

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

Q1432 OrderID:

American Wax Client: Contact: Steve Pollack

OrderDate: Project:

2/26/2025 11:53:00 AM Semi Annual 2025

H11

Location:

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q1432-01	NON POLAR MATERIAL	WATER			02/26/25 10:00			02/26/25
			Non-Polar Material	1664A			02/27/25 10:25	
Q1432-02	NON POLAR MATERIAL	WATER			02/26/25 10:30			02/26/25
			Non-Polar Material	1664A			02/27/25 10:25	
Q1432-03	NON POLAR MATERIAL	WATER			02/26/25 11:00			02/26/25
			Non-Polar Material	1664A			02/27/25 10:25	
Q1432-04	NON POLAR MATERIAL	WATER			02/26/25 11:30			02/26/25
			Non-Polar Material	1664A			02/27/25 10:25	
Q1432-05	BOD	WATER			02/26/25 11:30			02/26/25
			BOD_7	SM5210 B			02/26/25 17:20	
Q1432-06	COD	Water			02/26/25 11:30			02/26/25
			COD	SM5220 D			02/28/25 14:03	



SAMPLE DATA



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

Report of Analysis

Client: American Wax Date Collected: 02/26/25 10:00 Project: Date Received: Semi Annual 2025 02/26/25 Client Sample ID: NON POLAR MATERIAL SDG No.: Q1432 Lab Sample ID: Q1432-01 Matrix: WATER % Solid: 0

Parameter	Conc.	Qua.	DF MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Non-Polar Material	0.40	U	1 0.40	5.00	mg/L		02/27/25 10:25	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



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Fax: 908 789 8922

Report of Analysis

Client: American Wax Date Collected: 02/26/25 10:30 Project: Date Received: Semi Annual 2025 02/26/25 Client Sample ID: NON POLAR MATERIAL SDG No.: Q1432 Lab Sample ID: Q1432-02 Matrix: WATER % Solid: 0

Parameter	Conc.	Qua.	DF MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.	
Non-Polar Material	0.40	J	1 0.40	5.00	mg/L		02/27/25 10:25	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



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Fax: 908 789 8922

Report of Analysis

Client: American Wax Date Collected: 02/26/25 11:00 Project: Date Received: Semi Annual 2025 02/26/25 Client Sample ID: NON POLAR MATERIAL SDG No.: Q1432 Lab Sample ID: Q1432-03 Matrix: WATER % Solid: 0

Parameter	Conc.	Qua.	DF MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Non-Polar Material	0.40	J	1 0.40	5.00	mg/L		02/27/25 10:25	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



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Report of Analysis

Client: American Wax Date Collected: 02/26/25 11:30 Project: Date Received: Semi Annual 2025 02/26/25 Client Sample ID: NON POLAR MATERIAL SDG No.: Q1432 Lab Sample ID: Q1432-04 Matrix: WATER % Solid: 0

Parameter	Conc.	Qua.	DF MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Non-Polar Material	0.60	J	1 0.40	5.00	mg/L		02/27/25 10:25	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



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Report of Analysis

Client: American Wax Date Collected: 02/26/25 11:30 Project: Semi Annual 2025 Date Received: 02/26/25 Client Sample ID: BOD SDG No.: Q1432 Q1432-05 Lab Sample ID: Matrix: WATER % Solid:

Parameter	Conc. Qua	a. DF MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
BOD 7	1810	1 0.17	2.00	mg/L		02/26/25 17:2	20 SM 5210 B-16

Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

D = Dilution

Q = indicates LCS control criteria did not meet requirements

H = Sample Analysis Out Of Hold Time

J = Estimated Value

B = Analyte Found in Associated Method Blank

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

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

OR = Over Range



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Report of Analysis

Client: American Wax Date Collected: 02/26/25 11:30 Project: Semi Annual 2025 Date Received: 02/26/25 Client Sample ID: COD SDG No.: Q1432 Q1432-06 Lab Sample ID: Matrix: Water % Solid: 0

Parameter	Conc. Q	Qua.	DF MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
COD	4500	D :	50 118	500	mg/L		02/28/25 14:03	SM 5220 D-11

Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

D = Dilution

Q = indicates LCS control criteria did not meet requirements

H = Sample Analysis Out Of Hold Time

J = Estimated Value

B = Analyte Found in Associated Method Blank

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

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

OR = Over Range



QC RESULT SUMMARY





Initial and Continuing Calibration Verification

Client: American Wax SDG No.: Q1432

Project: Semi Annual 2025 RunNo.: LB134856

Analyte		Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID:	ICV	mg/L	49.329	50	99	95-105	01/22/2025
Sample ID:	CCV1	mg/L	50.319	50	101	95-105	02/28/2025
Sample ID:	CCV2	mg/L	50.319	50	101	95-105	02/28/2025
Sample ID:	CCV3	mg/L	50.319	50	101	95-105	02/28/2025





Initial and Continuing Calibration Blank Summary

Client: American Wax SDG No.: Q1432

Project: Semi Annual 2025 RunNo.: LB134856

Analyte		Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID:	ICB	mg/L	< 5.0000	5.0000	Ū	2.35	10	01/22/2025
Sample ID:	CCB1	mg/L	< 5.0000	5.0000	U	2.35	10	02/28/2025
Sample ID:	CCB2	mg/L	< 5.0000	5.0000	Ū	2.35	10	02/28/2025
Sample ID:	CCB3	mg/L	< 5.0000	5.0000	Ŭ	2.35	10	02/28/2025





