

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: Q2417

Client: Aramark Uniforms

Contact: Jarrod Mills

OrderDate: 6/25/2025 1:28:00 PM

Project: Monthly 2025

Location: D51

LabID	ClientID	Matrix	Test	Method Sample Date	Prep Date	Anal Date	Received
Q2417-01	GRAB	WATER		06/25/25			06/25/25
				13:20			
			TPH	1664A		06/26/25	
						09:45	
Q2417-02	СОМР	WATER		06/25/25			06/25/25
				13:23			
			BOD5	SM5210 B		06/26/25	
						16:40	
			TSS	SM2540 D		06/26/25	
						09:30	



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: 06/25/25 13:20 Project: Date Received: Monthly 2025 06/25/25 Client Sample ID: GRAB SDG No.: Q2417 Lab Sample ID: Q2417-01 Matrix: WATER % Solid: 0

Parameter	Conc. Qua.	DF MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
TPH	65.8	1 0.29	5.00	mg/L		06/26/25 09:45	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



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Fax: 908 789 8922

Report of Analysis

Client: Aramark Uniforms Date Collected: 06/25/25 13:23 Project: Monthly 2025 Date Received: 06/25/25 Client Sample ID: COMP SDG No.: Q2417 Lab Sample ID: Q2417-02 Matrix: WATER % Solid: 0

Parameter	Conc. Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
BOD5	480	1	0.20	2.00	mg/L		06/26/25 16:40	SM 5210 B-16
TSS	638	1	1.00	4.00	mg/L		06/26/25 09:30	SM 2540 D-20

Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

D = Dilution

Q = indicates LCS control criteria did not meet requirements

H = Sample Analysis Out Of Hold Time

J = Estimated Value

B = Analyte Found in Associated Method Blank

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

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

OR = Over Range

N =Spiked sample recovery not within control limits



QC RESULT SUMMARY





Preparation Blank Summary

Client: Aramark Uniforms SDG No.: Q2417

Project: Monthly 2025

Analyte	Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID:	LB136277BL mg/L	< 2.5000	2.5000	Ŭ	0.29	5.0	06/26/2025
Sample ID:	LB136278BL mg/L	1	2.0000	J	1	4	06/26/2025
Sample ID: BOD5	LB136297BL mg/L	< 0.2000	0.2000	U	0.20	2.0	06/26/2025



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Duplicate Sample Summary

Client: Aramark Uniforms SDG No.: Q2417

Project: Monthly 2025 Sample ID: LB136277BS

Client ID: LB136277BSD 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		17.2		1	1.17	•	06/26/2025	_



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Duplicate Sample Summary

Client: Aramark Uniforms SDG No.: Q2417

Project: Monthly 2025 Sample ID: Q2417-02

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	480		485		1	1.04		06/26/2025	



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Duplicate Sample Summary

Client: Aramark Uniforms SDG No.: Q2417

Project: Monthly 2025 Sample ID: Q2418-01

Client ID: VAC-TRUCK-4074DUP 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	153		159		1	3.59		06/26/2025





Client: Aramark Uniforms SDG No.: Q2417

Analyte		Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID	LB136277BS								
TPH		mg/L	20.0	17.0		85	1	78-114	06/26/2025





Client: Aramark Uniforms SDG No.: Q2417

Analyte		Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID	LB136277BSD								
TPH		mg/L	20.0	17.2		86	1	78-114	06/26/2025





Client: Aramark Uniforms SDG No.: Q2417

Analyte		Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID	LB136278BS								
TSS		mg/L	550	533		97	1	90-110	06/26/2025





Client: Aramark Uniforms SDG No.: Q2417

Analyte		Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID	LB136297BS								
BOD5		mg/L	198	179		91	1	84.6-115.4	06/26/2025



