

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



LAB CHRONICLE

OrderID: P4931

Contact:

Client: Aramark Uniforms

Jose Liceaga

OrderDate: 11/20/2024 8:56:00 AM

Project: Monthly 2024

Location: M11

LabID	ClientID	Matrix	Test	Method Sample Da	e Prep Date	Anal Date	Received
P4931-01	GRAB	WATER		11/20/24 08:18			11/20/24
			TPH	1664A		11/22/24 09:20	
P4931-02	СОМР	WATER		11/20/24			11/20/24
				08:22			
			BOD5	SM5210 B		11/21/24	
						17:20	
			TSS	SM2540 D		11/25/24 10:00	



SAMPLE DATA



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

Fax: 908 789 8922

Report of Analysis

Client: Aramark Uniforms Date Collected: 11/20/24 08:18 Project: Date Received: Monthly 2024 11/20/24 Client Sample ID: GRAB SDG No.: P4931 Lab Sample ID: P4931-01 Matrix: WATER % Solid: 0

Parameter	Conc. Qua.	DF MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
TPH	75.3	1 0.40	5.00	mg/L		11/22/24 09:20	1664A

Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

D = Dilution

Q = indicates LCS control criteria did not meet requirements

H = Sample Analysis Out Of Hold Time

J = Estimated Value

B = Analyte Found in Associated Method Blank

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

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

OR = Over Range

N =Spiked sample recovery not within control limits



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

Fax: 908 789 8922

Report of Analysis

Client: Aramark Uniforms Date Collected: 11/20/24 08:22 Project: Monthly 2024 Date Received: 11/20/24 Client Sample ID: COMP SDG No.: P4931 Lab Sample ID: P4931-02 Matrix: WATER % Solid: 0

Parameter	Conc. Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
BOD5	425	1	0.17	2.00	mg/L		11/21/24 17:20	SM 5210 B-16
TSS	394	1	1.00	4.00	mg/L		11/25/24 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

N =Spiked sample recovery not within control limits



QC RESULT SUMMARY





Preparation Blank Summary

Client: Aramark Uniforms SDG No.: P4931

Project: Monthly 2024

Analyte	Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID: BOD5	LB133547BL mg/L	< 0.2000	0.2000	U	0.17	2.0	11/21/2024
Sample ID:	LB133572BL mg/L	< 2.5000	2.5000	Ū	0.4	5.0	11/22/2024
Sample ID:	LB133608BL mg/L	< 2.0000	2.0000	Ū	1	4	11/25/2024



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Duplicate Sample Summary

Client: Aramark Uniforms SDG No.: P4931

Project: Monthly 2024 Sample ID: LB133572BS

Client ID: LB133572BSD 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	17.0		17.1		1	0.59		11/22/2024



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Duplicate Sample Summary

Client: Aramark Uniforms SDG No.: P4931

Project: Monthly 2024 **Sample ID:** P4931-02

Client ID: COMPDUP Percent Solids for Spike Sample: 0

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/ AD	Qual	Analysis Date	
BOD5	mg/L	+/-20	425		443		1	4.15		11/21/2024	_



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Fax: 908 789 8922

Duplicate Sample Summary

Client: Aramark Uniforms SDG No.: P4931

Project: Monthly 2024 Sample ID: P4967-01

Client ID: 001-WILLETS-PT-BLVDDUP Percent Solids for Spike Sample: 0

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/ AD	Qual	Analysis Date
TSS	mg/L	+/-5	38.8		40.0		1	3.05		11/25/2024



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

Laboratory Control Sample Summary

Client: Aramark Uniforms SDG No.: P4931

Monthly 2024 LB133547 **Project:** Run No.:

Analyte		Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID	LB133547BS								
BOD5		mg/L	198	194		98	1	84.6-115.4	11/21/2024





Laboratory Control Sample Summary

Client: Aramark Uniforms SDG No.: P4931

Project: Monthly 2024 Run No.: LB133572

Analyte		Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID	LB133572BS								
TPH		mg/L	20.0	17.0		85	1	78-114	11/22/2024





Laboratory Control Sample Summary

Client: Aramark Uniforms SDG No.: P4931

Project: Monthly 2024 Run No.: LB133572

Analyte		Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID	LB133572BSD								
TPH		mg/L	20.0	17.1		86	1	78-114	11/22/2024





Laboratory Control Sample Summary

Client: Aramark Uniforms SDG No.: P4931

Project: Monthly 2024 Run No.: LB133608

Analyte		Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID	LB133608BS								
TSS		mg/L	550	536		98	1	90-110	11/25/2024



RAW DATA

Alliance

QC BATCH ID: LB133547

Sulfuric acid, 1N: WP110386

Chlorine Strips: W2965

pH Strips: W3104

BOD Water: WP110798

Starch: W3149

POLYSEED: WP110800

GGA: WP110799

BOD5 LOG

ANALYST: rubir nst ld:DO METER

Reviewed By:Iwona On:11/26/2024 2:57:36

SUPERVISOR: Iwona

Analysis Date: 11/21/2024

MANGANOUS SULFATE SOLUTION: W3103

Alkaline Iodide Azide: W3109

Sodium Thiosulfate, 0.025N: W3105

NaOH, 1N: WP108662

IncubatorID: INCUBATOR #3

GuageID: 0511062

Zero DO: WP110595

Lab SampleID	Client ID	Bottle No.	VOL.	Initial Reading (ML)	Final Reading(ML)	Difference	Average
WINKLER 1	WINKLER 1	1	300	0.0	9.4	9.4	9.4
WINKLER 2	WINKLER 2	2	300	9.2	18 6	9 Д	9 4