Preparation Blank Summary

Client: American Wax SDG No.: Q1432

Project: Semi Annual 2025

Analyte		Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID:	LB134820	BL						
BOD_7		mg/L	< 1.0000	1.0000	U	0.17	2	02/26/2025
Sample ID:	LB134829	BL						
Non-Polar	Material	mg/L	< 2.5000	2.5000	U	0.4	5.0	02/27/2025
Sample ID:	LB134856	BL						
COD		mg/L	< 5.0000	5.0000	U	2.35	10.0	02/28/2025



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Matrix Spike Summary

Client: American Wax SDG No.: Q1432

Project: Semi Annual 2025 Sample ID: Q1439-01

Client ID: LRSA-MODMS Percent Solids for Spike Sample: 0

		Acceptance	Spiked	Conc.	Sample	Conc.	Spike	Dilution	%		Analysis
Analyte	Units	Limit %R	Result	Qualifier	Result	Qualifier	Added	Factor	Rec	Qual	Date
COD	mg/L	75-125	51.3		3.79	J	50.0	1	95		02/28/2025



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Matrix Spike Summary

Client: American Wax SDG No.: Q1432

Project: Semi Annual 2025 Sample ID: Q1439-01

Client ID: LRSA-MODMSD Percent Solids for Spike Sample: 0

		Acceptance	Spiked	Conc.	Sample	Conc.	Spike	Dilution	%		Analysis
Analyte	Units	Limit %R	Result	Qualifier	Result	Qualifier	Added	Factor	Rec	Qual	Date
COD	mg/L	75-125	52.3		3.79	J	50.0	1	97		02/28/2025



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Duplicate Sample Summary

Client: American Wax SDG No.: Q1432

Project: Semi Annual 2025 Sample ID: Q1424-05

Client ID: BODDUP 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
BOD 7	mg/L	+/-20	3470		3370		1	2.81		02/26/2025



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Duplicate Sample Summary

Client: American Wax SDG No.: Q1432

Project: Semi Annual 2025 Sample ID: Q1439-01

Client ID: LRSA-MODDUP 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	
COD	mg/L	+/-20	3.79	J	3.79	J	1	0		02/28/2025	_



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Duplicate Sample Summary

Client: American Wax SDG No.: Q1432

Project: Semi Annual 2025 Sample ID: Q1439-01

Client ID: LRSA-MODMSD 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	
COD	mg/L	+/-20	51.3		52.3		1	1.93		02/28/2025	





Laboratory Control Sample Summary

Client: American Wax SDG No.: Q1432

Project: Semi Annual 2025 Run No.: LB134820

Analyte		Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID	LB134820BS								
BOD 7		mg/L	198	204		103	1	84.6-115.4	02/26/2025



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Laboratory Control Sample Summary

Client: American Wax SDG No.: Q1432

Project: Semi Annual 2025 Run No.: LB134829

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID LB134829BS								
Non-Polar Material	mg/L	20.0	16.7		84	1	78-114	02/27/2025





Laboratory Control Sample Summary

Client: American Wax SDG No.: Q1432

Project: Semi Annual 2025 Run No.: LB134856

Analyte		Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID	LB134856BS								
COD		mg/L	50	49.3		99	1	90-110	02/28/2025



RAW DATA

Alliance

QC BATCH ID: LB134820

BOD Water: WP112062

Starch: W3149

POLYSEED: WP112064

GGA: WP112063

Sulfuric acid, 1N: WP110386

Chlorine Strips: W3155

pH Strips: W3140

BOD 7 LOG

ANALYST: rubir nst ld:DO METER

Reviewed By:Iwona On:3/6/2025 11:42:59

SUPERVISOR: Iwona

Analysis Date: 02/26/2025

MANGANOUS SULFATE SOLUTION: W3103

Alkaline Iodide Azide: W3109

Sodium Thiosulfate, 0.025N: W3105

NaOH, 1N: WP111323

IncubatorID: INCUBATOR #3

GuageID: 0511062

Zero DO: WP111875

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	9.6	19.1	9.5	9.5

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

After Incubation

Meter Calibration2: 9.28 Zero DO Reading2: 0.14 mg/L (<=0.2 Criteria)

Barometric Pressure2: 755 mmHg



QC BATCH ID: LB134820

INCUBATOR TEMP IN(C): 20.0

TIME IN: 17:20

DATE IN: 02/26/2025

INCUBATOR TEMP OUT (C): 20.1

TIME OUT: 13:30

DATE OUT: 03/05/2025

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
LB134820BL	1	No	6.59	N/A	20.80	300	9.53	9.51	0.02	0.02	0.02	
POLYSEED	1					10	9.51	7.02	2.49	0.5	0.53	
POLYSEED	2					15	9.46	5.63	3.83	0.51		
POLYSEED	3					20	9.42	3.67	5.75	0.57		
GGA	1					6	9.41	5.01	4.4	193.5	203.5	
GGA	2					6	9.41	4.57	4.84	215.5		
GGA	3					6	9.43	4.87	4.56	201.5		
Q1424-05	1	No	7.00	N/A	20.20	0.1	9.50	7.72	-	0	3468	
Q1424-05	2					0.5	9.40	3.09	6.31	3468		
Q1424-05	3					1	9.39	0.19	-	0		
Q1424-05	4					5	9.15	0.10	-	0		
Q1424-05DUP	1	No	7.00	N/A	20.20	0.1	9.50	8.59	-	0	3372	
Q1424-05DUP	2					0.5	9.42	3.27	6.15	3372		
Q1424-05DUP	3					1	9.39	0.14	-	0		
Q1424-05DUP	4					5	9.13	0.09	-	0		
Q1432-05	1	No	6.87	N/A	20.60	0.1	9.31	8.29	-	0	1809	
Q1432-05	2					0.5	9.28	5.58	3.7	1902		
Q1432-05	3					1	9.14	2.89	6.25	1716		
Q1432-05	4					5	8.96	0.62	-	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.



