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



Certificate of Analysis Page 1 of 1



Certificate of Analysis

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

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

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

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

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

Derisa Bailey- Wyche

Quality Assurance Specialist - Certificate of Analysis Fair Lawn



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

CERTIFICATE OF ANALYSIS

PRODUCT:

SODIUM SULFATE CRYSTALS ANHYDROUS

QUALITY:

ACS (CODE RMB3375)

FORMULA:

Na₂SO₄

MEMPERS A

SPECIFICATION NUMBER: 6399

RELEASE DATE:

MAY/23/2024

LOT NUMBER:

417203

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

QC: PhC Irma Belmares

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

Acetone BAKER RESI-ANALYZED® Reagent For Organic Residue Analysis



Material No.: 9254-03

Batch No.: 24H2762008

Manufactured Date: 2024-04-18

Expiration Date: 2027-04-18

Revision No.: 0

Certificate of Analysis

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

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

Country of Origin: United States

Packaging Site: Phillipsburg Mfg Ctr & DC

Recd by RP cn 03/31/25



Director Quality Operations, Bioscience Production

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





Material No.: 9673-33

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

Retest Date: 2028-03-20

Revision No.: 0

Certificate of Analysis

Test	Specification	Result
ACS - Assay (H2SO4)	95.0 - 98.0 %	96,1 %
Appearance	Passes Test	Passes Test
ACS - Color (APHA)	≤ 10	5
ACS – Residue after Ignition	≤ 3 ppm	< 1 ppm
ACS - Substances Reducing Permanganate (as SO2)	≤ 2 ppm	< 2 ppm
Ammonium (NH ₄)	≤ 1 ppm	1 ppm
Chloride (CI)	≤ 0.1 ppm	< 0.1 ppm
Nitrate (NO₃)	≤ 0.2 ppm	< 0.1 ppm
Phosphate (PO4)	≤ 0.5 ppm	< 0.1 ppm
Trace Impurities – Aluminum (Al)	≤ 30.0 ppb	< 5.0 ppb
Arsenic and Antimony (as As)	≤ 4.0 ppb	< 2.0 ppb
Trace Impurities – Boron (B)	≤ 10.0 ppb	8.5 ppb
Trace Impurities – Cadmium (Cd)	≤ 2.0 ppb	< 0.3 ppb
Trace Impurities - Chromium (Cr)	≤ 6.0 ppb	< 0.4 ppb
Trace Impurities - Cobalt (Co)	≤ 0.5 ppb	< 0.3 ppb
Trace Impurities - Copper (Cu)	≤ 1.0 ppb	< 0.1 ppb
Trace Impurities - Gold (Au)	≤ 10.0 ppb	0.5 ppb
Heavy Metals (as Pb)	≤ 500.0 ppb	< 100.0 ppb
Trace Impurities - Iron (Fe)	≤ 50.0 ppb	1.3 ppb
Trace Impurities - Lead (Pb)	≤ 0.5 ppb	< 0.5 ppb
Trace Impurities - Magnesium (Mg)	≤ 7.0 ppb	0.8 ppb
Trace Impurities – Manganese (Mn)	≤ 1.0 ppb	< 0.4 ppb
Trace Impurities – Mercury (Hg)	≤ 0.5 ppb	< 0.1 ppb
Trace Impurities - Nickel (Ni)	≤ 2.0 ppb	0.3 ppb
Trace Impurities – Potassium (K)	≤ 500.0 ppb	< 2.0 ppb
Trace Impurities - Selenium (Se)	≤ 50.0 ppb	< 0.1 ppb
Trace Impurities – Silicon (Si)	≤ 100.0 ppb	31.5 ppb
Trace Impurities – Silver (Ag)	≤ 1.0 ppb	< 0.3 ppb

>>> Continued on page 2 >>>

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





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

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

For Laboratory, Research, or Manufacturing Use

Country of Origin: USA

Packaging Site: Phillipsburg Mfg Ctr & DC





Certificate of Analysis

Product information

Product

pH-Fix 0.3-2.3

REF

92180

LOT

80A0441

Expiration date:

29.02.2028

Date of examination:

23.01.2024

Gradation:

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

Confirmation

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

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

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

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





M6151

R-> 1/15/25

Material No.: 9530-33

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

Retest Date: 2027-06-14

Revision No.: 0

Certificate of Analysis

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



Certificate of Analysis

Product information

Product:

Silica 60, 0.063 - 0.200 mm

REF:

815330.25

LOT:

072154301

Technical data

Material:

Synthethic amorphus silica (irregular shaped)

Description:

White powder

Parameter	Specifications	Result
Specific surface (m³/g, N2 adsorption):	450 - 550	537
Particle size distribution (screen analysis):	< 63 µm max. 5 %	0.3
	> 200 µm max. 5 %	0.1
pH value:	6.0 - 7.5	7
Water content (%):	<7	3.6
Pore volume (mL/g, N2 adsorption) :	0.65 - 0.85	0.82
Mean pore size (A. N2 adsorption) :	50 - 70	62

Expiry

This product has no stated expiration date or shelf life.

We recommend to use the product within a time period of 5 years after date of QC release.

This time period is valid only if the product is stored under dry and frost-free conditions.

After 5 years we recommend retesting the adsorbent to make sure that the expected performance is still given.

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.

Date of measurement: 16.02.2023 22:00

Certificate of analysis

W3082 Received on 2/26/2026 by IZ

Product No.: A12244

Product: Stearic acid, 98%

Lot No.: U23E020

Appearance White flakes

Assay 98.7 %

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





RICCA CHEMICAL COMPANY

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

customerservice@riccachemical.com

Certificate of Analysis Onlong Concession Co

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

Lot Number: 4401F99

Product Number: 1551

Manufacture Date: JAN 08, 2024

Expiration Date: DEC 2025

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

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

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

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

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

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

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

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

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

faul Drandon

Paul Brandon (01/08/2024)

Production Manager

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

This product was tested in an ISO 17025 Accredited Laboratory

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

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

customerservice@riccachemical.com

Certificate of Analysis

Manganous Sulfate Solution, 364 g/L

Lot Number: 2403J02 Product Number: 4620

Manufacture Date: MAR 15, 2024

Expiration Date: MAR 2026

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

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

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

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

Part Number	Size / Package Type	Shelf Life (Unopened Container)
4620-32	1 L natural poly	24 months

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

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



Jose Pena (03/15/2024)

Operations Manager

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

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

customerservice@riccachemical.com

Certificate of Analysis

Sodium Thiosulfate, 0.0250 Normal (N/40)

Lot Number: 4403S13 Product Number: 7900

Manufacture Date: MAR 29, 2024

Expiration Date: SEP 2025

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

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

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

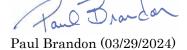
Specification	Reference
Standard Sodium Thiosulfate Solution, 0.0250 N	APHA (4500-S2- F)
Standard Sodium Thiosulfate Titrant	APHA (4500-O D)
Standard Sodium Thiosulfate Titrant	APHA (4500-O E)
Standard Sodium Thiosulfate Titrant	APHA (4500-O F)
Standard Sodium Thiosulfate Titrant, 0.025 N	APHA (4500-Cl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

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

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

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

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



Production Manager

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

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

customerservice@riccachemical.com

Certificate of Analysis

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

Lot Number: 1405D67 Product Number: 535

Manufacture Date: APR 05, 2024

Expiration Date: APR 2026

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

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

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

Specification	Reference	

Alkaline Iodide-Sodium Azide Solution II

ASTM (D 888 A)

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

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

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

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

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



Certificate of Analysis

12/14/2022

12/31/2025

Sodium Hydroxide (Pellets)

Material: 0583

Grade: ACS GRADE Batch Number: 23B1556310

Chemical Formula: NaOH
Molecular Weight: 40

CAS #: 1310-73-2

Appearance: Storage: Room Temperature

Pellets

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

Manufacture Date:

Expiration Date:

Internal ID #: 710

Signature Additional Information

We certify that this batch conforms to the specifications listed.

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

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

28600 Fountain Parkway, Solon OH 44139 USA

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

Product meets analytical specifications of the grades listed.