Meter Calibration1: 8.86 Zero DO Reading1: 0.10 mg/L (<=0.2 Criteria)

Barometric Pressure1: 755 mmHg DO Meter BOD fluid reading for winkler comparison: 9.45

After Incubation

Meter Calibration2: 8.89 Zero DO Reading2: 0.12 mg/L (<=0.2 Criteria)

Barometric Pressure2: 760 mmHg



QC BATCH ID: LB133547

INCUBATOR TEMP IN(C): 20.3

TIME IN: 17:20

DATE IN: 11/21/2024

INCUBATOR TEMP OUT (C): 20.3

TIME OUT: 11:50

DATE OUT: 11/26/2024

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
LB133547BL	1	No	6.64	N/A	20.40	300	9.44	9.42	0.02	0.02	0.02	
POLYSEED	1					10	9.30	6.98	2.32	0.46	0.48	
POLYSEED	2					15	9.28	5.53	3.75	0.5		
POLYSEED	3					20	9.25	4.59	4.66	0.47		
GGA	1					6	9.29	5.07	4.22	187	194	
GGA	2					6	9.25	4.97	4.28	190		
GGA	3					6	9.25	4.67	4.58	205		
P4931-02	1	No	7.02	N/A	20.40	0.5	9.20	7.80	-	0	424.5	
P4931-02	2					1	9.09	7.36	-	0		
P4931-02	3					2	8.82	5.51	3.31	424.5		
P4931-02	4					3	8.68	0.90	-	0		
P4931-02DUP	1	No	7.02	N/A	20.40	0.5	9.18	7.67	-	0	442.5	
P4931-02DUP	2					1	9.07	7.40	-	0		
P4931-02DUP	3					2	8.82	5.39	3.43	442.5		
P4931-02DUP	4					3	8.66	0.91	-	0		
P4937-01	1	No	8.64	7.08	20.20	0.5	9.20	6.57	2.63	1290	556.86	pH Adjuste
P4937-01	2					1	9.15	6.08	3.07	777		
P4937-01	3					2	8.93	5.82	3.11	394.5		
P4937-01	4					5	8.25	5.24	3.01	151.8		
P4937-01	5					10	7.33	1.15	6.18	171		
P4937-05	1	No	4.60	6.89	20.30	0.01	9.21	6.73	2.48	60000	30220	pH Adjuste
P4937-05	2					0.05	9.12	5.68	3.44	17760		
P4937-05	3					0.1	8.95	4.17	4.78	12900		
P4937-05	4					0.5	8.45	0.28	-	0		
P4937-05	5					1	8.23	0.07	-	0		
P4947-01	1	No	9.06	7.22	20.00	5	9.20	8.82	-	0		pH Adjuste
P4947-01	2					20	9.08	8.62	-	0		
P4947-01	3					50	9.04	8.32	-	0		
P4947-01	4					150	9.01	8.02	-	0		

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

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

Reviewed By:Iwona On:11/26/2024 2:57:36 PM Inst Id :DO METER LB :LB133547

RIMCOLD

WORKLIST(Hardcopy Internal Chain)

16133547

WorkList ID: 185630

Department: Wet-Chemistry

Raw Sample

Storage Location

Customer

Preservative

Test

Matrix

Customer Sample

Sample

bod5-11-21

WorkList Name:

Date: 11-21-2024 08:38:37

Collect Date Method

SM5210 B SM5210 B

11/20/2024 11/20/2024

M11 M11 M 11

ARAM01

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

BOD5 BOD5 BOD5

Water Water Water

> EFFLUENT INFLUENT

COMP

P4931-02 P4937-01 P4937-05

HOLL01 HOLL01

11/20/2024 SM5210 B

11/21/2024 Date/Time

Raw Sample Received by:

Raw Sample Relinquished by:

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Raw Sample Relinquished by:

Raw Sample Received by:

11/21/2024

Date/Time

16133547

WORKLIST (Hardcopy Internal Chain)

24 14:25:00	Method		11/21/2024 SM5210 B	
Date: 11-21-2024 14:25:00	Collect Date Method		11/21/2024	
Dat	Raw Sample Storage Location		L61	
Wet-Chemistry	Customer		PSEG03 L61	
Department: Wet-Chemistry	Preservative		Cool 4 deg C	
WorkList ID: 185660	Matrix Test	ndod refeM	water BODS	
BOD5-11-21-	Customer Sample	A3988		
WorkList Name: BOD5-11-21-	Sample	P4947-01		

Date/Time 11/21/2024 Raw Sample Received by:

Raw Sample Relinquished by:

Page 1 of 1

Raw Sample Received by: Raw Sample Relinquished by:

Date/Time 11/21/2024

of 1



Extraction and Analytical Summary Report

Analysis Method: 1664A

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

Run Number: LB133572

Analysis Date: 11/22/2024

BalanceID: WC SC-6

OvenID: EXT OVEN-3

ANALYST: jignesh

REVIEWED BY: Iwona

Extraction Date: 11/22/2024

Extration IN Time: 08:11

Extration OUT Time: $\overline{09:00}$

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	LB133572BL	LB133572BL	WATER	1.3	1000	100	3.2896	3.2896	3.02	3.2897	3.2897	0.0001	0.1
2	LB133572BS	LB133572BS	WATER	1.3	1000	100	2.8743	2.8743	3.03	2.8913	2.8913	0.0170	17
3	LB133572BSD	LB133572BSD	WATER	1.3	1000	100	3.1157	3.1157	3.04	3.1328	3.1328	0.0171	17.1
4	P4931-01	GRAB	WATER	1.6	1000	100	3.0797	3.0797	3.03	3.1550	3.1550	0.0753	75.3
5	P4947-01	A3988	WATER	1.6	1000	100	3.0706	3.0706	3.05	3.0766	3.0766	0.0060	6



QC Batch# LB133572

Test: TPH

Analysis Date: 11/22/2024

Chemicals Used:

Chemical Name	Chemical Lot #				
HEXANE	W3110				
pH Paper 0-14	М6069				
Sodium Sulfate	EP2562				
1:1 HCL	WP108566				
Silica Gel	W3079				
Sand	NA				

Standards Used:

Standard Name	Amount Used	Standard Lot #
LCSW	5.00 ML	WP108567
LCSWD	5.00 ML	WP108568
MS/MSD	NA	NA

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: 10:01

1.0000 gram Balance: 1.0004 (0.9950-1.0050) In Time1: 09:20

Out OVEN TEMP1: 70 °C 08:19 Bal Check Time: Dessicator Time Out1: 10:37

> 10:00 Out Time1:

After Analysis

In OVEN TEMP2 : 71 °C Dessicator Time In2 : 12:11 0.0020 gram Balance: 0.0019 (0.0018-0.0022)

11:20 In Time2: 1.0000 gram Balance: 1.0005 (0.9950-1.0050)

Out OVEN TEMP2: 71 °C Dessicator Time Out2: 12:39 12:41 Bal Check Time:

> 12:10 Out Time2:

Reviewed By:Iwona On:11/22/2024 9:37:21 AM Inst Id :WC SC-3

WORKLIST(Hardcopy Internal Chain)

N 1335 FD

Date: 11-22-2024 07:47:49

Collect Date Method

Raw Sample Storage

Customer

Preservative

Test

Matrix

Customer Sample

Sample

Location

1664A

11/20/2024

M11 L61

ARAM01

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

TPH 표

Water Water

A3988

P4947-01 P4931-01

GRAB

PSEG03

11/21/2024 1664A

Department: Wet-Chemistry

WorkList ID: 185666

tph p4947

WorkList Name:

リトトネイト Raw Sample Received by: Date/Time

Raw Sample Relinquished by:

Page 1 of 1

Raw Sample Received by:

Raw Sample Relinquished by:

Date/Time 11-22-34 08 100



TOTAL SUSPENDED SOLIDS - SM2540D

SUPERVISOR: Iwona

ANALYST: Niha

Date: 11/22/2024

Run Number: LB133608

103 °C 11/22/2024 14:00 TEMP1 OUT: 104 °c 11/22/2024 15:00 TEMP1 IN: BalanceID: WC SC-6 103 °C 11/22/2024 15:30 TEMP2 OUT: 104 °C 11/22/2024 16:30 TEMP2 IN: OvenID: WC OVEN-1 103 °c 11/25/2024 11:30 104 °C 11/25/2024 10:00 TEMP3 OUT: TEMP3 IN: **FilterID:** 17416528 104 °C 11/25/2024 12:00 TEMP4 OUT: 103 °c 11/25/2024 13:30 TEMP4 IN: ThermometerID: WET OVEN#1

Dish #	Lab ID	Client ID	Empty Dish Weight (g)	Final Empty Dish Weight (g)	Sample Volume (ml)	1st Empty Dish+Sample weight after 1.5hr drying @103-@105°C (g)	2nd Empty Dish+Sample weight after 1.5hr drying @103-@105°C (g)	Final Empty Dish+Sample weight after 1.5hr drying @103-@105°C (g)	Weight (g)	Result mg/L
1	LB133608BL	LB133608BL	1.3786	1.3786	100	1.3786	1.3786	1.3786	0.0000	0
2	LB133608BS	LB133608BS	1.4025	1.4025	100	1.4561	1.4561	1.4561	0.0536	536
3	P4931-02	COMP	1.3987	1.3987	50	1.4184	1.4184	1.4184	0.0197	394
4	P4937-01	EFFLUENT	1.4033	1.4033	20	1.5300	1.5300	1.5300	0.1267	6335
5	P4937-04	AERATION TK 1	1.3991	1.3991	20	1.5060	1.5060	1.5060	0.1069	5345
6	P4947-01	A3988	1.3876	1.3876	750	1.4323	1.4323	1.4323	0.0447	59.6
7	P4967-01	001-WILLETS-PT-BLVD	1.4068	1.4068	250	1.4165	1.4165	1.4165	0.0097	38.8
8	P4967-01DUP	001-WILLETS-PT-BLVDDUP	1.4124	1.4124	250	1.4224	1.4224	1.4224	0.0100	40
9	P4967-02	002-35TH-AVE	1.4063	1.4063	250	1.4207	1.4207	1.4207	0.0144	57.6
10	P4969-01	TOWER-1	1.3946	1.3946	1750	1.4030	1.4030	1.4030	0.0084	4.8
11	P4969-03	TOWER-2	1.4004	1.4004	3000	1.4087	1.4087	1.4087	0.0083	2.8