Extraction and Analytical Summary Report

Analysis Method: 1664A

Test: Non-Polar Material

Run Number: LB134829

Analysis Date: 02/27/2025

BalanceID: WC SC-6

OvenID: EXT OVEN-3

ANALYST: jignesh

REVIEWED BY: Iwona

Extraction Date: 02/27/2025

Extration IN Time: 08:25

Extration OUT Time: 09:40

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

Dish #	Lab ID	Client ID	Matrix	рН	Sample Vol (ml)	Final Volume (ml)	Empty Dish Weight (q)	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	LB134829BL	LB134829BL	WATER	1.3	1000	100	2.5631	2.5631	3.01	2.5632	2.5632	0.0001	0.1
2	LB134829BS	LB134829BS	WATER	1.3	1000	100	2.9637	2.9637	3.02	2.9804	2.9804	0.0167	16.7
3	Q1424-01	NON POLAR MATERIAL	WATER	1.6	1000	100	3.0774	3.0774	3.03	3.0784	3.0784	0.0010	1
4	Q1424-02	NON POLAR MATERIAL	WATER	1.6	1000	100	3.1482	3.1482	3.04	3.1491	3.1491	0.0009	0.9
5	Q1424-03	NON POLAR MATERIAL	WATER	1.6	1000	100	3.0420	3.0420	303.00	3.0432	3.0432	0.0012	1.2
6	Q1424-04	NON POLAR MATERIAL	WATER	1.6	1000	100	3.0155	3.0155	3.02	3.0166	3.0166	0.0011	1.1
7	Q1429-01	OUTFALL-DSN-001	WATER	1.3	1000	100	3.0501	3.0501	3.04	3.0504	3.0504	0.0003	0.3
8	Q1429-02	OUTFALL-DSN-002	WATER	1.3	1000	100	3.0324	3.0324	3.05	3.0332	3.0332	0.0008	0.8
9	Q1432-01	NON POLAR MATERIAL	WATER	1.6	1000	100	3.1603	3.1603	3.02	3.1606	3.1606	0.0003	0.3
10	Q1432-02	NON POLAR MATERIAL	WATER	1.6	1000	100	2.9903	2.9903	3.04	2.9907	2.9907	0.0004	0.4
11	Q1432-03	NON POLAR MATERIAL	WATER	1.6	1000	100	3.0484	3.0484	3.03	3.0488	3.0488	0.0004	0.4
12	Q1432-04	NON POLAR MATERIAL	WATER	1.6	1000	100	3.1201	3.1201	3.01	3.1207	3.1207	0.0006	0.6



QC Batch# LB134829

Test: Non-Polar Material

Analysis Date: 02/27/2025

Chemicals Used:

Chemical Name	Chemical Lot #
HEXANE	W3177
pH Paper 0-14	М6069
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 : 11:01

1.0000 gram Balance: 1.0003 (0.9950-1.0050) In Time1: 10:25

Bal Check Time: 08:30 Out OVEN TEMP1: 70 °C Dessicator Time Out1: 11:35

Out Time1: 11:00

After Analysis

0.0020 gram Balance: 0.0019 (0.0018-0.0022) In OVEN TEMP2 : 71 °C Dessicator Time In2 : 13:01

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

Bal Check Time: 13:45 Out OVEN TEMP2: 71 °C Dessicator Time Out2: 13:40

Out Time2: 13:00

On:2/27/2025 4:56:2 PM Inst Id :WC SC-3 B :LB134829

WORKLIST(Hardcopy Internal Chain)

WorkList ID: 187914

non poplar p1424

WorkList Name:

prepel or

	non popiar p 1424	WorkList ID:	ID: 187914	Department: Wet-C	Wet-Chemistry	Da	Date: 02-27-20	02-27-2025 08:13:33
Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location		Method
Q1424-01	NON POLAR MATERIAL	Water	Non-Polar Material	OF THE ST POSCH CASO				
O1424-02	I SIGNED AS I SO NON			College Section 12	AMERUS	D11	02/25/2025 1664A	1664A
	NOW FOLAR MAI ERIAL	Water	Non-Polar Material	Conc H2SO4 to pH < 2	AMER08	011	02/25/2025	10040
Q1424-03	NON POLAR MATERIAL	Water	Non-Polar Material	Conc H2SO4 to pH < 2	AMEDOO		020202020	A+001
Q1424-04	INDU POLICE IN TAIL OF THE PROPERTY OF THE PRO	MARTIN			AMENDO		UZ/Z5/2025 1664A	1664A
		water	Non-Polar Material	Conc H2SO4 to pH < 2	AMER08	D11	02/25/2025 166/A	16644
Q1429-01 CX	OUTFALL-DSN-001	Water	Non-Polar Material	Conc H2SO4 to pH < 2	TDIESS		202020	4
C1429-02 (54	A OUTEAL DENIGO			2 1 10 01 10 10 10 10 10 10 10 10 10 10 1	INISUZ	LLO	02/25/2025	1664A
	-1	Water	Non-Polar Material	Conc H2SO4 to pH < 2	TRIS02	D11	02/25/2025 1664A	16644
Q1432-01	NON POLAR MATERIAL	Water	Non-Polar Material	Conc H2SO4 to nH < 2	AMEDOS	:	OFICE OF STATE OF STA	7400
Q1432-02	NON POLAR MATERIAL	Wafer	Non-Dolar Material		SOMETIMOS		UZ/Z6/2025 1664A	1664A
04490 00			Marchal	Conc HZSO4 to pH < 2	AMER08	H11	02/26/2025 1664A	1664A
CU-7C+15	NON POLAR MATERIAL	Water	Non-Polar Material	Conc H2SO4 to pH < 2	AMER08	H11	00/26/2002	4 7 0 0 0
Q1432-04	NON POLAR MATERIAL	Water	Non-Polar Material	Or III of Modern			0212012020	1004A
			Disposition of the second	COIIC 112304 (0 pH < 2	AMER08	H11	02/26/2025 1664A	1664A