RAW DATA



Extraction and Analytical Summary Report

Analysis Method: 1664A

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

Run Number: LB136277

Analysis Date: 06/26/2025

BalanceID: WC SC-6

OvenID: EXT OVEN-3

ANALYST: jignesh

REVIEWED BY: Iwona

Extraction Date: 06/26/2025

Extration IN Time: 08:15

Extration OUT Time: 08:40

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	LB136277BL	LB136277BL	WATER	1.3	1000	100	2.8563	2.8563	3.01	2.8564	2.8564	0.0001	0.1
2	LB136277BS	LB136277BS	WATER	1.3	1000	100	2.9944	2.9944	3.02	3.0114	3.0114	0.0170	17
3	LB136277BSD	LB136277BSD	WATER	1.3	1000	100	3.0176	3.0176	3.03	3.0348	3.0348	0.0172	17.2
4	Q2417-01	GRAB	WATER	1.6	1000	100	3.1023	3.1023	3.04	3.1681	3.1681	0.0658	65.8
5	Q2418-01	VAC-TRUCK-4074	WATER	1.6	1000	100	3.0783	3.0783	24.05	3.3846	3.3846	0.3063	306.3



OC Batch# LB136277

Test: TPH

Analysis Date: 06/26/2025

Chemicals Used:

Chemical Name	Chemical Lot #
HEXANE	W3204
pH Paper 0-14	M6069
Sodium Sulfate	EP2622
1:1 HCL	WP112782
Silica Gel	W3079
Sand	NA

Standards Used:

Standard Name	Amount Used	Standard Lot #		
LCSW	5.00 ML	WP112783		
LCSWD	5.00 ML	WP112784		
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: 10:31

1.0000 gram Balance: 1.0003 (0.9950-1.0050) In Time1: 09:45

Out OVEN TEMP1: 70 °C 08:30 Bal Check Time: Dessicator Time Out1: 11:10

> 10:30 Out Time1:

After Analysis

In OVEN TEMP2 : 71 °C Dessicator Time In2: 12:31 0.0020 gram Balance: 0.0019 (0.0018-0.0022)

11:48 In Time2: 1.0000 gram Balance: 1.0004 (0.9950-1.0050)

Out OVEN TEMP2: 71 °C Dessicator Time Out2: 13:00 13:05 Bal Check Time:

> 12:30 Out Time2:

Reviewed By:Iwona On:6/26/2025 2:56:50 PM Inst Id :WC SC-3 LB :LB136277

WORKLIST(Hardcopy Internal Chain)

NS 136277

Date: 06-26-2025 07:49:50 Collect Date Method 06/25/2025 1664A 06/25/2025 1664A Raw Sample Storage Location D41 **D51** Customer ARAM01 PSEG03 Department: Wet-Chemistry Conc H2SO4 to pH < 2 Conc H2SO4 to pH < 2 Preservative WorkList ID: 190391 Test TPH TH Matrix Water Water

Customer Sample

Sample

tph q2418

WorkList Name:

VAC-TRUCK-4074

Q2418-01 Q2417-01

GRAB

Date/Time OG 126115

Raw Sample Received by:

Raw Sample Relinquished by:

Page 1 of 1

Raw Sample Received by: Rg (UC)

Date/Time OCIAGIAS OB!, 00



TEMP1 IN:

TEMP2 IN:

TEMP4 IN:

TOTAL SUSPENDED SOLIDS - SM2540D

SUPERVISOR: Iwona

ANALYST: jignesh

Date: 06/25/2025

Run Number: LB136278

BalanceID: WC SC-6

OvenID: WC OVEN-1

FilterID: 17416528

ThermometerID: WET OVEN#1

103 °C 06/26/2025 11:00 104 °C 06/26/2025 09:30 TEMP3 OUT: TEMP3 IN: 104 °C 06/26/2025 11:30 TEMP4 OUT:

104 °c 06/25/2025 15:00

103 °C 06/25/2025 16:30

104 °c 06/26/2025 13:10

Dish #	Lab ID	Client ID	Empty Dish Weight (g)	Final Empty Dish Weight (g)	Sample Volume (ml)	1st Empty Dish+Sample weight after 1.5hr drying @103-@105°C (g)	2nd Empty Dish+Sample weight after 1.5hr drying @103-@105°C (g)	Final Empty Dish+Sample weight after 1.5hr drying @103-@105°C (g)	Weight (g)	Result mg/L
1	LB136278BL	LB136278BL	1.3577	1.3577	100	1.3578	1.3578	1.3578	0.0001	1
2	LB136278BS	LB136278BS	1.5903	1.5903	100	1.6436	1.6436	1.6436	0.0533	533
3	Q2417-02	COMP	1.4794	1.4794	50	1.5113	1.5113	1.5113	0.0319	638
4	Q2418-01	VAC-TRUCK-4074	1.4907	1.4907	500	1.5673	1.5673	1.5673	0.0766	153.2
5	Q2418-01DUP	VAC-TRUCK-4074DUP	1.4685	1.4685	500	1.5479	1.5479	1.5479	0.0794	158.8
6	Q2426-01	001-WILLETS-PT-BLVD(MAY)	1.4972	1.4972	100	1.5190	1.5190	1.5190	0.0218	218
7	Q2426-02	002-35th-Ave(May)	1.4841	1.4841	100	1.5090	1.5090	1.5090	0.0249	249

Sample Volume (ml)

Final Empty Dish Weight (g)

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

104 °C 06/25/2025 14:00 TEMP1 OUT:

103 °C 06/25/2025 15:30 TEMP2 OUT:

Weight (g)

Weight (g) =C - B

D Result mg/L =1000 1000 Α

Reviewed By:Iwona On:6/26/2025 2:56:38 PM Inst Id :WC SC-3 LB :LB136278

141.30

WORKLIST(Hardcopy Internal Chain)

Department: Wet-Chemistry

WorkList ID: 190390

tss q2418

WorkList Name:

Matrix

Customer Sample

Sample

Water Water Water Water

001-WILLETS-PT-BLVD(MAY)

002-35th-Ave(May)

0

Q2426-02

VAC-TRUCK-4074

COMP

Q2417-02 B Q2418-01 P Q2426-01 B

Up tolerts

SM2540 D 06/25/2025 SM2540 D SM2540 D SM2540 D Date: 06-26-2025 07:48:31 Collect Date Method 06/25/2025 06/24/2025 06/24/2025 Raw Sample Storage Location **D41 D51** A53 A53 PSEG03 Customer ARAM01 TULL01 TULL01 Cool 4 deg C Cool 4 deg C Cool 4 deg C Cool 4 deg C Preservative Test TSS TSS TSS TSS

Raw Sample Received by:

Raw Sample Relinquished by:

Date/Time OCIACIAS OS, UC

Date/Time 06/16/145 Raw Sample Received by:

Raw Sample Relinquished by:

Alliance

QC BATCH ID: LB136297

BOD Water: WP113723

Starch: W3149

POLYSEED: WP113725

GGA: WP113724

Sulfuric acid, 1N: WP112832

Chlorine Strips: W3155

pH Strips: W3215

BOD5 LOG

ANALYST: rubir Inst Id :DO METER

Reviewed By:Iwona On:7/1/2025 12:18:37

SUPERVISOR: Iwona

Analysis Date: 06/26/2025

MANGANOUS SULFATE SOLUTION: W3103

Alkaline Iodide Azide: W3109

Sodium Thiosulfate, 0.025N: W3105

NaOH, 1N: WP111323

IncubatorID: INCUBATOR #3

GuageID: 0511064

Zero DO: WP113605

Lab SampleID	Client ID	Bottle No.	VOL.	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	9.7	19.2	9.5	9.5

Barometric Pressure1: 765 mmHg DO Meter BOD fluid reading for winkler comparison: 9.59

After Incubation

Meter Calibration2: 8.79 Zero DO Reading2: 0.12 mg/L (<=0.2 Criteria)