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

Neviewed By:Iwona On:11/25/2024 1:46:47 PM Inst Id :WC SC-3 LB :LB133608

Chain
Internal
WORKLIST(Hardcopy

WorkList Name: TSS-11212024

LB133608

WorkList Name:	TSS-11212024	WorkList ID:	ID: 185656	Department: Wet-Chemistry	E-Chemistry	£		
Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Co	Date: 11-21-2024 14:38:29 e Collect Date Method	4 14:38:29 Method
P4931-02	COMP	Motor						
1000		Japan	200	Cool 4 deg C	ARAM01	M11	11/20/2024 SA42540 E	040540
P4947-01	A3988	Water	TSS	(= 0 COO			11/20/2024	OIMZS4U D
P4969-01	TOWER-1	Motor	i de	Cool 4 deg C	PSEG03	L61	11/21/2024	SM2540 D
		vvaler	133	Cool 4 deg C	PSEG04	181	11/22/2001	20710740
P4969-03	TOWER-2	Water	SSF				11/42/2024	SMZ540 D
P4937-01	FEELLENT			Cool 4 deg C	PSEG04	L61	11/22/2024	SM2540 D
	II COLINI	Water	TSS	Cool 4 deg C	HO! 04	M44		
P4937-04	AERATION TK 1	Water	TSS		1075		11/20/2024 SM2540 D	SM2540 D
P4967-01	CALLANT TO STATE INVITED			Cool 4 deg C	HOLL01	M11	11/20/2024 SM2540 D	SM2540 D
	COL-VAILLE I S-P I -BLVD	Water	TSS	Cool 4 dea C	F0 = 1E			
P4967-02	002-35TH-AVE	146-4-	- COL	0	IOFFOI	L51 1	11/21/2024 SM2540 D	SM2540 D
		waler	200	Cool 4 deg C	TULL01	L51	11/21/2024 SM2540 D	SM2540 D
								0 01031110

Date/Time 11.25.202.

Date/Time 11.25 2024

Raw Sample Relinquished by: Raw Sample Received by:

Raw Sample Relinquished by: Raw Sample Received by:

Page 1 of 1



Instrument ID: DO METER

Daily Analysis Runlog For Sequence/QCBatch ID # LB133547

Review By	rub	ina	Review On	11/26/2024 2:57:18 PM					
Supervise By	lwo	ona	Supervise On	11/26/2024 2:57:36 PM					
SubDirectory	LB′	133547	Test	BOD5					
STD. NAME		STD REF.#							
ICAL Standard		N/A							
ICV Standard		N/A							
CCV Standard		N/A	N/A						
ICSA Standard		N/A							
CRI Standard		N/A							
LCS Standard		N/A							
Chk Standard		WP110798,W3149,WP110386,W3103,W3109,W3105,WP110800,WP110799,WP108662							

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	LB133547BL	LB133547BL	МВ	11/21/24 17:20		rubina	ок
2	LB133547BS	LB133547BS	LCS	11/21/24 17:20		rubina	ок
3	P4931-02	COMP	SAM	11/21/24 17:20	Intermediate dilution	rubina	ОК
4	P4931-02DUP	COMPDUP	DUP	11/21/24 17:20	Intermediate dilution	rubina	ОК
5	P4937-01	EFFLUENT	SAM	11/21/24 17:20	Intermediate dilution	rubina	ок
6	P4937-05	INFLUENT	SAM	11/21/24 17:20	Intermediate dilution	rubina	ОК
7	P4947-01	A3988	SAM	11/21/24 17:20		rubina	ОК



Instrument ID: WC SC-3

Daily Analysis Runlog For Sequence/QCBatch ID # LB133572

Review By	jign	nesh	Review On	11/22/2024 9:12:30 AM					
Supervise By	lwc	ona	Supervise On	11/22/2024 9:37:21 AM					
SubDirectory	LB	133572	Test	TPH					
STD. NAME		STD REF.#							
ICAL Standard		N/A							
ICV Standard		N/A							
CCV Standard		N/A	N/A						
ICSA Standard		N/A	N/A						
CRI Standard		N/A							
LCS Standard		N/A							
Chk Standard		W3110,M6069,EP2562,	WP108566,W3079,NA,WP108567,WP	108568,NA					

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	LB133572BL	LB133572BL	МВ	11/22/24 09:20		jignesh	ок
2	LB133572BS	LB133572BS	LCS	11/22/24 09:20		jignesh	ок
3	LB133572BSD	LB133572BSD	LCSD	11/22/24 09:20		jignesh	ОК
4	P4931-01	GRAB	SAM	11/22/24 09:20		jignesh	ОК
5	P4947-01	A3988	SAM	11/22/24 09:20		jignesh	ОК