Certificate of Analysis

12/14/2022

12/31/2025

Room Temperature

Manufacture Date:

Expiration Date:

Storage:

Sodium Hydroxide (Pellets)

Material: 0583

Grade: ACS GRADE Batch Number: 23B1556310

Chemical Formula: NaOH Molecular Weight: 40

CAS #: 1310-73-2

Appearance:

Pellets

Spec Set: 0583ACS

Internal ID #: 710

Signature Additional Information

We certify that this batch conforms to the specifications listed.

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

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

Product meets analytical specifications of the grades listed.

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

customerservice@riccachemical.com

Certificate of Analysis

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

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

Expiration Date: AUG 2026

This product is Mercury-free.

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

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

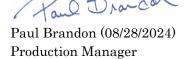
Specification	Reference
Starch Solution	APHA (4500-S2- F)
Starch Indicator Solution	APHA (4500-Cl B)
Starch Indicator	APHA (4500-SO32- B)
Starch indicator solution	APHA (2350 B)
Starch indicator solution	APHA (2350 E)
Starch Solution	APHA (510 B)
Starch Solution	APHA (5530 C)
Starch Indicator	APHA (4500-C1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

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

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

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

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



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

customerservice@riccachemical.com

Certificate of Analysis

Buffer, Reference Standard, pH 2.00 ± 0.01 at 25°C

Lot Number: 2411E26 Product Number: 1493

Manufacture Date: NOV 11, 2024

Expiration Date: OCT 2026

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

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

25 30 35 40 45 50 1.93 1.98 1.98 2.00 2.01 2.03 2.03 2.04 2.04 pН

Name	CAS#	Grade
Water	7732-18-5	ACS/ASTM/USP/EP
Potassium Chloride	7447-40-7	ACS
Hydrochloric Acid	7647-01-0	ACS

	*		
Appearance	Colorless liquid	Passed	*Not a certified value.
Test	Certified Value	Uncertainty	NIST SRM#
pH at 25°C (Method: SQCP027, SQCP033)	1.994	0.02	185i, 186-I-g, 186-II-g

Specification

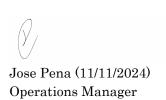
Result

pH measurements were performed in our Pocomoke City, MD laboratory under ISO/IEC 17025 accreditation (ANAB Certificate L2387.01) and are certified traceable to National Institute of Standards and Technology (NIST) Standard Reference Material as indicated above via an unbroken chain of comparisons. The uncertainty is calculated from the uncertainty of the measurement variation from sample to sample, the uncertainty in the NIST Standard Reference Material, and the uncertainty of the measurement process. The uncertainty is multiplied by k=2, corresponding to 95% coverage in a normal distribution. Volumetric glassware complies with Class A tolerance requirements of ASTM E 288 and NIST Circular 434; it is calibrated before first use and recalibrated regularly in accordance with ASTM E 542 and NIST Procedure NBSIR 74-461. Balances are calibrated regularly with weights certified traceable to the NIST national mass standard. Thermometers and temperature probes are calibrated before first use and recalibrated regularly with a thermometer traceable to NIST standards. All products are prepared according to master documents that assure manufacture according to validated methods. Batch records document raw material traceability and production and testing history for each lot manufactured.

Part Number	Size / Package Type	Shelf Life (Unopened Container)
1493-1	4 L natural poly	24 months
1493-16	500 mL natural poly	24 months
1493-1CT	4 L Cubitainer®	24 months
1493-2.5	10 L Cubitainer®	24 months
1493-32	1 L natural poly	24 months

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

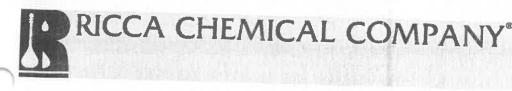
Version: 1.3 Lot Number: 2411E26 Product Number: 1493 Page 1 of 2



This product was tested in an ISO 17025 Accredited Laboratory

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Version: 1.3 Lot Number: 2411E26 Product Number: 1493 Page 2 of 2



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Certificate of Analysis

93178

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

Lot Number: 2411A93

Product Number: 1501

Manufacture Date: NOV 04, 2024

Expiration Date: OCT 2026

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

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

5 10 15 20 25 30 35 45 pH 50 4.00 4.00 4.00 4.00 4.004.00 4.01 4.024.03 4.04 4.06