Barometric Pressure2: 760 mmHg



QC BATCH ID: LB136297

INCUBATOR TEMP IN(C): 20.0

TIME IN: 16:40

DATE IN: 06/26/2025

INCUBATOR TEMP OUT (C): 20.1

TIME OUT: 11:30

DATE OUT: 07/01/2025

Lab SampleID	Bottle No.	Check CL	Initial PH	Final PH	Temp °C	Sam Vol. (mL)	D.O.1 Initial	D.O.2 Final	Depletion	BOD Result (mg/L)	Avg Result (mg/L)	Comment
LB136297BL	1	No	6.60	N/A	20.80	300	9.59	9.57	0.02	0.02	0.02	
POLYSEED	1					10	9.54	6.17	3.37	0.67	0.64	
POLYSEED	2					15	9.51	4.78	4.73	0.63		
POLYSEED	3					20	9.49	3.29	6.2	0.62		
GGA	1					6	9.55	5.41	4.14	175	179.33	
GGA	2					6	9.53	5.23	4.3	183		
GGA	3					6	9.53	5.29	4.24	180		
Q2417-02	1	No	7.24	N/A	20.20	5	9.53	8.81	-	0	480.33	
Q2417-02	2					10	9.49	7.10	2.39	525		
Q2417-02	3					20	9.47	6.95	2.52	282		
Q2417-02	4					30	9.33	2.35	6.98	634		
Q2417-02DUP	1	No	7.24	N/A	20.20	5	9.53	8.69	-	0	485.33	
Q2417-02DUP	2					10	9.48	7.00	2.48	552		
Q2417-02DUP	3					20	9.45	6.91	2.54	285		
Q2417-02DUP	4					30	9.32	2.49	6.83	619		
Q2418-01	1	No	7.48	N/A	20.90	5	9.51	6.00	3.51	172.2	172.2	
Q2418-01	2					20	9.24	0.35	-	0		
Q2418-01	3					50	8.30	0.28	-	0		
Q2418-01	4					150	5.08	0.15	-	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:7/1/2025 12:18:37 PM Inst Id :DO METER LB :LB136297

t6298197

Date: 06-26-2025 13:10:49

Collect Date Method

Raw Sample

Storage Location

Customer

Preservative

Test

Matrix

Customer Sample

Sample

SM5210 B SM5210 B

06/25/2025 06/25/2025

D51 141

ARAM01 PSEG03

Cool 4 deg C Cool 4 deg C

BOD5 BOD5

Water Water

VAC-TRUCK-4074

COMP

Q2417-02 Q2418-01

WORKLIST(Hardcopy Internal Chain)

WorkList ID: 190416

BOD5-06-26

WorkList Name:

Department: Wet-Chemistry

06/26/2015

Date/Time

Raw Sample Relinquished by:

Raw Sample Received by:

Raw Sample Received by:

Raw Sample Relinquished by:

RIT CONC

Page 1 of 1



Instrument ID: WC SC-3

Daily Analysis Runlog For Sequence/QCBatch ID # LB136277

Review By	jignesh		Review On	6/26/2025 2:33:20 PM						
Supervise By	Iwona		Supervise On	6/26/2025 2:56:50 PM						
SubDirectory	LB136277		Test	TPH						
STD. NAME STD REF.#										
ICAL Standard		N/A								
ICV Standard		N/A								
CCV Standard		N/A								
ICSA Standard		N/A								
CRI Standard		N/A								
LCS Standard		N/A	/A							
Chk Standard		W3204,M6069,EP2622,	WP112782,W3079,NA,WP112783,WP	112784,NA						

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	LB136277BL	LB136277BL	МВ	06/26/25 09:45		jignesh	ок
2	LB136277BS	LB136277BS	LCS	06/26/25 09:45		jignesh	ок
3	LB136277BSD	LB136277BSD	LCSD	06/26/25 09:45		jignesh	ок
4	Q2417-01	GRAB	SAM	06/26/25 09:45		jignesh	ок
5	Q2418-01	VAC-TRUCK-4074	SAM	06/26/25 09:45		jignesh	ОК



Instrument ID: WC SC-3

Daily Analysis Runlog For Sequence/QCBatch ID # LB136278

Review By	jignesh		Review On	6/26/2025 2:53:10 PM
Supervise By	Iwona		Supervise On	6/26/2025 2:56:38 PM
SubDirectory	LB136278		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	CS Standard N/A			
Chk Standard				

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	LB136278BL	LB136278BL	MB	06/26/25 09:30		jignesh	ок
2	LB136278BS	LB136278BS	LCS	06/26/25 09:30	55 mg w3186 + 100 ml w3112	jignesh	OK
3	Q2417-02	СОМР	SAM	06/26/25 09:30		jignesh	ок
4	Q2418-01	VAC-TRUCK-4074	SAM	06/26/25 09:30		jignesh	ок
5	Q2418-01DUP	VAC-TRUCK-4074DU	DUP	06/26/25 09:30		jignesh	ок
6	Q2426-01	001-WILLETS-PT-BL\	SAM	06/26/25 09:30		jignesh	ОК
7	Q2426-02	002-35th-Ave(May)	SAM	06/26/25 09:30		jignesh	ОК