Instrument ID: WC SC-3

Daily Analysis Runlog For Sequence/QCBatch ID # LB133608

Review By	Nih	a	Review On	11/25/2024 1:38:03 PM
Supervise By	lwo	ona	Supervise On	11/25/2024 1:46:47 PM
SubDirectory	LB	133608	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	LB133608BL	LB133608BL	MB	11/25/24 10:00		Niha	ок
2	LB133608BS	LB133608BS	LCS	11/25/24 10:00		Niha	ОК
3	P4931-02	COMP	SAM	11/25/24 10:00		Niha	ОК
4	P4937-01	EFFLUENT	SAM	11/25/24 10:00		Niha	ОК
5	P4937-04	AERATION TK 1	SAM	11/25/24 10:00		Niha	ОК
6	P4947-01	A3988	SAM	11/25/24 10:00		Niha	ОК
7	P4967-01	001-WILLETS-PT-BL\	SAM	11/25/24 10:00		Niha	ок
8	P4967-01DUP	001-WILLETS-PT-BL\	DUP	11/25/24 10:00		Niha	ОК
9	P4967-02	002-35TH-AVE	SAM	11/25/24 10:00		Niha	ОК
10	P4969-01	TOWER-1	SAM	11/25/24 10:00		Niha	ОК
11	P4969-03	TOWER-2	SAM	11/25/24 10:00		Niha	ОК



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

8900, Fax: 908 789 8922

Prep Standard - Chemical Standard Summary

Order ID :	P4931
Test :	BOD5,TPH,TSS
Prepbatch ID :	
Sequence ID/Qc Bate	ch ID: LB133547,LB133572,LB133608,
Standard ID:	WP108567,WP108568,WP108662,WP110386,WP110798,WP110799,WP110800,
L1 2002, VV1 100000, V	WI 100007, WI 100000, WI 1100000, WI 110700, WI 1107000,
Chemical ID :	
	,M5943,M6069,W2606,W2653,W2654,W2817,W2871,W3009,W3030,W3079,W3082,W3103,W31 3112,W3113,W3144,W3149,
05,005,005,005,005	5112,000110,000144,000140,





Extractions STANDARD PREPARATION LOG

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>	RUPESHKUMAR
3923	Baked Sodium Sulfate	EP2562	11/14/2024	01/03/2025	Rajesh Parikh	Extraction_SC	None	SHAH
						ALE_2		11/14/2024
FDOM	4000 00000gram of E2551 = Final C	Quantity: 400	00.000 gram			(EX-SC-2)		

FRON	4000.00000gram of E3531	- 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	WP108566	06/27/2024	10/24/2024	Jignesh Parikh	None	None	Ţ
								06/27/2024

FROM 500.00000ml of M5943 + 500.00000ml of W2606 = Final Quantity: 1.000 L



Alliance

Fax: 908 789 8922

Wet Chemistry STANDARD PREPARATION LOG

Recipe ID	NAME	<u>NO.</u>	Prep Date	Expiration Date	Prepared By	<u>ScaleID</u>	<u>PipetteID</u>	Supervised By Iwona Zarych
2470	1664A SPIKING SOLN	WP108567	06/27/2024	12/25/2024	Jignesh Parikh	None	None	,
								06/27/2024

FROM	1000.00000ml of E3/26 + 4.00000gra	m of W2817 + 4.00000gram of W2871	= Final Quantity: 1000.000 ml

Recipe				Expiration	<u>Prepared</u>			Supervised By
<u>ID</u>	<u>NAME</u>	<u>NO.</u>	Prep Date	<u>Date</u>	<u>By</u>	<u>ScaleID</u>	<u>PipetteID</u>	Iwona Zarych
3374	1664A QCS spiking solution-SS	WP108568	06/27/2024	12/25/2024	Jignesh Parikh	WETCHEM_S	None	
						CALE_4 (WC		06/27/2024

FROM 1000.00000ml of E3726 + 4.00000gram of W3009 + 4.00000gram of W3082 = Final Quantity: 1000.000 ml



Wet Chemistry STANDARD PREPARATION LOG

Recipe				Expiration	Prepared			Supervised By
<u>ID</u>	<u>NAME</u>	NO.	Prep Date	<u>Date</u>	<u>By</u>	<u>ScaleID</u>	<u>PipetteID</u>	Iwona Zarych
1571	Sodium hydroxide, 1N	WP108662	07/09/2024	01/09/2025	Rubina Mughal	WETCHEM_S	None	, ,
						CALE_5 (WC		07/11/2024
FROM	4.00000gram of W3113 + 96.00000m	nl of W3112	= Final Quan	tity: 100.000 r	nl	SC-5)		

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

Recipe				Expiration	<u>Prepared</u>			Supervised By
<u>ID</u>	<u>NAME</u>	<u>NO.</u>	Prep Date	<u>Date</u>	<u>By</u>	<u>ScaleID</u>	<u>PipetteID</u>	Iwona Zarych
1841	Sulfuric Acid, 1N	WP110386	10/24/2024	04/24/2025	Rubina Mughal	None	WETCHEM_F	•
							IPETTE_3	10/24/2024

