

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: Q1431

Client: Aramark Uniforms

Contact: Jose Liceaga

OrderDate: 2/26/2025 11:42:00 AM

Project: Monthly 2025

Location: H11

LabID	ClientID	Matrix	Test	Method Sample Dat	e Prep Date	Anal Date	Received
Q1431-01	GRAB	WATER		02/26/25			02/26/25
				09:20			
			TPH	1664A		02/28/25	
						09:00	
Q1431-02	COMP	WATER		02/26/25			02/26/25
				09:23			
			BOD5	SM5210 B		02/26/25	
						17:20	
			TSS	SM2540 D		02/28/25	
						11:00	



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: 02/26/25 09:20 Project: Date Received: Monthly 2025 02/26/25 Client Sample ID: GRAB SDG No.: Q1431 Lab Sample ID: Q1431-01 Matrix: WATER % Solid: 0

Parameter	Conc. Qua.	DF MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
TPH	40.6	1 0.40	5.00	mg/L		02/28/25 09:00	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: 02/26/25 09:23 Project: Monthly 2025 Date Received: 02/26/25 Client Sample ID: COMP SDG No.: Q1431 Lab Sample ID: Q1431-02 Matrix: WATER % Solid: 0

Parameter	Conc. Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
BOD5	614	1	0.17	2.00	mg/L		02/26/25 17:20	SM 5210 B-16
TSS	229	1	1.00	4.00	mg/L		02/28/25 11:00	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



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

Fax: 908 789 8922

Initial and Continuing Calibration Verification

Client:	Aramark Uniforms	SDG No.: Q1431									
Project:					RunNo.:						
Analyte		Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date				
Sample ID:											



Recovery

Window (%R)

Date



Analyte

Initial and Continuing Calibration Verification

Client:	Aramark Uniforms		SDG No.: Q1431	
Project:			RunNo.:	
		%	Acceptance	Analysis

True Value

Units

Result



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Initial and Continuing Calibration Blank Summary

ı	Client: Project:	Aramark Uniforms SDG No.: Q1431 RunNo.:								
An	alyte		Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date	
Sa	imple ID:									



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Initial and Continuing Calibration Blank Summary

Client:	Aramark Uniforms	SDG No.:	Q1431

Project: RunNo.:

			Acceptance	Conc	MDI		Analysis
Analyte	Units	Result	Limits	Qual	MDL	RDL	Date





Preparation Blank Summary

Client: Aramark Uniforms SDG No.: Q1431

Project: Monthly 2025

Analyte	Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID: BOD5	LB134816BL mg/L	< 0.2000	0.2000	U	0.17	2.0	02/26/2025
Sample ID:	LB134845BL mg/L	< 2.5000	2.5000	Ū	0.4	5.0	02/28/2025
Sample ID:	LB134851BL mg/L	< 2.0000	2.0000	Ū	1	4	02/28/2025



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Matrix Spike Summary

Client: Aramark Uniforms SDG No.: Q1431

Project: Sample ID:

Client ID: Percent Solids for Spike Sample:

		Acceptance	Spiked	Conc.	Sample	Conc.	Spike	Dilution	%		Analysis
Analyte	Units	Limit %R	Result	Oualifier	Result	Oualifier	Added	Factor	Rec	Oual	Date



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Duplicate Sample Summary

Client: Aramark Uniforms SDG No.: Q1431

Project: Monthly 2025 Sample ID: LB134845BS

Client ID: LB134845BSD 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		02/28/2025	



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Fax: 908 789 8922

Duplicate Sample Summary

Client: Aramark Uniforms SDG No.: Q1431

Project: Monthly 2025 Sample ID: Q1429-01

Client ID: OUTFALL-DSN-001DUP 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	198		204		1	2.84		02/26/2025



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Fax: 908 789 8922

Duplicate Sample Summary

Client: Aramark Uniforms SDG No.: Q1431

Project: Monthly 2025 Sample ID: Q1431-02

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
TSS	mg/L	+/-5	229		230		1	0.22		02/28/2025





Laboratory Control Sample Summary

Client: Aramark Uniforms SDG No.: Q1431

Analyte		Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID	LB134816BS								
BOD5		mg/L	198	178		90	1	84.6-115.4	02/26/2025





Laboratory Control Sample Summary

Client: Aramark Uniforms SDG No.: Q1431

Analyte		Units	True Value		Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID	LB134845BS								_
TPH		mg/L	20.0	16.8		84	1	78-114	02/28/2025





Laboratory Control Sample Summary

Client: Aramark Uniforms SDG No.: Q1431

Analyte		Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID	LB134845BSD								_
TPH		mg/L	20.0	17.0		85	1	78-114	02/28/2025





Laboratory Control Sample Summary

Client: Aramark Uniforms SDG No.: Q1431

Analyte		Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID	LB134851BS								_
TSS		mg/L	550	533		97	1	90-110	02/28/2025



RAW DATA

Alliance

QC BATCH ID: LB134816

Sulfuric acid, 1N: WP110386

Chlorine Strips: W3155

pH Strips: W3140

BOD Water: WP112062

Starch: W2977

POLYSEED: WP112064

GGA: WP112063

BOD5 LOG

ANALYST: rubir nst ld:DO METER

Reviewed By:Iwona

SUPERVISOR: Iwona

Analysis Date: 02/26/2025

---- ti2102

MANGANOUS SULFATE SOLUTION: W3103

Alkaline Iodide Azide: W3109

Sodium Thiosulfate, 0.025N: W3105

NaOH, 1N: WP111323

IncubatorID: INCUBATOR #3

GuageID: 0511064

Zero DO: WP111875

Lab SampleID	Client ID	Bottle No.	VOL. ML	Initial Reading(ML)	Final Reading(ML)	Difference	Average
WINKLER 1	WINKLER 1	1	300	0.0	9.5	9.5	9.5
WINKLER 2	WINKLER 2	2	300	9.6	19.1	9.5	9.5