Instrument ID: DO METER

Daily Analysis Runlog For Sequence/QCBatch ID # LB136297

Review By	w By rubina		Review On	7/1/2025 12:18:04 PM				
Supervise By	e By Iwona		Supervise On	7/1/2025 12:18:37 PM				
SubDirectory	ctory LB136297		Test	BOD5				
STD. NAME		STD REF.#						
ICAL Standard		N/A						
ICV Standard		N/A						
CCV Standard		N/A						
ICSA Standard		N/A						
CRI Standard		N/A						
LCS Standard		N/A						
Chk Standard								

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	LB136297BL	LB136297BL	МВ	06/26/25 16:40		rubina	ок
2	LB136297BS	LB136297BS	LCS	06/26/25 16:40		rubina	ок
3	Q2417-02	COMP	SAM	06/26/25 16:40		rubina	ОК
4	Q2417-02DUP	COMPDUP	DUP	06/26/25 16:40		rubina	ОК
5	Q2418-01	VAC-TRUCK-4074	SAM	06/26/25 16:40		rubina	ОК



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

8900, Fax: 908 789 8922

Prep Standard - Chemical Standard Summary

Order ID :	Q2417
Test:	BOD5,TPH,TSS
Prepbatch ID :	
Sequence ID/Qc Bat	ch ID: LB136277,LB136278,LB136297,
Sequence ID/QC Dat	CH ID. 25 100277,25 100270,25 100207,
Standard ID : EP2622,WP111323,V	NP112782,WP112783,WP112784,WP112832,WP113723,WP113724,WP113725,
Chemical ID : E3551,E3917,M6041 12,W3113,W3144,W3	,M6069,M6151,W2653,W2654,W2817,W2871,W3009,W3079,W3082,W3103,W3105,W3109,W31 3149,W3204,W3212,



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	EP2622	06/13/2025	12/04/2025	RUPESHKUMA	Extraction_SC	None	
					R SHAH	ALE_2		06/16/2025
	4000 00000 man of F3551 — Final C		00.000			(EX-SC-2)		

FROM 4000.0000gram of E355	1 = Final Quantity: 4000.000 g	jram
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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
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



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
229	1:1 HCL	WP112782	04/22/2025	08/18/2025	Jignesh Parikh	None	None	, , ,
								04/22/2025

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

Recipe				<u>Expiration</u>	<u>Prepared</u>			Supervised By
<u>ID</u>	NAME	NO.	Prep Date	<u>Date</u>	<u>By</u>	<u>ScaleID</u>	<u>PipetteID</u>	Iwona Zarych
2470	1664A SPIKING SOLN	WP112783	04/22/2025	10/03/2025	Jignesh Parikh	WETCHEM_S	None	ļ
						CALE_8 (WC		04/22/2025

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



Wet Chemistry STANDARD PREPARATION LOG

Recipe				Expiration	Prepared		D: # ID	Supervised By
<u>ID</u>	NAME	<u>NO.</u>	Prep Date	<u>Date</u>	<u>By</u>	<u>ScaleID</u>	<u>PipetteID</u>	Iwona Zarych
3374	1664A QCS spiking solution-SS	WP112784	04/22/2025	10/03/2025	Jignesh Parikh	WETCHEM S	None	·
	. 0					CALE_8 (WC		04/22/2025
FROM	1000.00000ml of E3917 + 4.00000gr	am of W300	9 + 4.00000g	ram of W3082	= Final Quantit	SC-7) y: 1000.000 ml		

<u>MO</u>	1000.00000ml of E3917	+ 4.00000gram of W3009	+ 4.00000gram of W3082	= 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
1841	Sulfuric Acid, 1N	WP112832	04/25/2025	10/25/2025	Rubina Mughal	None	WETCHEM_F	•
							IPETTE_3	04/25/2025

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



Alliance

Fax: 908 789 8922

Wet Chemistry STANDARD PREPARATION LOG

Recipe	NAME	NO	Duois Data	Expiration	<u>Prepared</u>	CastalD	DinestalD	Supervised By
<u>ID</u> 127	NAME BOD Dilution fluid	NO. WP113723	Prep Date 06/26/2025		<u>By</u> Rubina Mughal	<u>ScaleID</u> None	PipetteID None	Iwona Zarych
					ŭ			06/27/2025