2.80000ml of M5673 + 97.20000ml of W3112 = Final Quantity: 100.000 ml **FROM**



Aliance TECHNICAL GROUP

Fax: 908 789 8922

Wet Chemistry STANDARD PREPARATION LOG

Recipe ID	NAME	<u>NO.</u>	Prep Date	Expiration Date	Prepared By	<u>ScaleID</u>	<u>PipetteID</u>	Supervised By Iwona Zarych
127	BOD Dilution fluid	WP110798	11/21/2024	11/22/2024	Rubina Mughal	None	None	
								11/21/2024

Recipe ID	NAME	<u>NO.</u>	Prep Date	Expiration Date	Prepared By	<u>ScaleID</u>	<u>PipettelD</u>	Supervised By Iwona Zarvch
129	Glutamic acid-glucose mix for BOD	<u>WP110799</u>	11/21/2024	11/21/2024	Rubina Mughal	WETCHEM_S CALE_7 (WC	None	11/21/2024

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





Wet Chemistry STANDARD PREPARATION LOG

Recipe ID 128	NAME polyseed seed control	NO. WP110800	Prep Date 11/21/2024		<u>Prepared</u> <u>By</u> Rubina Mughal	<u>ScaleID</u> None	PipetteID None	Supervised By Iwona Zarych 11/21/2024
FROM	1.00000PILLOW of W3030 + 300.00	000ml of WF	P110798 = Fil	nal Quantity: 30	00.000 ml			



CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	PC19631-100 / SODIUM SULFATE, ANHYDROUS, PEST GRADE, 1	313201	01/03/2025	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)	1234	12/25/2024	02/26/2024 / Rajesh	02/23/2024 / Rajesh	E3726
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	09/21/2023 / mohan	09/05/2023 / mohan	M5673
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	12/24/2024	06/24/2024 / Al-Terek	06/21/2024 / Al-Terek	M5943
		1 04 #	Expiration	Date Opened /	Received Date /	Chemtech
Supplier	ItemCode / ItemName	Lot #	Date	Opened By	Received By	Lot #
Supplier PCI Scientific Supply, Inc.	140440 / TEST PAPERS,PH,0-2.5,.2SENSI, 100PK	80A0441	Date 02/29/2028	Opened By 09/03/2024 / jignesh	08/19/2024 / Jaswal	M6069
PCI Scientific	140440 / TEST PAPERS,PH,0-2.5,.2SENSI,			09/03/2024 /	08/19/2024 /	



CHEMICAL RECEIPT LOG BOOK

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 #
Seidler Chemical	H223-57 / Hexadecane, 99.0%	SHBP8192	02/27/2028	02/27/2023 / Iwona	02/27/2023 / lwona	W3009
Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date /	Chemtech Lot #
	136742-80 / POLYSEED	282211	11/30/2024	10/30/2024 /	05/10/2023 /	



CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	04667-2.5 / Silica Gel (60-200 mesh), 2.5 KG	072154301	01/30/2029	05/07/2024 / jignesh	01/30/2024 / jignesh	W3079
Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	A12244 / Stearic acid, 98%, 100 g	U23E020	02/26/2029	02/26/2024 / Iwona	02/26/2024 / Iwona	W3082
Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	4620-32 / MANGANOUS SULFATE SOLUTION-364	2403J02	03/31/2026	04/22/2024 / Iwona	04/22/2024 / Iwona	W3103
Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date /	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 /	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 / Received By	Chemtech Lot #
Seidler Chemical	BA-9262-03 / Hexane, Ultra-Resi (cs/4x4L)	235898	02/28/2029	06/27/2024 / jignesh	06/26/2024 / jignesh	W3110



CHEMICAL RECEIPT LOG BOOK

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

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	PC19510-7 / Sodium Hydroxide Pellets 12 Kg	23B1556310	12/31/2025	07/08/2024 / Iwona	07/08/2024 / Iwona	W3113

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



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

Manufactured Date: 2020/05/05

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

Certificate of Analysis

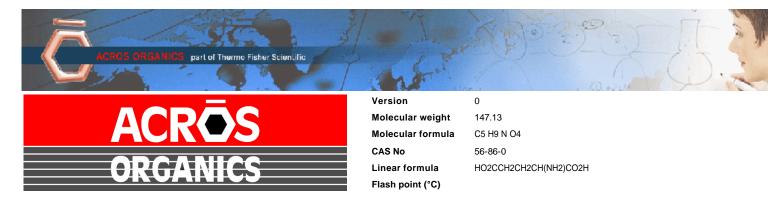
Test	Specification	Result
Assay (CH3(CH2)14CH3) (by GC)	>= 99.0 %	99.3
Infrared Spectrum	Passes Test	PT

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 ad	L(+)-Glutamic acid,99%		
Country of Origin	CHINA			
Declaration of Origin	plant			

Origin Comment	The product is made by fermentation of sugar molasses	
----------------	---	--

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





L. Van den Broek, QA Manager

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

Issued: 24 January 2020

Thermo Fisher SCIENTIFIC

W 2817 Nec. 04/02/2021

Product Specification

Product Name:

Stearic acid, 98%, Thermo Scientific Chemicals

Catalog Number:

A12244.14

CAS Number:

57-11-4

Molecular Formula:

C18H36O2

Molecular Weight:

284.48

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.