Date/Time 021 141115

Raw Sample Received by:

Raw Sample Relinquished by:

Page 1 of 1

Date/Time O2/14/11/5 US 120

Raw Sample Received by: - 1 Co.)

Raw Sample Relinquished by:



Analytical Summary Report

Analysis Method: SM5220 D ANALYST: Niha

Parameter: COD SUPERVISOR REVIEW BY: Iwona

Run Number: LB134856

Reagent/Standard	Lot/Log #
COD ICV-LCS std, 50ppm	WP111522
COD calibration std. 100 ppm	WP111519
COD calibration std. 10 ppm	WP111517
COD calibration std. 150 ppm	WP111520
COD calibration std. 50 ppm	WP111518
COD calibration std. 0 ppm	WP111516
COD Digestion Vials Low Level 0-150Mg/L	W3126
COD ICV-LCS std, 50ppm	WP112005
COD CCV std, 50ppm	WP112004

Temp In(C): 148	Date In: 02/28/2025	Time In: 09:30
Temp Out(C): 150	Date Out: 02/28/2025	Time Out: 11:30

Intercept: 0.1675 Slope: 1.0102 Regression: 1

Seq	Lab ID	TrueValue (mg/l)	DF	MATRIX	Reading	Result (mg/l)	%D	Anal Date	Anal Time
. 1	CAL1	0	1	Water	0.000	-0.166		01/22/2025	13:30
. 2	CAL2	10	1	Water	11.000	10.723	7.2	01/22/2025	13:30
. 3	CAL3	50	1	Water	50.000	49.329	-1.3	01/22/2025	13:31
. 4	CAL4	100	1	Water	101.000	99.814	-0.2	01/22/2025	13:31
. 5	CAL5	150	1	Water	152.000	150.299	0.2	01/22/2025	13:32



Analytical Summary Report

Analysis Method: SM5220 D ANALYST: Niha

Parameter: COD SUPERVISOR REVIEW BY: Iwona

Run Number: LB134856

		True	Initial	1	1	I			ı	
Seq	Lab ID	Value (mg/l)	Weight (g)	Final Vol (ml)	DF	MATRIX	Reading	Result	AnalDate	AnalTime
1	ICV	50	NA	NA	1	Water	50.000	49.329	01/22/2025	13:32
2	ICB		NA	NA	1	Water	0.000	-0.166	01/22/2025	13:33
3	CCV1	50	NA	NA	1	Water	51.000	50.319	02/28/2025	14:00
4	CCB1		NA	NA	1	Water	0.000	-0.166	02/28/2025	14:00
5	LB134856BL		NA	NA	1	Water	0.000	-0.166	02/28/2025	14:01
6	LB134856BS	50	NA	NA	1	Water	50.000	49.329	02/28/2025	14:01
7	Q1424-06		NA	NA	50	Water	120.000	118.623	02/28/2025	14:02
8	Q1429-01		NA	NA	1	Water	36.000	35.471	02/28/2025	14:02
9	Q1429-02		NA	NA	20	Water	19.000	18.642	02/28/2025	14:03
10	Q1432-06		NA	NA	50	Water	91.000	89.915	02/28/2025	14:03
11	Q1435-01		NA	NA	1	Water	3.000	2.804	02/28/2025	14:04
12	Q1439-01		NA	NA	1	Water	4.000	3.794	02/28/2025	14:04
13	Q1439-01DUP		NA	NA	1	Water	4.000	3.794	02/28/2025	14:05
14	Q1439-01MS	50	NA	NA	1	Water	52.000	51.309	02/28/2025	14:05
15	CCV2	50	NA	NA	1	Water	51.000	50.319	02/28/2025	14:06
16	CCB2		NA	NA	1	Water	0.000	-0.166	02/28/2025	14:06
17	Q1439-01MSD	50	NA	NA	1	Water	53.000	52.299	02/28/2025	14:07
18	CCV3	50	NA	NA	1	Water	51.000	50.319	02/28/2025	14:07
19	CCB3		NA	NA	1	Water	0.000	-0.166	02/28/2025	14:08

WORKLIST(Hardcopy Internal Chain)

WorkList Name : COD-02282025

WorkList ID: 187971

Department: Wet-Chemistry

Date: 02-28-2025 08:43:07

Conc H2SO4 to pH < 2 PSEG04
PSEG03
Conc H2SO4 to pH < 2 AMER08
IRIS02
1
Conc HZSO4 to pH < 2 TRIS02
Conc H2SO4 to pH < 2 AMEROS
The state of the s
Customer