Barometric Pressure1: 760 mmHg DO Meter BOD fluid reading for winkler comparison: 9.53

After Incubation

Meter Calibration2: 8.91 Zero DO Reading2: 0.10 mg/L (<=0.2 Criteria)

Barometric Pressure2: 771 mmHg



QC BATCH ID: LB134816

INCUBATOR TEMP IN(C): 20.0

TIME IN: 17:20 TIME OUT: 13:40

DATE IN: 02/26/2025 **DATE OUT:** 03/03/2025

INCUBATOR TEMP OUT (C): 19.9

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
LB134816BL	1	No	6.59	N/A	20.80	300	9.53	9.51	0.02	0.02	0.02	
POLYSEED	1					10	9.50	6.20	3.3	0.66	0.66	
POLYSEED	2					15	9.48	4.32	5.16	0.69		
POLYSEED	3					20	9.42	2.99	6.43	0.64		
GGA	1					6	9.43	5.34	4.09	171.5	177.5	
GGA	2					6	9.42	5.17	4.25	179.5		
GGA	3					6	9.42	5.13	4.29	181.5		
Q1429-01	1	No	6.70	N/A	20.20	1	9.41	8.13	-	0	198.15	
Q1429-01	2					2	9.40	7.93	-	0		
Q1429-01	3					5	9.36	4.64	4.72	243.6		
Q1429-01	4					10	9.27	3.52	5.75	152.7		
Q1429-01DUP	1	No	6.70	N/A	20.20	1	9.41	8.21	-	0	203.85	
Q1429-01DUP	2					2	9.39	7.82	-	0		
Q1429-01DUP	3					5	9.36	4.50	4.86	252		
Q1429-01DUP	4					10	9.28	3.43	5.85	155.7		
Q1429-02	1	No	6.95	N/A	20.30	1	9.51	8.39	-	0	83.4	
Q1429-02	2					2	9.48	7.93	-	0		
Q1429-02	3					5	9.34	6.93	2.41	105		
Q1429-02	4					10	9.30	6.58	2.72	61.8		
Q1431-02	1	No	6.65	N/A	20.70	0.5	9.44	7.47	-	0	613.5	
Q1431-02	2					1	9.28	6.10	3.18	756		
Q1431-02	3					2	9.23	4.70	4.53	580.5		
Q1431-02	4					3	9.06	3.36	5.7	504		
Q1435-01	1	No	7.41	N/A	20.00	5	9.50	8.95	-	0	6.96	
Q1435-01	2					20	9.48	8.56	-	0		
Q1435-01	3					50	9.46	7.25	2.21	9.3		
Q1435-01	4					150	9.45	6.48	2.97	4.62		
Q1439-01	1	No	7.25	N/A	20.90	5	9.51	8.90	-	0		
Q1439-01	2					20	9.50	8.45	-	0		
Q1439-01	3					50	9.48	8.27	-	0		
Q1439-01	4					150	9.47	7.72	-	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:3/3/2025 5:06:01 PM Inst Id :DO METER LB :LB134816

RM CUG

WORKLIST(Hardcopy Internal Chain)

WorkList ID: 187883

WorkList Name: bod5-2-26

Department: Wet-Chemistry

LD134816

	The state of the s			Department :	Wet-Chemistry	Date	Date: 02-26-2025 08:22:32	5 08:22:32
Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage	Collect Date Method	Method
01429-01								
2000	COLFALL-DSN-001	Water	BODS	0 -1 - 1 - 0				
Q1429-02 K	See Mad TivaTilo			Cool 4 deg C	TRIS02	011	02/25/2025 SME310 B	SMED40 D
	COLLARIT-DSN-002	Water	BOD5	0 - 1 - 0			201020	OWING TO B
Q1439-01 fm	BSA_MOD			Cool 4 deg C	TRIS02	D11	02/25/2025 SM5210 B	SM5210 B
	COMPOSITE OF THE PROPERTY OF T	Water	BOD5	0 - 1 1000				0.02.10.0
				Cool 4 deg C	PSEG04	H31	02/26/2025 SM5210 B	SM5210 B
								00170100

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Date/Time 02/26/2015

Raw Sample Relinquished by: Raw Sample Received by:

Date/Time 02/26/2025 Raw Sample Received by:

Raw Sample Relinquished by:

Reviewed By:Iwona On:3/3/2025 5:06:01 PM Inst Id :DO METER LB :LB134816 でて このこ

91848197

WORKLIST(Hardcopy Internal Chain)

	Date: 02-26-2025 15:09:28	Collect Date Method		02/26/2025 SM5210 B		02/26/2025 SM5240 B
	P	Raw Sample Storage		H11	201	171
	Wet-Chemistry	Customer		ARAM01	PSEG03	-
1	Department: Wet-Chemistry	Preservative		Cool 4 deg C	Cool 4 deg C	
WorkList ID · 187900		Matrix Test	Water BODE		Water BOD5	
BOD5-2-26-	The second second	Customer Sample	COMP	286107		
WorkList Name:	S C C C C C C C C C C C C C C C C C C C		Q1431-02 4 COMP	Q1435-01 H	-	