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

Recipe ID	<u>NAME</u>	<u>NO.</u>	Prep Date	Expiration Date	Prepared By	<u>ScaleID</u>	<u>PipettelD</u>	Supervised By Iwona Zarych
129	Glutamic acid-glucose mix for BOD	<u>WP113724</u>	06/26/2025	06/27/2025	Rubina Mughal	WETCHEM_S CALE_7 (WC	None	06/27/2025

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. WP113725	Prep Date 06/26/2025		<u>Prepared</u> <u>By</u> Rubina Mughal	<u>ScaleID</u> None	PipetteID None	Supervised By Iwona Zarych 06/27/2025
FROM	1.00000PILLOW of W3212 + 300.00	000ml of WF	P113723 = Fi	nal Quantity: 30	00.000 ml			



Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	PC19631-100 / SODIUM SULFATE, ANHYDROUS, PEST GRADE, 1	313201	12/04/2025	01/03/2024 / Rajesh	07/20/2023 / Rajesh	E3551
Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9254-03 / Acetone, Ultra Resi (cs/4x4L)	24H2762008	10/03/2025	04/03/2025 / Rajesh	03/31/2025 / Rajesh	E3917
Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9673-33 / Sulfuric Acid, Instra-Analyzed (cs/6c2.5L)	23D2462010	03/20/2028	08/16/2024 / mohan	08/16/2024 / mohan	M6041
Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
DCI Colontific	440440 / 7507	80A0441		09/03/2024 /	08/19/2024 /	
PCI Scientific Supply, Inc.	140440 / TEST PAPERS,PH,0-2.5,.2SENSI, 100PK	00A044 I	02/29/2028	jignesh	Jaswal	M6069
	PAPERS,PH,0-2.5,.2SENSI,	Lot #	Expiration Date			M6069 Chemtech Lot #
Supply, Inc.	PAPERS,PH,0-2.5,.2SENSI, 100PK		Expiration	jignesh Date Opened /	Jaswal Received Date /	Chemtech
Supply, Inc. Supplier	PAPERS,PH,0-2.5,.2SENSI, 100PK ItemCode / ItemName BA-9530-33 / Hydrochloric Acid, Instra-Analyzed	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By 01/15/2025 /	Chemtech Lot #



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



Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	4620-32 / MANGANOUS SULFATE SOLUTION-364	2403J02	03/31/2026	04/22/2024 / Iwona	04/22/2024 / Iwona	W3103
Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	AL69870-8 / SODIUM THIOSULFATE,0.025N,4LIT RE	4403S13	09/30/2025	04/22/2024 / Iwona	04/22/2024 / Iwona	W3105
Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	AL04100-4 / Alkaline lodide Azide, 1 L	1405D67	04/30/2026	05/23/2024 / Iwona	05/23/2024 / Iwona	W3109
Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	DIW / DI Water	Daily Lab-Certified	07/03/2029	07/03/2024 / Iwona	07/03/2024 / Iwona	W3112
Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
	PC19510-7 / Sodium	23B1556310	12/31/2025	07/08/2024 /	07/08/2024 /	
PCI Scientific Supply, Inc.	Hydroxide Pellets 12 Kg	2361330310	12/01/2020	Iwona	lwona	W3113
		Lot #	Expiration Date			Chemtech



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 / lwona	W3149

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

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



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

Manufactured Date: 2020/05/05

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

Certificate of Analysis

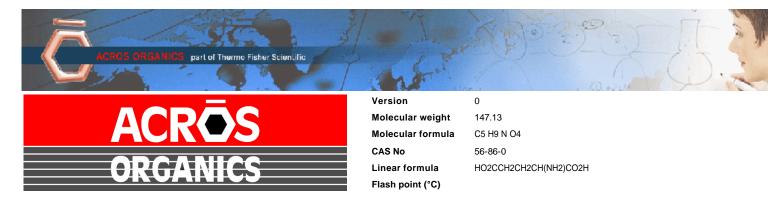
Test	Specification	Result
Assay (CH3(CH2)14CH3) (by GC)	>= 99.0 %	99.3
Infrared Spectrum	Passes Test	PT