Name	CAS#	Grade	A DESCRIPTION OF THE PERSON
Water	7732-18-5	ACS/ASTM/USP/	EP
Potassium Acid Phthalate	877-24-7	Buffer	
Preservative Red Dye	Proprietary	Commercial	
neu bye	Proprietary	Purified	THE STATE OF THE S
Test	Specification	Result	
Appearance	Red liquid	Passed	*Not a partiful 1
l'est	Certified Value		*Not a certified val
pH at 25°C (Method: SQCP027, SQCP033)	4.008	Uncertainty	NIST SRM#
Specification	4.008	0.02	185i, 186-I-g, 186-II-g
Specification	Day	THE PARTY ASSESSMENT	

Specification	
Commonaid D. CC. G. L.	Reference
Ruffer R	ASTM (D 1293 B) ASTM (D 5464)
Buffer B	ASTM (D 5464) ASTM (D 5128)
DH measurements were and	ASTM (D 5128)

pH measurements were performed in our Pocomoke City, MD laboratory under ISO/IEC 17025 accreditation (ANAB Certificate L2387.01) and are certified traceable to National Institute of Standards and Technology (NIST) Standard Reference Material as indicated above via an unbroken chain of comparisons. The uncertainty is calculated from the uncertainty of the measurement variation from sample to sample, the uncertainty in the NIST Standard Reference Material, and the uncertainty of the measurement process. The uncertainty is multiplied by k=2, corresponding to 95% coverage in a normal distribution. Volumetric glassware complies with Class A tolerance requirements of ASTM E 288 and NIST Circular 434; calibrated before first use and recalibrated regularly in accordance with ASTM E 542 and NIST Procedure NBSIR 74-461. Balances are before first use and recalibrated regularly with a thermometer traceable to NIST standards. Thermometers and temperature probes are calibrated 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	CO. Yew to day
1501-16		Shelf Life (Unopened Container)
1501-2.5 1501-5	500 mL natural poly	24 months
	10 L Cubitainer®	24 months
Recommended Storage: 15°C	20 L Cubitainer®	24 months



Certificate of Analysis

Material BDH9274-2.5KG

Material Description BDH SAND STDD OTTAWA W+I 2.5KG

Grade NOT APPLICABLE

 Batch
 25A2756718

 Reassay Date
 12/31/2028

 CAS Number
 14808-60-7

 SiO2
 12/31/2028

Molecular Formula SiO2 Molecular Mass 60.09

CUSTOMER PART # BDH9274-2.5KG

Date of Manufacture 12/05/2024

Storage Room Temperature

Characteristics	Specifications	Measured Values
Appearance Moisture	Beige granules.	Beige granules.
Particle Size 30-40 mesh	>= 80 %	99 %

Internal ID #: 793

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.

VWR International LLC, Radnor Corporate Center, Suite 200, 100 Matsonford Road, Radnor, PA 19087, USA

Date Printed: 01/27/2025



RICCA CHEMICAL COMPANY 33191

1841 Broad Street Pocomoke City, MD 21851 http://www.riccachemical.com

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

Certificate of Analysis

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

Lot Number: 2410F80

Product Number: 1601

Manufacture Date: OCT 09, 2024

Expiration Date: MAR 2026

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

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

20 25 30 pН 35 10.31 10.23 40 50 10.1710.11 10.05 10.00 9.95 9.91 9.87 9.81

Name	STEEL ST		
Water	CAS#	Grade	
Sodium Carbonate	7732-18-5	ACS/ASTM/USP/EP	
Sodium Bicarbanata	497-19-8	ACS	U 100 Hill 2
Sodium Hydroxida	144-55-8	ACS	
Processing	1310-73-2	Keagent	
Blue Dye	Proprietary		
Dide Dye	Proprietary		Street Street
l'est	1 The Republic was a second	· ·	Thinks

Appearance	Specification	Result	
Test	Blue liquid	Passed	*Not a certified value
	Certified Value	Uncertainty	
pH at 25°C (Method: SQCP027, SQCP033) Specification	10.009	0.00	186-I-g, 186-II-g, 191d