02/26/2025 SM5210 B

Date/Time 02 (26/207 Raw Sample Received by:

Raw Sample Relinquished by:

Page 1 of 1

02/26/2025 1600

Date/Time

Raw Sample Relinquished by: Raw Sample Received by:



Extraction and Analytical Summary Report

Analysis Method: 1664A

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

Run Number: LB134845

Analysis Date: 02/28/2025

BalanceID: WC SC-6

OvenID: EXT OVEN-3

ANALYST: jignesh

REVIEWED BY: Iwona

Extraction Date: 02/28/2025

Extration IN Time: 08:00

Extration OUT Time: 08:30

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

Dish #	Lab ID	Client ID	Matrix	pН	Sample Vol (ml)	Final Volume (ml)	Empty Dish Weight (g)	Final Empty Dish Weight(g)	Silica Gel Weight(g)	Weight After Drying(g)	Final Weight After Drying(g)	Change Weight (g)	Result in ppm
1	LB134845BL	LB134845BL	WATER	1.3	1000	100	2.8563	2.8563	3.01	2.8564	2.8564	0.0001	0.1
2	LB134845BS	LB134845BS	WATER	1.3	1000	100	3.1984	3.1984	3.02	3.2152	3.2152	0.0168	16.8
3	LB134845BSD	LB134845BSD	WATER	1.3	1000	100	3.0252	3.0252	3.03	3.0422	3.0422	0.0170	17
4	Q1417-01	LRSA-MOD-1	WATER	1.3	1000	100	3.0314	3.0314	3.03	3.0315	3.0315	0.0001	0.1
5	Q1431-01	GRAB	WATER	1.6	1000	100	3.0740	3.0740	3.04	3.1146	3.1146	0.0406	40.6
6	Q1435-01	286107	WATER	1.3	1000	100	3.0092	3.0092	3.04	3.0100	3.0100	0.0008	0.8



QC Batch# LB134845

Test: TPH

Analysis Date: 02/28/2025

Chemicals Used:

Chemical Name	Chemical Lot #					
HEXANE	W3177					
pH Paper 0-14	M6069					
Sodium Sulfate	EP2590					
1:1 HCL	WP110826					
Silica Gel	W3079					
Sand	NA					

Standards Used:

Standard Name	Amount Used	Standard Lot #
LCSW	5.00 ML	WP100827
LCSWD	5.00 ML	WP100828
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: 10:26

1.0000 gram Balance: 1.0004 (0.9950-1.0050) In Time1: 09:00

Out OVEN TEMP1: 70 °C 08:11 Bal Check Time: Dessicator Time Out1: 11:10

> 10:25 Out Time1:

After Analysis

In OVEN TEMP2: 71 °C Dessicator Time In2: 12:48 0.0020 gram Balance: 0.0021 (0.0018-0.0022)

12:10 In Time2: 1.0000 gram Balance: 1.0005 (0.9950-1.0050)

Out OVEN TEMP2: 71 °C Dessicator Time Out2: 13:15 13:20 Bal Check Time:

> 12:47 Out Time2:

Reviewed By:Iwona On:2/28/2025 1:16:12 PM Inst Id :WC SC-3 LB:LB134845

WORKLIST(Hardcopy Internal Chain)

.

WorkList ID: 187949

tph q1459

WorkList Name:

Department: Wet-Chemistry

hemistry

Date: 02-28-2025 07:40:41

Raw Sample

Storage Location

Customer

Preservative

Test

Matrix

Customer Sample

Sample

Collect Date Method

02/24/2025 1664A 02/26/2025 1664A 02/26/2025 1664A

PSEG04

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

표 표 표

Water Water

LRSA-MOD-1

Q1417-01

286107

GRAB

Q1431-01 Q1435-01

ARAM01 PSEG03

Sh846 8

Date Time ウルス ピルス RAS Raw Sample Received by: Raw Sample Relinquished by:

Page 1 of 1

DAILY/1/5 OF1.50

Raw Sample Relinquished by:

Raw Sample Received by:

Date/Time



TOTAL SUSPENDED SOLIDS - SM2540D

SUPERVISOR: Iwona

ANALYST: jignesh

Date: 02/27/2025

Run Number: LB134851

103 °C 02/27/2025 14:00 TEMP1 OUT: 104 °c 02/27/2025 15:00 TEMP1 IN: BalanceID: WC SC-6 104 °C 02/27/2025 15:30 TEMP2 OUT: 103 °C 02/27/2025 16:30 TEMP2 IN: OvenID: WC OVEN-1 104 °C 02/28/2025 11:00 TEMP3 OUT: 103 °C 02/28/2025 12:30 TEMP3 IN: **FilterID:** 17416528 104 °C 02/28/2025 13:00 TEMP4 OUT: 103 °c 02/28/2025 14:30 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	LB134851BL	LB134851BL	1.4532	1.4532	100	1.4532	1.4532	1.4532	0.0000	0
2	LB134851BS	LB134851BS	1.4305	1.4305	100	1.4838	1.4838	1.4838	0.0533	533
3	Q1429-01	OUTFALL-DSN-001	1.4948	1.4948	1000	1.5008	1.5008	1.5008	0.0060	6
4	Q1429-02	OUTFALL-DSN-002	1.4782	1.4782	1000	1.6476	1.6476	1.6476	0.1694	169.4
5	Q1431-02	COMP	1.4841	1.4841	400	1.5757	1.5757	1.5757	0.0916	229
6	Q1431-02DUP	COMPDUP	1.4569	1.4569	400	1.5487	1.5487	1.5487	0.0918	229.5
7	Q1435-01	286107	1.4828	1.4828	2000	1.5015	1.5015	1.5015	0.0187	9.3
8	Q1439-01	LRSA-MOD	1.4890	1.4890	2000	1.4928	1.4928	1.4928	0.0038	1.9
9	Q1456-02	EFF-WASTE WATER	1.4897	1.4897	500	1.5078	1.5078	1.5078	0.0181	36.2
10	Q1466-01	EFFLUENT	1.4901	1.4901	50	1.5151	1.5151	1.5151	0.0250	500
11	Q1466-04	AERATION	1.4964	1.4964	30	1.5532	1.5532	1.5532	0.0568	1893.3