For Laboratory, Research or Manufacturing Use

Country of Origin: US

Packaging Site: Paris Mfg Ctr & DC





Certificate of Analysis

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

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

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





L. Van den Broek, QA Manager

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

Issued: 24 January 2020

Thermo Fisher SCIENTIFIC

W 2817 Nec. 04/02/2021

Product Specification

Product Name:

Stearic acid, 98%, Thermo Scientific Chemicals

Catalog Number:

A12244.14

CAS Number:

57-11-4

Molecular Formula:

C18H36O2

Molecular Weight:

284.48

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.



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

Acetone BAKER RESI-ANALYZED® Reagent For Organic Residue Analysis



Material No.: 9254-03

Batch No.: 24H2762008

Manufactured Date: 2024-04-18

Expiration Date: 2027-04-18

Revision No.: 0

Certificate of Analysis

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

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

Country of Origin: United States

Packaging Site: Phillipsburg Mfg Ctr & DC

Recd by RP cn 03/31/25



Director Quality Operations, Bioscience Production

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





Material No.: 9673-33

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

Retest Date: 2028-03-20

Revision No.: 0

Certificate of Analysis

Test	Specification	Result
ACS - Assay (H2SO4)	95.0 - 98.0 %	96,1 %
Appearance	Passes Test	Passes Test
ACS - Color (APHA)	≤ 10	5
ACS – Residue after Ignition	≤ 3 ppm	< 1 ppm
ACS - Substances Reducing Permanganate (as SO2)	≤ 2 ppm	< 2 ppm
Ammonium (NH ₄)	≤ 1 ppm	1 ppm
Chloride (CI)	≤ 0.1 ppm	< 0.1 ppm
Nitrate (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





M6151

R-> 1/15/25

Material No.: 9530-33

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

Retest Date: 2027-06-14

Revision No.: 0

Certificate of Analysis

Test	Specification	Result
ACS - Assay (as HCI) (by acid-base titrn)	36.5 - 38.0 %	
ACS - Color (APHA)	50.5 - 38.0 % ≤ 10	37.9 %
ACS - Residue after Ignition	≤ 3 ppm	5
ACS - Specific Gravity at 60°/60°F		< 1 ppm
ACS – Bromide (Br)	1.185 - 1.192	1.191
ACS - Extractable Organic Substances	≤ 0.005 %	< 0.005 %
ACS - Free Chlorine (as Cl2)	≤ 5 ppm	< 1 ppm
Phosphate (PO ₄)	≤ 0.5 ppm	< 0.5 ppm
Sulfate (SO ₄)	≤ 0.05 ppm	< 0.03 ppm
Sulfite (SO₃)	≤ 0.5 ppm	< 0.3 ppm
Ammonium (NH ₄)	≤ 0.8 ppm	0.3 ppm
Trace Impurities - Arsenic (As)	≤ 3 ppm	< 1 ppm
Trace Impurities – Aluminum (AI)	≤ 0.010 ppm	< 0.003 ppm
Arsenic and Antimony (as As)	≤ 10.0 ppb	1.3 ppb
Trace Impurities - Barium (Ba)	≤ 5.0 ppb	< 3.0 ppb
Trace Impurities – Beryllium (Be)	≤ 1.0 ppb	0.2 ppb
Trace Impurities - Bismuth (Bi)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities – Boron (B)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Cadmium (Cd)	≤ 20.0 ppb	< 5.0 ppb
Trace Impurities – Calcium (Ca)	≤ 1.0 ppb	< 0.3 ppb
Trace Impurities - Calcium (Ca) Trace Impurities - Chromium (Cr)	≤ 50.0 ppb	163.0 ppb
Trace Impurities - Cobalt (Co)	≤ 1.0 ppb	0.7 ppb
	≤ 1.0 ppb	< 0.3 ppb
Trace Impurities - Copper (Cu)	≤ 1.0 ppb	< 0.1 ppb
Trace Impurities - Gallium (Ga)	≤ 1.0 ppb	< 0.2 ppb
Frace Impurities – Germanium (Ge)	≤ 3.0 ppb	< 2.0 ppb
Frace Impurities – Gold (Au)	≤ 4.0 ppb	0.6 ppb
Heavy Metals (as Pb)	≤ 100 ppb	< 50 ppb
Frace Impurities – Iron (Fe)	≤ 15 ppb	6 ppb