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

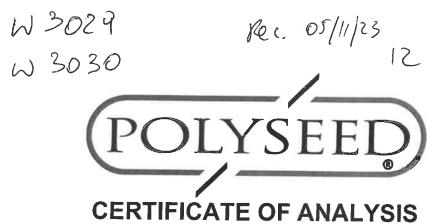
Test	Specification	Result	
Appearance (Color)	Colorless or White	Colorless	
Appearance (Form)	Liquid or Solid	Liquid	
Infrared Spectrum	Conforms to Structure	Conforms	
Refractive index at 20 ° C	1.432 - 1.436	1.435	
Purity (GC)	> 98.5 %	99.3 %	
Color Test	_ ≤ 20 APHA	< 5 APHA	

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.





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 282211 + Mfg. Date: 11/2022 + Exp. Date: 11/2024

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# J317-19 – Average Test Result: 205.3

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 assure that the Finished Product conforms to the above specification.

Signature:

Date: 11/28/2022

Quality Control Department

POLYSEED.Ref.1.19

Revised Jan 22





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. 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:

Na₂SO₄

SPECIFICATION NUMBER: 6399

RELEASE DATE:

ABR/21/2023

LOT NUMBER:

313201

TEST	SPECIFICATIONS	LOT VALUES
Assay (Na ₂ SO ₄)	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 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%	0.002 %
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

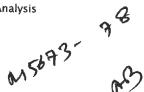
RE-02-01, Del

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 (H ₂ SO ₄)	95.0 - 98.0 %	96.1 %	_
Appearance	Passes Test	Passes Test	
ACS – Color (APHA)	≤ 10	5	
ACS – Residue after Ignition	≤ 3 ppm	< 1 ppm	
ACS - Substances Reducing Permanganate (as SO2)	≤ 2 ppm	< 2 ppm	
Ammonium (NH ₄)	≤ 1 ppm	1 ppm	
Chloride (Cl)	≤ 0.1 ppm	< 0.1 ppm	
Nitrate (NO ₃)	≤ 0.2 ppm	< 0.1 ppm	
Phosphate (PO ₄)	≤ 0.5 ppm	< 0.1 ppm	
Trace Impurities - Aluminum (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







M5943 M5944 M5945 M5946

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

Manufactured Date: 2022-06-15 Retest Date: 2027-06-14

Revision No.: 0

Certificate of Analysis

Test Specifica		Result	lt	
ACS - Assay (as HCl) (by acid-base titrn)	36.5 - 38.0 %	37.9 %		
ACS - Color (APHA)	≤ 10	5		
ACS - Residue after Ignition	≤ 3 ppm	< 1 ppm		
ACS - Specific Gravity at 60°/60°F	1.185 – 1.192	1.191		
ACS - Bromide (Br)	≤ 0.005 %	< 0.005 %		
ACS – Extractable Organic Substances	≤ 5 ppm	< 1 ppm		
ACS - Free Chlorine (as Cl ₂)	≤ 0.5 ppm	< 0.5 ppm		
Phosphate (PO ₄)	≤ 0.05 ppm	< 0.03 ppm		
Sulfate (SO4)	≤ 0.5 ppm	< 0.3 ppm		
Sulfite (SO ₃)	≤ 0.8 ppm	0.3 ppm		
Ammonium (NH4)	≤ 3 ppm	< 1 ppm		
Trace Impurities - Arsenic (As)	≤ 0.010 ppm	< 0.003 ppm		
Trace Impurities – Aluminum (Al)	≤ 10.0 ppb	1.3 ppb		
Arsenic and Antimony (as As)	≤ 5.0 ppb	< 3.0 ppb		
Frace Impurities – Barium (Ba)	≤ 1.0 ppb	0.2 ppb		
Frace Impurities - Beryllium (Be)	≤ 1.0 ppb	< 0.2 ppb		
race Impurities – Bismuth (Bi)	≤ 10.0 ppb	< 1.0 ppb		
race Impurities – Boron (B)	≤ 20.0 ppb	< 5.0 ppb		
race Impurities – Cadmium (Cd)	≤ 1.0 ppb	< 0.3 ppb		
race Impurities – Calcium (Ca)	≤ 50.0 ppb	163.0 ppb		
race Impurities – Chromium (Cr)	≤ 1.0 ppb	0.7 ppb		
race Impurities – Cobalt (Co)	≤ 1.0 ppb	< 0.3 ppb		
race Impurities - Copper (Cu)	≤ 1.0 ppb	< 0.1 ppb		
race Impurities – Gallium (Ga)	≤ 1.0 ppb	< 0.2 ppb		
race Impurities – Germanium (Ge)	≤ 3.0 ppb	< 2.0 ppb		
race Impurities – Gold (Au)	≤ 4.0 ppb	0.6 ppb		
eavy Metals (as Pb)	≤ 100 ppb	< 50 ppb		
ace Impurities - Iron (Fe)	≤ 15 ppb	6 ppb		

>>> Continued on page 2 >>>





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

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

Jamie Ethier
Vice President Global Quality



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

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 (Å, 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 %

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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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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)	0.02499-0.02501 N at 20°C	0.02501 N at 20°C	136