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



Instrument ID: DO METER

Daily Analysis Runlog For Sequence/QCBatch ID # LB134816

Review By	rub	ina	Review On	3/3/2025 5:04:52 PM
Supervise By	lwc	ona	Supervise On	3/3/2025 5:06:01 PM
SubDirectory	LB	134816	Test	BOD5
STD. NAME	TD. NAME STD REF.#			
ICAL Standard	dard N/A			
ICV Standard		N/A		
CCV Standard		N/A		
ICSA Standard		N/A		
CRI Standard	standard N/A			
LCS Standard	LCS Standard N/A			
Chk Standard				64,WP112063,WP111323

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	LB134816BL	LB134816BL	MB	02/26/25 17:20		rubina	ок
2	LB134816BS	LB134816BS	LCS	02/26/25 17:20		rubina	ок
3	Q1429-01	OUTFALL-DSN-001	SAM	02/26/25 17:20		rubina	ОК
4	Q1429-01DUP	OUTFALL-DSN-001D	DUP	02/26/25 17:20		rubina	ОК
5	Q1429-02	OUTFALL-DSN-002	SAM	02/26/25 17:20		rubina	ОК
6	Q1431-02	COMP	SAM	02/26/25 17:20	Intermediate dilution	rubina	ОК
7	Q1435-01	286107	SAM	02/26/25 17:20		rubina	ОК
8	Q1439-01	LRSA-MOD	SAM	02/26/25 17:20		rubina	ок



Instrument ID: WC SC-3

Daily Analysis Runlog For Sequence/QCBatch ID # LB134845

Review By	jign	nesh	Review On	2/28/2025 9:52:58 AM
Supervise By	lwo	ona	Supervise On	2/28/2025 1:16:12 PM
SubDirectory	LB	134845	Test	TPH
STD. NAME STD REF.#				
ICAL Standard	ICAL Standard N/A			
ICV Standard		N/A		
CCV Standard		N/A		
ICSA Standard		N/A		
CRI Standard		N/A		
LCS Standard N/A				
Chk Standard	Chk Standard W3177,M6069,EP2590,WP110826,W3079,NA,WP100827,WI			100828,NA

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	LB134845BL	LB134845BL	МВ	02/28/25 09:00		jignesh	ок
2	LB134845BS	LB134845BS	LCS	02/28/25 09:00		jignesh	ок
3	LB134845BSD	LB134845BSD	LCSD	02/28/25 09:00		jignesh	ок
4	Q1417-01	LRSA-MOD-1	SAM	02/28/25 09:00		jignesh	ок
5	Q1431-01	GRAB	SAM	02/28/25 09:00		jignesh	ОК
6	Q1435-01	286107	SAM	02/28/25 09:00		jignesh	ок



Instrument ID: WC SC-3

Daily Analysis Runlog For Sequence/QCBatch ID # LB134851

Review By	jign	esh	Review On	2/28/2025 2:10:44 PM
Supervise By	Supervise By Iwona		Supervise On	2/28/2025 2:13:20 PM
SubDirectory	LB	134851	Test	TSS
STD. NAME	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	LB134851BL	LB134851BL	MB	02/28/25 11:00		jignesh	ОК
2	LB134851BS	LB134851BS	LCS	02/28/25 11:00	55mg W2576 +100ML W3112	jignesh	ОК
3	Q1429-01	OUTFALL-DSN-001	SAM	02/28/25 11:00		jignesh	ОК
4	Q1429-02	OUTFALL-DSN-002	SAM	02/28/25 11:00		jignesh	ОК
5	Q1431-02	COMP	SAM	02/28/25 11:00		jignesh	ОК
6	Q1431-02DUP	COMPDUP	DUP	02/28/25 11:00		jignesh	ОК
7	Q1435-01	286107	SAM	02/28/25 11:00		jignesh	ОК
8	Q1439-01	LRSA-MOD	SAM	02/28/25 11:00		jignesh	ОК
9	Q1456-02	EFF-WASTE WATER	SAM	02/28/25 11:00		jignesh	ОК
10	Q1466-01	EFFLUENT	SAM	02/28/25 11:00		jignesh	ОК
11	Q1466-04	AERATION	SAM	02/28/25 11:00		jignesh	ОК



Q1431

Order ID:

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

8900, Fax: 908 789 8922

Prep Standard - Chemical Standard Summary

Test:	BOD5,TPH,TSS
Prepbatch ID :	
Sequence ID/Qc Bato	th ID: LB134816,LB134845,LB134851,
Standard ID : EP2590,WP100827,V	VP100828,WP110386,WP110826,WP111323,WP112062,WP112063,WP112064,WP99896,
Chemical ID :	
	,M6121,W2606,W2653,W2654,W2783,W2845,W2898,W2977,W2979,W3059,W3079,W3103,W31 .113,W3144,W3177,



Extractions STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	<u>ScaleID</u>	<u>PipetteID</u>	Supervised By Riteshkumar Patel	
3923	Baked Sodium Sulfate	EP2590	02/26/2025	07/01/2025	RUPESHKUMA	Extraction_SC	None		
					R SHAH	ALE_2		02/26/2025	
EDOM	(EX-SU-2)								

FROIVI	4000.00000gram or £333 i	- I mai Quantity. 4000.000	grain

Recipe ID	NAME	<u>NO.</u>	Prep Date	Expiration Date	Prepared By	<u>ScaleID</u>	<u>PipetteID</u>	Supervised By Iwona Zarych
114	hexavalent chromium color reagent	WP100827	02/02/2023	02/09/2023	Rubina Mughal	WETCHEM_S CALE_5 (WC	None	02/02/2023

FROM 0.25000gram of W2979 + 50.00000ml of W2783 = Final Quantity: 50.000 ml



Alliance 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 Sohil Jodhani	
3456	Cyanide Intermediate Working Std, 5PPM	WP100828	02/02/2023	02/03/2023	lwona Zarych	None	WETCHEM_F IPETTE_3		
FROM	(WC)								

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

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



Wet Chemistry STANDARD PREPARATION LOG

Recipe ID	NAME	<u>NO.</u>	Prep Date	Expiration Date	Prepared By	<u>ScaleID</u>	<u>PipetteID</u>	Supervised By Iwona Zarych
229	1:1 HCL	WP110826	11/22/2024	05/13/2025	Jignesh Parikh	None	None	
								11/22/2024

FROM	500.00000ml of M6121 + 500.00000ml of W3112 = Final Quantity: 1.000 L
-------------	---

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
1571	Sodium hydroxide, 1N	WP111323	01/09/2025	07/09/2025	Rubina Mughal	WETCHEM_S	None	•
						CALE_8 (WC		01/09/2025

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



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Wet Chemistry STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	<u>ScaleID</u>	<u>PipetteID</u>	Supervised By Iwona Zarych
127	BOD Dilution fluid	WP112062	02/26/2025	02/27/2025	Rubina Mughal	None	None	,
								02/27/2025

FROM	18.00000L of W3112 + 3.00000PILLOW of W3144 = Final Quantity: 18.000 L
-------------	--

Recipe ID	NAME.	<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	WP112063	02/26/2025	02/27/2025	Rubina Mughal	WETCHEM_S CALE 6 (M	None	02/27/2025
		<u> </u>				SC-4)		02,2172020

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



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Wet Chemistry STANDARD PREPARATION LOG

Recipe ID	<u>NAME</u>	NO.	Prep Date	Expiration Date	Prepared By	<u>ScaleID</u>	<u>PipetteID</u>	Supervised By Iwona Zarych
128	polyseed seed control	WP112064	02/26/2025	02/27/2025	Rubina Mughal	None	None	,
								02/27/2025

Recipe ID	NAME_	NO.	Prep Date	Expiration Date	<u>Prepared</u> <u>By</u>	<u>ScaleID</u>	<u>PipetteID</u>	Supervised By Iwona Zarych
11	Sodium hydroxide absorbing solution 0.25 N	WP99896	11/15/2022	05/15/2023	Jignesh Parikh	WETCHEM_S CALE 4 (WC	None	11/15/2022
	Solution 0.25 N					SC-4)		11/15

FROM 21.00000L of W2606 + 210.00000gram of W2845 = Final Quantity: 21.000 L



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	07/01/2025	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-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 / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	140440 / TEST PAPERS,PH,0-2.5,.2SENSI, 100PK	80A0441	02/29/2028	09/03/2024 / jignesh	08/19/2024 / Jaswal	M6069
Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9530-33 / Hydrochloric Acid, Instra-Analyzed (cs/6x2.5L)	0000275677	05/13/2025	11/13/2024 / Eman	10/13/2024 / Eman	M6121
Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	DIW / DI Water	Daily Lab-Certified	10/24/2024	10/24/2019 / apatel	10/24/2019 / apatel	W2606
Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
	AC156212500 /	A0405990	01/24/2030	01/24/2020 /	01/24/2020 /	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 #
Seidler Chemical	BA-9254-03 / Acetone, Ultra Resi (cs/4x4L)	0000263246	06/17/2023	12/23/2020 / ketankumar	12/23/2020 / ketankumar	W2783
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	21C2456604	01/31/2024	03/30/2022 / JIGNESH	06/24/2021 / apatel	W2845
Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date /	Chemtech Lot #
Supelco	90157 / Cyanide Standard, 1000ppm from Supelco	HC03107133	06/30/2023	01/24/2022 / apatel	01/24/2022 / apatel	W2898
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	4210G90	10/31/2024	11/15/2022 / Iwona	11/15/2022 / Iwona	W2977
Complian	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Supplier						



Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	136742-80 / POLYSEED	152305	05/30/2025	02/15/2024 / Rubina	10/18/2023 / Iwona	W3059
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.	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
	<u> </u>			1	L	
Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Supplier PCI Scientific Supply, Inc.	ItemCode / ItemName AL04100-4 / Alkaline lodide Azide, 1 L	Lot # 1405D67	-	-		
PCI Scientific	AL04100-4 / Alkaline		Date	Opened By 05/23/2024 /	Received By 05/23/2024 /	Lot #



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Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	PC19510-7 / Sodium Hydroxide Pellets 12 Kg	23B1556310	12/31/2025	07/08/2024 / lwona	07/08/2024 / 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 #
Seidler Chemical	BA-9262-03 / Hexane, Ultra-Resi (cs/4x4L)	24G1962003	08/22/2025	02/03/2025 / jignesh	01/31/2025 / jignesh	W3177



Certificate of Analysis

1.19533.0500 Cyanide standard solution traceable to SRM from NIST K₂[Zn(CN)₄] in H₂O

1000 mg/I CN Certipur®

HC03107133 **Batch**

		Batch Values			
Concentration	β (CN ⁻)	1002	mg/l		

Determination method: Argentometric titration.

The content of this solution was determined with silver nitrate standard solution (article number 1.09081) standardized against volumetric standard sodium chloride (article number 1.02406). The expanded measurement uncertainty is \pm 0.7 % (k=2 coverage factor for 95% of the expanded measurement uncertainty is \pm 0.7 % (k=2 coverage factor for 95% of the expanded measurement uncertainty is \pm 0.7 % (k=2 coverage factor for 95% of the expanded measurement uncertainty is \pm 0.7 % (k=2 coverage factor for 95% of the expanded measurement uncertainty is \pm 0.7 % (k=2 coverage factor for 95% of the expanded measurement uncertainty is \pm 0.7 % (k=2 coverage factor for 95% of the expanded measurement uncertainty is \pm 0.7 % (k=2 coverage factor for 95% of the expanded measurement uncertainty is \pm 0.7 % (k=2 coverage factor for 95% of the expanded measurement uncertainty is \pm 0.7 % (k=2 coverage factor for 95% of the expanded measurement uncertainty is \pm 0.7 % (k=2 coverage factor for 95% of the expanded measurement uncertainty is \pm 0.7 % (k=2 coverage factor for 95% of the expanded measurement uncertainty is \pm 0.7 % (k=2 coverage factor for 95% of the expanded measurement uncertainty is \pm 0.7 % (k=2 coverage factor for 95% of the expanded measurement uncertainty is \pm 0.7 % (k=2 coverage factor fac coverage probability). The certified value is traceable to primary standard NIST SRM 999c (NIST: National Institute of Standards and Technology, USA) by means of volumetric standard sodium chloride, measured in the accredited calibration laboratory of Merck KGaA, Darmstadt, Germany in accordance to DIN EN ISO/IEC 17025.

Date of release (DD.MM.YYYY) 02.07.2020 Minimum shelf life (DD.MM.YYYY) 30.06.2023

Ayfer Yildirim

Responsible laboratory manager quality control

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

Acetone
ULTRA RESI-ANALYZED
For Organic Residue Analysis



Material No.: 9254-03 Batch No.: 0000263246

Manufactured Date: 2020/06/17 Expiration Date: 2023/06/17

Revision No: 1

Certificate of Analysis

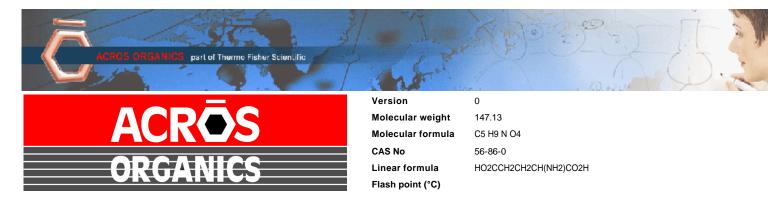
Test	Specification	Result
Assay ((CH ₃) ₂ CO) (by GC, corrected for water)	>= 99.4 %	99.7
Color (APHA)	<= 10	5
Residue after Evaporation	<= 1.0000 ppm	0.1000
Substances Reducing Permanganate	Passes Test	PT
Titrable Acid (µeq/g)	<= 0.3	0.1
Titrable Base (µeq/g)	<= 0.6	< 0.1
Water (H₂O)	<= 0.5 %	0.3
FID–Sensitive Impurities (as 2–Octanol) Single Impurity Peak (ng/mL)	<= 5	< 1
ECD Sensitive Impurities (as Heptachlor Epoxide) Single Peak (pg/mL)	<= 10	5

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

Country of Origin: US

Packaging Site: Phillipsburg 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	cid,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





CERTIFICATE OF ANALYSIS

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

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

PolySeed® • Part No. P-110 • Lot 152305 • Mfg. Date: 05/2023 • Exp. Date: 05/2025

FORMULATION:

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

VIABLE COUNT, FINAL TEST RESULT:

The product has been fully tested in accordance with Finished Product Specifications and contains a minimum viable count of 4.00 x10⁹ cfu/a.