>>> Continued on page 2 >>>

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





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

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

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





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

Test

Specification

Result

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

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



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 %

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



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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

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

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

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Certificate of Analysis

Sodium Thiosulfate, 0.0250 Normal (N/40)

Lot Number: 4403S13 Product Number: 7900

Manufacture Date: MAR 29, 2024

Expiration Date: SEP 2025

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

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

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

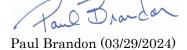
Specification	Reference	
Standard Sodium Thiosulfate Solution, 0.0250 N	APHA (4500-S2- F)	
Standard Sodium Thiosulfate Titrant	APHA (4500-O D)	
Standard Sodium Thiosulfate Titrant	APHA (4500-O E)	
Standard Sodium Thiosulfate Titrant	APHA (4500-O F)	
Standard Sodium Thiosulfate Titrant, 0.025 N	APHA (4500-Cl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

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

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

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

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



Production Manager

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

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

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

customerservice@riccachemical.com

Certificate of Analysis

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

Lot Number: 1405D67 Product Number: 535

Manufacture Date: APR 05, 2024

Expiration Date: APR 2026

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

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

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

Specification	Reference

Alkaline Iodide-Sodium Azide Solution II

ASTM (D 888 A)

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

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

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

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

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



Certificate of Analysis

12/14/2022

12/31/2025

Sodium Hydroxide (Pellets)

Material: 0583

Grade: ACS GRADE Batch Number: 23B1556310

Chemical Formula: NaOH
Molecular Weight: 40

CAS #: 1310-73-2

Appearance: Storage: Room Temperature

Pellets

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

Manufacture Date:

Expiration Date:

Internal ID #: 710

Signature Additional Information

We certify that this batch conforms to the specifications listed.

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

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

28600 Fountain Parkway, Solon OH 44139 USA

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

Product meets analytical specifications of the grades listed.



Certificate of Analysis

12/14/2022

12/31/2025

Room Temperature

Manufacture Date:

Expiration Date:

Storage:

Sodium Hydroxide (Pellets)

Material: 0583

Grade: ACS GRADE Batch Number: 23B1556310

Chemical Formula: NaOH Molecular Weight: 40

CAS #: 1310-73-2

Appearance:

Pellets

Spec Set: 0583ACS

Internal ID #: 710

Signature Additional Information

We certify that this batch conforms to the specifications listed.

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

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

Product meets analytical specifications of the grades listed.



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)					

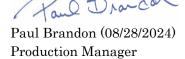
Specification	Reference
Starch Solution	APHA (4500-S2- F)
Starch Indicator Solution	APHA (4500-C1 B)
Starch Indicator	APHA (4500-SO32- B)
Starch indicator solution	APHA (2350 B)
Starch indicator solution	APHA (2350 E)
Starch Solution	APHA (510 B)
Starch Solution	APHA (5530 C)
Starch Indicator	APHA (4500-C1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

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





08018, 0d/12/19082

Material No.: 9262-03

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

Expiration Date:2026-04-30

Revision No.: 0

Certificate of Analysis

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

MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: United States

Packaging Site: Phillipsburg Mfg Ctr & DC



Director Quality Operations, Bioscience Production

N3212 Deceived on 5/21/25 by 12



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

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

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

FORMULATION:

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

VIABLE COUNT, FINAL TEST RESULT:

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

GLUCOSE/GLUTAMIC-ACID RESULTS:

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

See www.polyseed.com for details.

SEED CONTROL FACTOR:

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

SALMONELLA TEST RESULT:

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

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

Signature:

Date: 09/13/2024

Quality Control Department

POLYSEED.Ref.1.19

Revised Jan 24







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 2017523

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ADDRESS:	740 Frelinghuysen Aut.	PROJEC	T NO.:		LOCA	ATION:	/			ADDR	ESS:						
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	Jarrod Mills	e-mail:								ATTENTION: PHONE:					NE:		
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Laboratory Certification

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

QA Control Code: A2070148