Specification	0.02	186-I-g, 186-II-g, 191d
Commoraial P. Co. C. J.	Reference	
Buffer C	ASTM (D 1293 B)	
Buffer C	ASTM (D 54CA)	0 × 20 1 0 30 010 1000
pH measurements were performed in our Pocomoke City, MD laboratory up		
cortified the delivery was common and the cortified the co	adou ICO TEO	**************************************

pH measurements were performed in our Pocomoke City, MD laboratory under ISO/IEC 17025 accreditation (ANAB Certificate L2387.01) and are certified traceable to National Institute of Standards and Technology (NIST) Standard Reference Material as indicated above via an unbroken chain of comparisons. The uncertainty is calculated from the uncertainty of the measurement variation from sample to sample, the uncertainty in the NIST Standard Reference Material, and the uncertainty of the measurement process. The uncertainty is multiplied by k=2, corresponding to 95% coverage in a normal distribution. Volumetric glassware complies with Class A tolerance requirements of ASTM E 288 and NIST Circular 434; it is calibrated before first use and recalibrated regularly in accordance with ASTM E 542 and NIST Procedure NBSIR 74-461. Balances are calibrated regularly with weights certified traceable to the NIST national mass standard. Thermometers and temperature probes are calibrated before first use and recalibrated regularly with a thermometer traceable to NIST standards. All products are prepared according to master documents that assure manufacture according to validated methods. Batch records document raw material traceability and production and testing

Part Number		and production and testing
1601-1	Size / Package Type	Shelf Life (Time Lo
1601-16	4 L natural poly 500 mL natural poly	Shelf Life (Unopened Container) 18 months
1601-16 1601-1CT	500 mL natural poly 4 L Cubitainer®	18 months
2.0	4 L Cubitainer® 10 L Cubitainer®	18 months
	1 L natural poly	18 months
	1 L natural poly 20 L Cubitainer®	18 months
ersion: 1.3	Lot Number: 2410F80	18 months

Lot Number: 2410F80

Product Number: 1601

Page 1 of 2

customerservice@riccachemical.com

Certificate of Analysis

Buffer, Reference Standard, pH 12.00 ± 0.01 at 25°C

Lot Number: 2504F20 Product Number: 1615

Manufacture Date: APR 08, 2025

Expiration Date: SEP 2026

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

Name	CAS#	Grade
Water	7732-18-5	ACS/ASTM/USP/EP
Potassium Chloride	7447-40-7	ACS
Sodium Hydroxide	1310-73-2	Reagent (from ACS)

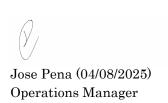
Test	Specification	nesuit	
Appearance	Colorless liquid	Passed	*Not a certified value.
Test	Certified Value	Uncertainty	NIST SRM#
pH at 25°C (Method: SQCP027, SQCP033)			-

pH measurements were performed in our Pocomoke City, MD laboratory under ISO/IEC 17025 accreditation (ANAB Certificate L2387.01) and are certified traceable to National Institute of Standards and Technology (NIST) Standard Reference Material as indicated above via an unbroken chain of comparisons. The uncertainty is calculated from the uncertainty of the measurement variation from sample to sample, the uncertainty in the NIST Standard Reference Material, and the uncertainty of the measurement process. The uncertainty is multiplied by k=2, corresponding to 95% coverage in a normal distribution. Volumetric glassware complies with Class A tolerance requirements of ASTM E 288 and NIST Circular 434; it is calibrated before first use and recalibrated regularly in accordance with ASTM E 542 and NIST Procedure NBSIR 74-461. Balances are calibrated regularly with weights certified traceable to the NIST national mass standard. Thermometers and temperature probes are calibrated before first use and recalibrated regularly with a thermometer traceable to NIST standards. All products are prepared according to master documents that assure manufacture according to validated methods. Batch records document raw material traceability and production and testing history for each lot manufactured.