GLUCOSE/GLUTAMIC-ACID RESULTS:

Tested results within acceptable range 198 +/- 30.5 mg/L (167.5 - 228.5 mg/L). GGA Lot# L257-09 – Average Test Result: 203.4

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: 05/15/2023

Quality Control Department

POLYSEED.Ref.1.19

Revised Jan 23





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

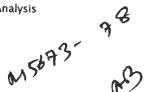
RE-02-01, Del

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





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





R->16/13/24 Met dig

M 6/21

Material No.: 9530-33 Batch No.: 0000275677 Manufactured Date: 2020/12/16 Retest Date: 2025/12/15

Revision No: 1

Certificate of Analysis

Test	Specification	Result
ACS - Assay (as HCl) (by acid-base titrn)	36.5 - 38.0 %	37.6
ACS - Color (APHA)	<= 10	5
ACS - Residue after Ignition	<= 3 ppm	1
ACS - Specific Gravity at 60°/60°F	1.185 – 1.192	1.190
ACS – Bromide (Br)	<= 0.005 %	< 0.005
ACS - Extractable Organic Substances	<= 5 ppm	1
ACS - Free Chlorine (as Cl2)	<= 0.5 ppm	< 0.5
Phosphate (PO ₄)	<= 0.05 ppm	< 0.03
Sulfate (SO ₄)	<= 0.5 ppm	< 0.3
Sulfite (SO ₃)	<= 0.8 ppm	0.3
Ammonium (NH ₄)	<= 3 ppm	< 1
Trace Impurities – Arsenic (As)	<= 0.010 ppm	< 0.003
Trace Impurities - Aluminum (Al)	<= 10.0 ppb	< 0.2
Arsenic and Antimony (as As)	<= 5 ppb	< 3
Trace Impurities – Barium (Ba)	<= 1.0 ppb	< 0.2
Trace Impurities – Beryllium (Be)	<= 1.0 ppb	< 0.2
Trace Impurities – Bismuth (Bi)	<= 10.0 ppb	< 1.0
Trace Impurities – Boron (B)	<= 20.0 ppb	< 5.0
Frace Impurities – Cadmium (Cd)	<= 1.0 ppb	< 0.3
Frace Impurities – Calcium (Ca)	<= 50.0 ppb	29.7
race Impurities – Chromium (Cr)	<= 1.0 ppb	< 0.4
race Impurities – Cobalt (Co)	<= 1.0 ppb	< 0.4
race Impurities – Copper (Cu)	<= 1.0 ppb	< 0.1
race Impurities – Gallium (Ga)	<= 1.0 ppb	< 0.2

Material No.: 9530-33 Batch No.: 0000275677

Test	Specification	Result
Trace Impurities - Germanium (Ge)	<= 3.0 ppb	< 2.0
Trace Impurities - Gold (Au)	<= 4.0 ppb	< 0.2
Heavy Metals (as Pb)	<= 100 ppb	< 50
Trace Impurities – Iron (Fe)	<= 15.0 ppb	<1
Trace Impurities – Lead (Pb)	<= 1.0 ppb	< 0.5
Trace Impurities – Lithium (Li)	<= 1.0 ppb	0.2
Trace Impurities – Magnesium (Mg)	<= 10.0 ppb	0.4
Trace Impurities – Manganese (Mn)	<= 1.0 ppb	< 0.4
Trace Impurities – Mercury (Hg)	<= 0.5 ppb	0.1
Trace Impurities – Molybdenum (Mo)	<= 10.0 ppb	< 5.0
Trace Impurities – Nickel (Ni)	<= 4.0 ppb	< 0.3
Trace Impurities – Niobium (Nb)	<= 1.0 ppb	< 0.2
Frace Impurities – Potassium (K)	<= 9.0 ppb	< 2.0
Frace Impurities - Selenium (Se), For Information Only	ppb	1.0
Trace Impurities - Silicon (Si)	<= 100.0 ppb	< 10.0
race Impurities – Silver (Ag)	<= 1.0 ppb	< 0.3
race Impurities – Sodium (Na)	<= 100.0 ppb	< 5.0
race Impurities – Strontium (Sr)	<= 1.0 ppb	< 0.2
race Impurities – Tantalum (Ta)	<= 1.0 ppb	< 0.9
race Impurities – Thallium (TI)	<= 5.0 ppb	< 2.0
race Impurities – Tin (Sn)	<= 5.0 ppb	< 0.8
race Impurities - Titanium (Ti)	<= 1.0 ppb	0.8
race Impurities – Vanadium (V)	<= 1.0 ppb	< 0.2
race Impurities – Zinc (Zn)	<= 5.0 ppb	
race Impurities – Zirconium (Zr)	<= 1.0 ppb	0.3 < 0.1

For Laboratory, Research or Manufacturing Use Product Information (not specifications): Appearance (clear, fuming liquid) Meets ACS Specifications

Country of Origin:

US

Packaging Site:

Phillipsburg Mfg Ctr & DC





RICCA CHEMICAL COMPANY®

W2977 Rec 11/15/72

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: 4210G90

Product Number: 8000

Manufacture Date: OCT 17, 2022

Expiration Date: OCT 2024

This product is Mercury-free.