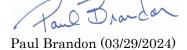
Specification	Reference	
Standard Sodium Thiosulfate Solution, 0.0250 N	APHA (4500-S2- F)	
Standard Sodium Thiosulfate Titrant	APHA (4500-O D)	
Standard Sodium Thiosulfate Titrant	APHA (4500-O E)	
Standard Sodium Thiosulfate Titrant	APHA (4500-O F)	
Standard Sodium Thiosulfate Titrant, 0.025 N	APHA (4500-Cl 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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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

Quality System has been 5

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 - 0120633

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	H303	Quality Test / Release Date	02/23/2024
Lot Number	235898		
Description	HEXANES - OPTIMA		
Country of Origin	United States	Suggested Retest Date	Feb/2029
Chemical Origin	Organic - non animal		
BSE/TSE Comment	No animal products are used a processing aids, or any other n	es starting raw material ingredients, or used naterial that might migrate to the finished pr	in processing, including lubricants, roduct.

N/A			
Result Name	Units	Specifications	Test Value
APPEARANCE		REPORT	Clear, colorless liquid
ASSAY (N-HEXANE)	%	>= 60	73
ASSAY (SUM C6 HYDROCARBONS)	%	>= 99.9	>99.9
COLOR	APHA	<= 5	<5
DENSITY AT 25 DEGREES C	GM/ML	Inclusive Between 0.653 - 0.673	0.670
EVAPORATION RESIDUE	ppm	<= 1	0.3
FLUORESCENCE BACKGROUND	ppb	<= 1	<1
IDENTIFICATION	PASS/FAIL	= PASS TEST	PASS TEST
OPTICAL ABS AT 195 NM	ABS. UNITS	<= 1	0.64
OPTICAL ABS AT 210 NM	ABS. UNITS	<= 0.25	0.16
OPTICAL ABS AT 220 NM	ABS. UNITS	<= 0.07	0.06
OPTICAL ABS AT 254 NM	ABS. UNITS	<= 0.005	0.002
PESTICIDE RESIDUE ANALYSIS	NG/L	<= 10	<10
REFRACTIVE INDEX @ 25 DEG C		Inclusive Between 1.375 - 1.385	1.380
SUITABILITY FOR GC/MS		= PASS TEST	PASS TEST
SULFUR COMPOUNDS	%	<= 0.005	<0.005
THIOPHENE	PASS/FAIL	= PASS TEST	PASS TEST
VATER (H2O)	%	<= 0.01	<0.01
WATER-SOLUBLE TITRABLE ACID	MEQ/G	<= 0.0003	0.0001

Harout Sahagian - Quality Control Manager - Fair Lawn

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

^{*}Based on suggested storage condition.



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.



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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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)	

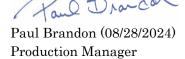
Specification	Reference
Starch Solution	APHA (4500-S2- F)
Starch Indicator Solution	APHA (4500-Cl B)
Starch Indicator	APHA (4500-SO32- B)
Starch indicator solution	APHA (2350 B)
Starch indicator solution	APHA (2350 E)
Starch Solution	APHA (510 B)
Starch Solution	APHA (5530 C)
Starch Indicator	APHA (4500-C1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



SHIPPING DOCUMENTS



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QUOTE NO.

COC Number 2042243

CLIENT INFORMATION			CLIENT PROJECT INFORMATION								CLIENT BILLING INFORMATION						5 K-10			
COMPANY: AFRIMATIK UNITUIMS			PROJECT NAME: MONTHLY								BILL TO:					PO#:				
ADDRESS: 740 Frelinghuy Sen Ave.			PROJECT NO.: LOCATION:							ADDRESS:										
CITY NEW	CITY NEWARK STATE: NJ ZIP: 07114			PROJECT MANAGER:							CITY				STATE:			ZIP:		
ATTENTION:	TENTION: Jarrol Mills			e-mail:								ATTE	NTION:		PHONE:					
	NE.973824-1101 FAX:			PHONE: FAX:							ANA					ALYSIS		THE REST		
DATA TURNAROUND INFORMATION			H-I	DATA DELIVERABLE INFORMATION										البركب						
FAX (RUSH) DAYS* HARDCOPY (DATA PACKAGE): DAYS* EDD: DAYS* *TO BE APPROVED BY CHEMTECH STANDARD HARDCOPY TURNAROUND TIME IS 10 BUSINESS DAYS			Level 1 (Results Only)																	
СНЕМТЕСН					SAM			/IPLE	E				PRES	SERVA	TIVES		100 (MMENTS
SAMPLE SAMPLE IDENTIFICATION			SAMPLE MATRIX	COMP	GRAB TO	DATE	TIME	# OF BOTTLES	1	E 2	3	4	5	6	7	8	9	A-HCI B-HN03 C-H2SO4	fy Preservatives D-NaOH E-ICE F-OTHER	
1.	Grab			W		_	11-20-14	0818	1	V								3	0-112004	1-Office
2.	Grab			W	V			0822	a		V	1/								
3.																				
4.																				
5.																				
6.																				
7.																				
8.																				
9.																				
10.																				
1. Jose Ld. REVINQUISHED BY	SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY ELINQUISHED BY SAMPLER: DATE/TIME: DATE/TIME																			
Dyright © 2023	11-20-24 3.			CH COPY FO	CLIENT: ☐ Hand Delivered ☐ Other									t Complete						

PINK - SAMPLER COPY



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