Date/Time 0.2 · 28 · 20
Raw Sample Received by:
Raw Sample Relinquished by: 2025, 025, 09:00 NF(wc)

Page 1 of 1

Raw Sample Received by: 100 (2000)

Raw Sample Relinquished by: NF(1) 12:00

NF(WC)



Instrument ID: DO METER

Review By	rub	ina	Review On	3/6/2025 11:41:53 AM
Supervise By	lwo	ona	Supervise On	3/6/2025 11:42:59 AM
SubDirectory	LB	134820	Test	BOD_7
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		WP112062,W3149,WP1	110386,W3103,W3109,W3105,WP1120	64,WP112063,WP111323

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	LB134820BL	LB134820BL	МВ	02/26/25 17:20		rubina	ок
2	LB134820BS	LB134820BS	LCS	02/26/25 17:20		rubina	ОК
3	LB134820BSD1	LB134820BSD1	LCS	02/26/25 17:20		rubina	ОК
4	LB134820BSD2	LB134820BSD2	LCS	02/26/25 17:20		rubina	ОК
5	Q1424-05	BOD	SAM	02/26/25 17:20		rubina	ок
6	Q1424-05DUP	BODDUP	DUP	02/26/25 17:20		rubina	ОК
7	Q1432-05	BOD	SAM	02/26/25 17:20		rubina	ок



Instrument ID: WC SC-3

Review By	jign	iesh	Review On	2/27/2025 3:04:45 PM
Supervise By	lwo	ona	Supervise On	2/27/2025 4:56:21 PM
SubDirectory	LB	134829	Test	Non-Polar Material
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		W3177,M6069,EP2590,	WP110826,W3079,NA,WP100827,WP	100828,NA

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	LB134829BL	LB134829BL	MB	02/27/25 10:25		jignesh	ОК
2	LB134829BS	LB134829BS	LCS	02/27/25 10:25		jignesh	ОК
3	Q1424-01	NON POLAR MATER	SAM	02/27/25 10:25		jignesh	ОК
4	Q1424-02	NON POLAR MATER	SAM	02/27/25 10:25		jignesh	ОК
5	Q1424-03	NON POLAR MATER	SAM	02/27/25 10:25		jignesh	ОК
6	Q1424-04	NON POLAR MATER	SAM	02/27/25 10:25		jignesh	ОК
7	Q1429-01	OUTFALL-DSN-001	SAM	02/27/25 10:25		jignesh	ОК
8	Q1429-02	OUTFALL-DSN-002	SAM	02/27/25 10:25		jignesh	ОК
9	Q1432-01	NON POLAR MATER	SAM	02/27/25 10:25		jignesh	ОК
10	Q1432-02	NON POLAR MATER	SAM	02/27/25 10:25		jignesh	ОК
11	Q1432-03	NON POLAR MATER	SAM	02/27/25 10:25		jignesh	ОК
12	Q1432-04	NON POLAR MATER	SAM	02/27/25 10:25		jignesh	ОК



Instrument ID: SPECTROPHOTOMETER-2

Review By	Nih	ıa	Review On	2/28/2025 2:27:42 PM
Supervise By	lwc	ona	Supervise On	2/28/2025 2:31:32 PM
SubDirectory	LB	134856	Test	COD
STD. NAME		STD REF.#		
ICAL Standard	ICAL Standard N/A			
ICV Standard	tandard N/A			
CCV Standard	V Standard N/A			
ICSA Standard N/A				
CRI Standard		N/A		
LCS Standard		N/A		
Chk Standard		WP111522,WP111519,V	WP111517,WP111520,WP111518,WP11	1516,W3126,WP112005,WP112004

Sr#	Sampleld	ClientID	QcType	Date	Comment	Operator	Status
1	CAL1	CAL1	CAL	01/22/25 13:30		Niha	ОК
2	CAL2	CAL2	CAL	01/22/25 13:30		Niha	ОК
3	CAL3	CAL3	CAL	01/22/25 13:31		Niha	ок
4	CAL4	CAL4	CAL	01/22/25 13:31		Niha	ок
5	CAL5	CAL5	CAL	01/22/25 13:32		Niha	ок
6	ICV	ICV	ICV	01/22/25 13:32		Niha	ок
7	ICB	ICB	ICB	01/22/25 13:33		Niha	ок
8	CCV1	CCV1	CCV	02/28/25 14:00		Niha	ок
9	CCB1	CCB1	ССВ	02/28/25 14:00		Niha	ок
10	LB134856BL	LB134856BL	МВ	02/28/25 14:01		Niha	ок
11	LB134856BS	LB134856BS	LCS	02/28/25 14:01		Niha	ок
12	Q1424-06	COD	SAM	02/28/25 14:02		Niha	ок
13	Q1429-01	OUTFALL-DSN-001	SAM	02/28/25 14:02		Niha	ок
14	Q1429-02	OUTFALL-DSN-002	SAM	02/28/25 14:03		Niha	ок
15	Q1432-06	COD	SAM	02/28/25 14:03		Niha	ок
16	Q1435-01	286107	SAM	02/28/25 14:04		Niha	ок
17	Q1439-01	LRSA-MOD	SAM	02/28/25 14:04		Niha	ок
18	Q1439-01DUP	LRSA-MODDUP	DUP	02/28/25 14:05		Niha	ОК