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

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

Specification	Reference	
Starch Solution	APHA (4500-S2- F)	
Starch Indicator Solution	APHA (4500-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	Sîze / Package Type	Shelf Life (Unopened Container)
8000-1	4 L natural poly	24 months
8000-5	20 L Cubitainer®	24 months

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

Version: 1.3

Paul Brandon (10/17/2022)

Production Manager

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

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Version: 1.3 Lot Number: 4210G90 Product Number: 8000 Page 2 of 2

W 2979

3050 Spruce Street, Saint Louis, MO 63103, USA

Website: www.sigmaaldrich.com

Email USA: techserv@sial.com
Outside USA: eurtechserv@sial.com

lec: 12/08/22

exp. 12/08/27

Certificate of Analysis

1,5-Diphenylcarbazide - ACS reagent

Product Number:

259225

Batch Number:

MKCR6636

Brand:

SIAL

CAS Number:

140-22-7

MDL Number:

MFCD00003013

Formula:

C13H14N4O

Formula Weight:

242.28 g/mol

Quality Release Date:

02 JUN 2022

Test	Specification	Result	
Appearance (Color)	Conforms to Requirements	Pink	
Off-White to Pink, Light Purple or Tan	-		
Appearance (Form)	Powder or Chunks	Powder	
Melting Point	173.0 - 176.0 ℃	173.0 °C	
Infrared Spectrum	Conforms to Structure	Conforms	
Residue on ignition (Ash)	< 0.05 %	0.01 %	
15 minutes, 800 Degrees Celsius	_		
Solubility	Pass	Pass	
Sensitivity Test	Pass	Pass	
Meets ACS Requirements	Current ACS Specification	Conforms	

Larry Coers, Director Quality Control Milwaukee, WI US

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

Certificate of Analysis

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

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

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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

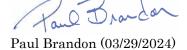
Specification	Reference	
Standard Sodium Thiosulfate Solution, 0.0250 N	APHA (4500-S2- F)	
Standard Sodium Thiosulfate Titrant	APHA (4500-O D)	
Standard Sodium Thiosulfate Titrant	APHA (4500-O E)	
Standard Sodium Thiosulfate Titrant	APHA (4500-O F)	
Standard Sodium Thiosulfate Titrant, 0.025 N	APHA (4500-Cl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

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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

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

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





Johns Certificate of Analysis

Material No.: 9262-03 Batch No.: 24G1962003

Manufactured Date: 2024-05-23 Expiration Date: 2025-08-22

Revision No.: 0

Test	Specification	Result
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	≤ 5	3
ECD Sensitive Impurities (as Heptachlor Epoxide) Single Peak (pg/mL)	≤ 10	1
ECD-Sensitive Impurities (as Ethylene Dibromide) - Single Impurity Peak (ng/mL)	≤ 5	1
Assay (Total Saturated Colsomers) (by GC, corrected for water)	≥ 99.5 %	99.7 %
Assay (as n-Hexane) (by GC, corrected for water)	≥ 95 %	98 %
Color (APHA)	≤ 10	5
Residue after Evaporation	≤ 1.0 ppm	0.1 ppm
Substances Darkened by H2SO4	Passes Test	Passes Test
Water (by KF, coulometric)	≤ 0.05 %	< 0.01 %

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

Country of Origin: USA

Packaging Site: Phillipsburg Mfg Ctr & DC

Jamie Croak Director Quality Operations, Bioscience Production



SHIPPING DOCUMENTS



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

ALLIANCE PROJECT NO. QUOTE NO.

COC Number 2046194

	CLIENT INFORMATION			CLIENT P	ROJECT IN	FORM	ATION	18.	211	Fid			CLIEN	IT BILLI	NG INFO	ORMATION	
COMPANY:	AGAMAN UNIFORMS	PROJECT	T.NAME: MON-HIY			BILL TO:				PO#:							
ADDRESS:	740 Frelinghuysen AVE	PROJECT	NO.:		LOCA	TION:				ADDR	ESS:						
CITY NO	WOLK STATE: NJ ZIPO7114	PROJECT	MANAG	BER:						CITY					STAT	E:	:ZIP:
ATTENTION:	Jarrod mills	e-mail:								ATTEN	ITION:				PHO	NE:	
	3-824-1101 FAX:	PHONE:			FA	X::								ANA	ALYSIS		
	DATA TURNAROUND INFORMATION		DATA	DELIVE	RABLE IN	FORM	ATION									, ,	
EDD: *TO BE APPRO	DAYS* ATA PACKAGE):DAYS* DAYS* VED BY CHEMTECH RDCOPY TURNAROUND TIME IS 10 BUSINESS	Level 1 (Level 2 (Level 3 (+ Raw [EDD FO	Results Results Data)	+ QC) 🗆 + QC 🚨	NJ Reduced	d 🗆 U	S EPA CL	.Р	\$\frac{1}{2}\gamma_3	25 25 4	5 SERVA	6	/	/8	9,		
ALLIANCE			AMPLE		/PLE	LES				PRES	ERVA	IIVES					MMENTS fy Preservatives
SAMPLE	PROJECT SAMPLE IDENTIFICATION	OAMIF LL	GRAB GRAB	DATE	TIME	# OF BOTTLES	1	E /2	3	4	5	6	7 -	8	9	A-HCI B-HN03 C-H2SO4	D-NaOH E-ICE F-OTHER
1.	Grab	W	V	2-26-2	50920	1	V				~						
2.	Comp	WI	1		6923			V	V								
3.																	
4.																	
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10.																	
	SAMPLE CUSTODY MUST BE DOC	UMENTED B	ELOW	EACH TI	ME SAMP	LES C	HANGE	POSS	ESSIO	N INCL	UDING	COURI	ER DE	LIVER	Υ		
RELINQUISHED BY	Y SAMPLER: DATE/TIME: RECEIPED BY:		092° 2.26°		ns of bottles (OOLER TE	MP	3	,40	°C
4	2-26-25 3.			Page.	of		CLIENT	: 0	Hand D	elivered	Q 01	ther				Shipmen YES	t Complete NO



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