Part Number	Size / Package Type	Shelf Life (Unopened Container)
1615-1	4 L natural poly	18 months
1615-16	500 mL clear PET-G	18 months
1615-5	20 L Cubitainer®	18 months

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

Version: 1.3 Lot Number: 2504F20 Product Number: 1615 Page 1 of 2



This product was tested in an ISO 17025 Accredited Laboratory

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Version: 1.3 Lot Number: 2504F20 Product Number: 1615 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

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

MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: United States

Packaging Site: Phillipsburg Mfg Ctr & DC



Director Quality Operations, Bioscience Production

N3212 Deceived on 5/21/25 by 12



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

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

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

FORMULATION:

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

VIABLE COUNT, FINAL TEST RESULT:

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

GLUCOSE/GLUTAMIC-ACID RESULTS:

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

See www.polyseed.com for details.

SEED CONTROL FACTOR:

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

SALMONELLA TEST RESULT:

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

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

Signature:

Date: 09/13/2024

Quality Control Department

POLYSEED.Ref.1.19

Revised Jan 24





customerservice@riccachemical.com

Certificate of Analysis

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

Lot Number: 2504D34 Product Number: 1551

Manufacture Date: APR 03, 2025

Expiration Date: MAR 2027

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

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

15 20 30 35 45 50 рH 7.12 7.09 7.06 7.04 7.02 7.00 6.99 6.98 6.98 6.97 6.97

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

	Test	Specification	\mathbf{Result}	
•	Appearance	Yellow liquid	Passed	*Not a certified value.
	Test	Certified Value	Uncertainty	NIST SRM#

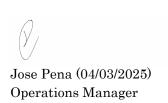
Specification	Reference
Commercial Buffer Solutions	ASTM (D 1293 B)
Buffer A	ASTM (D 5464)
Buffer A	ASTM (D 5128)

pH measurements were performed in our Pocomoke City, MD laboratory under ISO/IEC 17025 accreditation (ANAB Certificate L2387.01) and are certified traceable to National Institute of Standards and Technology (NIST) Standard Reference Material as indicated above via an unbroken chain of comparisons. The uncertainty is calculated from the uncertainty of the measurement variation from sample to sample, the uncertainty in the NIST Standard Reference Material, and the uncertainty of the measurement process. The uncertainty is multiplied by k=2, corresponding to 95% coverage in a normal distribution. Volumetric glassware complies with Class A tolerance requirements of ASTM E 288 and NIST Circular 434; it is calibrated before first use and recalibrated regularly in accordance with ASTM E 542 and NIST Procedure NBSIR 74-461. Balances are calibrated regularly with weights certified traceable to the NIST national mass standard. Thermometers and temperature probes are calibrated before first use and recalibrated regularly with a thermometer traceable to NIST standards. All products are prepared according to master documents that assure manufacture according to validated methods. Batch records document raw material traceability and production and testing history for each lot manufactured.

Part Number	Size / Package Type	Shelf Life (Unopened Container)
1551-2.5	10 L Cubitainer®	24 months
1551-20	20 x 20 mL pack	24 months
1551-32	1 L natural poly	24 months
1551-5	20 L Cubitainer®	24 months

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

Version: 1.3 Lot Number: 2504D34 Product Number: 1551 Page 1 of 2



This product was tested in an ISO 17025 Accredited Laboratory

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Version: 1.3 Lot Number: 2504D34 Product Number: 1551 Page 2 of 2

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

An ISO 9001 Certified Company

Certificate of Analysis

This is a Component of 1486266 / LOT A5105

PRODUCT: BOD Nutrient Buffer Pillows

PRODUCT NUMBER: 1486227 LOT NUMBER: A5105

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

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

The expiration date is May 2030

Certified by: Scottals

Analytical Services Chemist



SHIPPING DOCUMENTS



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

ALLIANCE PI	OJECT NO.
QUOTE NO.	€ 3057
COC Number	2017573

CLIENT INFORMATION					CLIENT PROJECT INFORMATION								CLIENT BILLING INFORMATION								
COMPANY: MATOR PRODUCTS CO				PROJE	PROJECT NAME: Floordrainwator BILLTO: MAJOS										5	PO#:					
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ATTENTION: PAUL Bustamante				e-mail: AND SECONA CORPROSUCTS. CON ATTENTION: PHONE:																	
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Laboratory Certification

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

QA Control Code: A2070148