Instrument ID: SPECTROPHOTOMETER-2

Review By	Niha		Review On	2/28/2025 2:27:42 PM				
Supervise By	Iwona		Supervise On	2/28/2025 2:31:32 PM				
SubDirectory	LB134856		Test	COD				
STD. NAME STD REF.#								
ICAL Standard	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		WP111522,WP111519,WP111517,WP111520,WP111518,WP111516,W3126,WP112005,WP112004						

19	Q1439-01MS	LRSA-MODMS	MS	02/28/25 14:05	0.5ml WP112002 + 9.5ml Sample	Niha	OK
20	CCV2	CCV2	ccv	02/28/25 14:06		Niha	ок
21	CCB2	CCB2	ССВ	02/28/25 14:06		Niha	ОК
22	Q1439-01MSD	LRSA-MODMSD	MSD	02/28/25 14:07	0.5ml WP112002 + 9.5ml Sample	Niha	OK
23	CCV3	CCV3	CCV	02/28/25 14:07		Niha	ок
24	CCB3	CCB3	ССВ	02/28/25 14:08		Niha	ОК



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

8900, Fax: 908 789 8922

Prep Standard - Chemical Standard Summary

Order ID: Q1432	2

Test: BOD_7,COD,Non-Polar Material

Prepbatch ID:

Sequence ID/Qc Batch ID: LB134820,LB134829,LB134856,

				_	
Sta	nd	25	ฝ	п	

EP2590,WP100827,WP100828,WP110386,WP110826,WP111323,WP111514,WP111515,WP111516,WP111517,WP111518,WP111519,WP111520,WP111522,WP112002,WP112003,WP112004,WP112005,WP112062,WP112063,WP112064,WP99896.

Chemical ID:

E3551, M5673, M6069, M6121, W2606, W2653, W2654, W2783, W2784, W2845, W2898, W2979, W3059, W3079, W3103, W3105, W3109, W3112, W3113, W3126, W3144, W3149, W3169, 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	
	(EX-5U-2)								

FROM 4000.0000gram of	E3551 = Final Quantity: 4000.000	gram
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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



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Wet Chemistry STANDARD PREPARATION LOG

Recipe ID	NAME	<u>NO.</u>	Prep Date	Expiration Date	Prepared By	<u>ScaleID</u>	<u>PipetteID</u>	Supervised By Sohil Jodhani
3456	Cyanide Intermediate Working Std, 5PPM	WP100828	02/02/2023	02/03/2023	lwona Zarych	None	WETCHEM_F IPETTE_3	
FROM	0.25000ml of W2898 + 49.75000ml of	of WP99896	= Final Quar	ntity: 50 000 m	1		(VVC)	

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



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Wet Chemistry STANDARD PREPARATION LOG

Recipe ID	<u>NAME</u>	<u>NO.</u>	Prep Date	Expiration Date	Prepared By	<u>ScaleID</u>	<u>PipettelD</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
2456	COD Stock std, 1000ppm	<u>WP111514</u>	01/22/2025	01/29/2025	Niha Farheen Shaik	WETCHEM_S CALE_5 (WC		01/22/2025
	0.00500	<u> </u>	. =:			SC-5)		

FROM 0.08500gram of W3169 + 100.00000ml of W3112 = Final Quantity: 100.000 ml

Recipe				Expiration	<u>Prepared</u>			Supervised By
<u>ID</u>	<u>NAME</u>	NO.	Prep Date	<u>Date</u>	<u>By</u>	<u>ScaleID</u>	<u>PipetteID</u>	Iwona Zarych
2457	COD Stock std-SS, 1000ppm	WP111515	01/22/2025	01/29/2025	Niha Farheen	WETCHEM_S	None	
					Shaik	CALE_5 (WC		01/22/2025

FROM 0.08500gram of W2784 + 100.00000ml of W3112 = Final Quantity: 100.000 ml



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Wet Chemistry STANDARD PREPARATION LOG

139 COD calibration std. 0 ppm WP111516 01/22/2025 01/29/2025 Niha Farheen Shaik None None 01/22/2025	Recip ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	<u>ScaleID</u>	<u>PipetteID</u>	Supervised By Iwona Zarych
	139	COD calibration std. 0 ppm	WP111516	01/22/2025	01/29/2025		None	None	,

FROM 10.00000ml of W3112 = Final Quantity: 10.000 ml

Recipe				Expiration	Prepared			Supervised By
<u>ID</u>	<u>NAME</u>	<u>NO.</u>	Prep Date	<u>Date</u>	<u>By</u>	<u>ScaleID</u>	<u>PipetteID</u>	lwona Zarych
138	COD calibration std. 10 ppm	WP111517	01/22/2025	01/29/2025	Niha Farheen	None	WETCHEM_F	
					Shaik		IPETTE_3	01/22/2025

FROM 9.90000ml of W3112 + 0.10000ml of WP111514 = Final Quantity: 10.000 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
137	COD calibration std. 50 ppm	<u>WP111518</u>	01/22/2025	01/29/2025	Niha Farheen Shaik	None	WETCHEM_F IPETTE_3	01/22/2025
	0.50000ml of W2442 + 0.50000ml of	MD444544	- Final Over	titu 10 000			(WC)	

FROM	9.50000mi of W3112 + 0.50000mi of WP111514 = Final Quantity: 10.000 mi

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
136	COD calibration std. 100 ppm	WP111519	01/22/2025	01/29/2025	Niha Farheen	None	WETCHEM_F	
					Shaik		IPETTE_3	01/22/2025

FROM 9.00000ml of W3112 + 1.00000ml of WP111514 = Final Quantity: 10.000 ml



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Wet Chemistry STANDARD PREPARATION LOG

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
135	COD calibration std. 150 ppm	WP111520	01/22/2025	01/29/2025	Niha Farheen	None	WETCHEM_F	
					Shaik		IPETTE_3	01/22/2025
							(WC)	

FROM 8	.50000ml of W3112 +	1.50000ml of WP111514	= Final Quantity: 10.000 ml
--------	---------------------	-----------------------	-----------------------------

Recipe				Expiration	Prepared			Supervised By
<u>ID</u>	<u>NAME</u>	<u>NO.</u>	Prep Date	<u>Date</u>	<u>By</u>	<u>ScaleID</u>	<u>PipetteID</u>	Iwona Zarych
2459	COD ICV-LCS std, 50ppm	WP111522	01/22/2025	01/29/2025	Niha Farheen	None	WETCHEM_F	•
					Shaik		IPETTE_3	01/22/2025

FROM 9.50000ml of W3112 + 0.50000ml of WP111515 = Final Quantity: 10.000 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
2456	COD Stock std, 1000ppm	WP112002	02/21/2025	02/28/2025	Niha Farheen	WETCHEM_S		
					Shaik	CALE_5 (WC		02/21/2025
	0.00500 of W2460 + 400 00000		O - Final Our		I	SC-5)		

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
2457			02/21/2025	· 		WETCHEM_S		Iwona Zarych
					Shaik	CALE_5 (WC		02/21/2025

FROM 0.08500gram of W2784 + 100.00000ml of W3112 = Final Quantity: 100.000 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>PipettelD</u>	Supervised By Iwona Zarych
2458	COD CCV std, 50ppm	WP112004	02/21/2025	02/28/2025	Niha Farheen Shaik	None	WETCHEM_F IPETTE_3	02/21/2025
50014	0 50000ml of W2412 + 0 50000ml of	MD112002	- Final Ouan	otitu: 10 000 ml			(WC)	

<u>FROM</u>	9.50000ml of W3112 + 0.50000ml of WP112002 = Final Quantity: 10.000 ml

Recipe				Expiration	Prepared			Supervised By
<u>ID</u>	NAME	<u>NO.</u>	Prep Date	<u>Date</u>	<u>By</u>	<u>ScaleID</u>	<u>PipetteID</u>	Iwona Zarych
2459	COD ICV-LCS std, 50ppm	WP112005	02/21/2025	02/28/2025	Niha Farheen	None	WETCHEM_F	
					Shaik		IPETTE_3	02/21/2025
							(WC)	

FROM 9.50000ml of W3112 + 0.50000ml of WP112003 = Final Quantity: 10.000 ml



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Wet Chemistry STANDARD PREPARATION LOG

Recipe ID	NAME	<u>NO.</u>	Prep Date	Expiration Date	Prepared By	<u>ScaleID</u>	<u>PipetteID</u>	Supervised By Iwona Zarych
127	BOD Dilution fluid	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 Zarvch
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

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.	P243-500 / Potassium Hydrogen Phthalate, 500 gms	201089	06/30/2025	12/23/2020 / apatel	12/16/2020 / apatel	W2784
Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific	PC19510-7 / Sodium	21C2456604	01/31/2024	03/30/2022 /	06/24/2021 /	W2845
Supply, Inc.	Hydroxide Pellets 12 Kg			JIGNESH	apatel	VV20 4 3
Supply, Inc. Supplier	Hydroxide Pellets 12 Kg ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	apatel Received Date / Received By	Chemtech Lot #
		Lot # HC03107133	1 -	Date Opened /	Received Date /	Chemtech
Supplier	ItemCode / ItemName 90157 / Cyanide Standard,		Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #



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 #



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 #
Environmental Express LTD	B1010 / COD Digestion Vials Low Level 0-150Mg/L	13798	09/30/2027	02/17/2025 / Niha	07/25/2024 / Iwona	W3126
Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
HACH	1486266 / BOD Nutrient Buffer Pillows, 6 mL concentrate to make 6 L, 50/pk	A4169	06/30/2029	11/20/2024 / rubina	10/01/2024 / Iwona	W3144
Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	AL70850-8 / Starch Solution, 4L	4408P62	08/31/2026	10/16/2024 / Iwona	10/16/2024 / Iwona	W3149
Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date /	Chemtech Lot #
PCI Scientific Supply, Inc.	P243-500 / Potassium Hydrogen Phthalate, 500 gms	24H0956262	04/28/2026	01/03/2025 / Iwona	01/03/2025 / Iwona	W3169
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

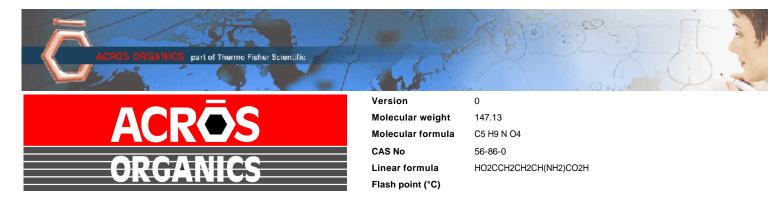
Test	Specification	Result
Assay ((CH ₃) ₂ CO) (by GC, corrected for water)	>= 99.4 %	99.7
Color (APHA)	<= 10	5
Residue after Evaporation	<= 1.0000 ppm	0.1000
Substances Reducing Permanganate	Passes Test	PT
Titrable Acid (µeq/g)	<= 0.3	0.1
Titrable Base (µeq/g)	<= 0.6	< 0.1
Water (H₂O)	<= 0.5 %	0.3
FID–Sensitive 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	L(+)-Glutamic acid,99%						
Country of Origin	CHINA	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





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



Certificate of Analysis

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

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

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Catalog Number	P243	Quality Test / Release Date	06/19/2020
Lot Number	201089	•	
Description	POTASSIUM HYDROGEN PHTHALATE	ACIDIMETRIC STANDARD, A.C.S	S.
Country of Origin	Spain	Suggested Retest Date	Jun/2025
Chemical Origin	Organic - non animal		
BSE/TSE Comment	No animal products are used as starting raw material ingredients, or used in processing, including lubricants, processing aids, or any other material that might migrate to the finished product.		

N/A			
Result Name	Units	Specifications	Test Value
APPEARANCE		REPORT	WHITE CRYSTALS
ASSAY POTASSIUM HYDROGEN PHTHALATE	%	Inclusive Between 99.95 - 100.05	100.03
CHLORINE COMPOUNDS	%	<= 0.003	<0.003
HEAVY METALS (as Pb)	ppm	<= 5	<5
IDENTIFICATION	PASS/FAIL	= PASS TEST	PASS TEST
INSOLUBLE MATTER	%	<= 0.005	<0.005
IRON (Fe)	ppm	<= 5	<5
PH OF 0.05M SOLUTION		Inclusive Between 4.00 - 4.02	4.00
SODIUM (Na)	%	<= 0.005	<0.005
SULFUR COMPOUNDS	%	<= 0.002	<0.002%
TRACEABLE TO NIST	SOD CARBONATE	= LOT 351a	351a
TRACEABLE TO NIST KHP STD	POT. ACID PHTHALATE	= LOT 84L	84L

Julian Burton

Julian Burton - Quality Control Manager - Fair Lawn

^{*}Based on suggested storage condition.



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

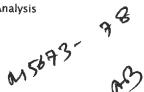
RE-02-01, Del

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



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

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

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

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

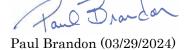
Specification	Reference	
Standard Sodium Thiosulfate Solution, 0.0250 N	APHA (4500-S2- F)	
Standard Sodium Thiosulfate Titrant	APHA (4500-O D)	
Standard Sodium Thiosulfate Titrant	APHA (4500-O E)	
Standard Sodium Thiosulfate Titrant	APHA (4500-O F)	
Standard Sodium Thiosulfate Titrant, 0.025 N	APHA (4500-Cl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

· fee. 7/25/24 N 3123 EXP. 9/30/27 W 3125 W3126

ENVIRONMENTAL EXPRESS Charleston, SC USA www.envexp.com (800) 343-5319

October 20, 2022

CERTIFICATE OF ANALYSIS

Environmental Express certifies that the following COD Reagent Vials have been rigorously checked against NIST Traceable standards and also compared for conformance to another major brand name product. Environmental Express COD Vial performance is evaluated using bench top spectrophotometers. Acceptance guidelines are strict and ensure dependable,

Environmental Express further certifies that the COD products listed below are recognized by the United States Environmental Protection Agency (USEPA) as equivalent to an approved Water Pollutant Testing Procedure for COD (Federal Register, Vol. 45, No. 78, Monday, April 20th, 1980, page 26811) and as such can be used for National Pollution Discharge Elimination System (NPDES) reporting.

Cat. No.	Lot No.	Product Description
B1010	13798	COD Reagent Vials, 0 - 150 ppm



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

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

customerservice@riccachemical.com

Certificate of Analysis

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

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

Expiration Date: AUG 2026

This product is Mercury-free.

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

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

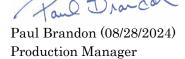
Specification	Reference
Starch Solution	APHA (4500-S2- F)
Starch Indicator Solution	APHA (4500-C1 B)
Starch Indicator	APHA (4500-SO32- B)
Starch indicator solution	APHA (2350 B)
Starch indicator solution	APHA (2350 E)
Starch Solution	APHA (510 B)
Starch Solution	APHA (5530 C)
Starch Indicator	APHA (4500-C1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



Certificate of Analysis

BDH9260-500G

BDH POTASS HYDRGN PHTHLTE 500G

ACS GRADE

 Batch
 24H0956262

 Reassay Date
 04/28/2026

 CAS Number
 877-24-7

Molecular Formula HOOCC6H4COOK

Molecular Mass 204.22

Date of Manufacture 04/29/2023

Storage Room Temperature

Characteristics	Specifications	Measured Values	
Appearance	White crystals.	White crystals.	
Assay (dried basis)	99.95 - 100.05 %	99.98 %	
Chlorine Compounds	<= 0.003 %	<0.003 %	
Heavy Metals (as Pb)	<= 5 ppm	<5 ppm	
Insoluble Matter	<= 0.005 %	0.003 %	
Iron	<= 5 ppm	<5 ppm	
pH (0.05M, Water) @25C	4.00 - 4.02	4.00	
Sodium	<= 0.005 %	<0.005 %	
Sulfur Compounds	<= 0.002 %	<0.002 %	

Internal ID #: 322

Material

Grade

Material Description

Signature

Additional Information

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

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

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

28600 Fountain Parkway, Solon OH 44139 USA

Analysis may have been rounded to significant digits in specification limits

Product meets analytical specifications of the grades listed.

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

Date Printed: 08/09/2024

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

QUOTE NO.

coc Number 2046182

		FINFORMATION		CLIENT PROJECT INFORMATION							- 463			CLIEN	IT BILLI	NG INFO	ORMATION			
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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