

#### DATA REPORTING QUALIFIERS- INORGANIC

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

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



#### LAB CHRONICLE

OrderID: Q3007

Client: Aramark Uniforms

Contact: Jarrod Mills

**OrderDate:** 9/3/2025 10:20:00 AM

Project: Monthly 2025

Location: J42

LabID	ClientID	Matrix	Test	Method Sample Date	Prep Date	Anal Date	Received
Q3007-01	Grab	WATER		09/03/25			09/03/25
			TPH	<b>10:10</b> 1664A		09/05/25 09:47	
Q3007-02	Comp	WATER		09/03/25		03.47	09/03/25
			2025	10:12		00/05/05	
			BOD5	SM5210 B		09/05/25 09:50	
			TSS	SM2540 D		09/08/25	
						14:00	



## SAMPLE DATA



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

Fax: 908 789 8922

#### **Report of Analysis**

Client: Aramark Uniforms Date Collected: 09/03/25 10:10 Project: Date Received: Monthly 2025 09/03/25 Client Sample ID: SDG No.: Q3007 Grab Q3007-01 Lab Sample ID: Matrix: WATER % Solid: 0

Parameter	Conc. Qua.	DF MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
TPH	15.6	1 0.29	5.00	mg/L		09/05/25 09:47	7 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: 09/03/25 10:12 Project: Monthly 2025 Date Received: 09/03/25 Client Sample ID: SDG No.: Q3007 Comp Q3007-02 Lab Sample ID: Matrix: WATER % Solid: 0

Parameter	Conc. Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
BOD5	846	1	0.20	2.00	mg/L		09/05/25 09:50	SM 5210 B-16
TSS	228	1	1.00	4.00	mg/L		09/08/25 14:00	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.: Q3007

**Project:** Monthly 2025

Analyte	Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID:	LB137082BL mg/L	< 2.5000	2.5000	Ū	0.29	5.0	09/05/2025
Sample ID: BOD5	LB137092BL mg/L	< 0.2000	0.2000	Ū	0.20	2.0	09/05/2025
Sample ID:	LB137104BL mg/L	1	2.0000	J	1	4	09/08/2025



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Fax: 908 789 8922

#### **Duplicate Sample Summary**

Client: Aramark Uniforms SDG No.: Q3007

**Project:** Monthly 2025 Sample ID: LB137082BS

Client ID: LB137082BSD 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		09/05/2025	



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Fax: 908 789 8922

#### **Duplicate Sample Summary**

Client: Aramark Uniforms SDG No.: Q3007

**Project:** Monthly 2025 Sample ID: Q3007-02

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	846		827		1	2.23		09/05/2025
TSS	mg/L	+/-5	228		226		1	0.88		09/08/2025





#### **Laboratory Control Sample Summary**

Client: Aramark Uniforms SDG No.: Q3007

Analyte		Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID	LB137082BS								
TPH		mg/L	20.0	17.0		85	1	78-114	09/05/2025





#### **Laboratory Control Sample Summary**

Client: Aramark Uniforms SDG No.: Q3007

Analyte		Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID	LB137082BSD								
TPH		mg/L	20.0	17.2		86	1	78-114	09/05/2025



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

Fax: 908 789 8922

#### **Laboratory Control Sample Summary**

Client: Aramark Uniforms SDG No.: Q3007

Analyte		Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID	LB137092BS								
BOD5		mg/L	198	201		102	1	84.6-115.4	09/05/2025





#### **Laboratory Control Sample Summary**

Client: Aramark Uniforms SDG No.: Q3007

Analyte		Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID	LB137104BS								
TSS		mg/L	550	531		96	1	90-110	09/08/2025



### RAW DATA



#### Extraction and Analytical Summary Report

Analysis Method: 1664A

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

Run Number: LB137082

**Analysis Date:** 09/05/2025

BalanceID: WC SC-5

OvenID: EXT OVEN-3

ANALYST: JIGNESH

REVIEWED BY: Iwona

Extraction Date: 09/05/2025

Extration IN Time: 08:20

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

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

Dish #	Lab ID	Client ID	Matrix	рН	Sample Vol (ml)	Final Volume (ml)	Empty Dish Weight (g)	Final Empty Dish Weight(g)	Silica Gel Weight(g)	Weight After Drying(g)	Final Weight After Drying(g)	Change Weight (g)	Result in ppm
1	LB137082BL	LB137082BL	WATER	1.3	1000	100	2.9102	2.9102	3.01	2.9103	2.9103	0.0001	0.1
2	LB137082BS	LB137082BS	WATER	1.3	1000	100	3.0705	3.0705	3.02	3.0875	3.0875	0.0170	17
3	LB137082BSD	LB137082BSD	WATER	1.3	1000	100	2.8566	2.8566	3.03	2.8738	2.8738	0.0172	17.2
4	Q3007-01	Grab	WATER	1.6	1000	100	3.0688	3.0688	3.05	3.0844	3.0844	0.0156	15.6
5	Q3010-01	402	WATER	1.3	1000	100	3.0792	3.0792	3.02	3.0799	3.0799	0.0007	0.7
6	Q3022-01	1413	WATER	1.6	1000	100	3.0660	3.0660	3.04	3.0761	3.0761	0.0101	10.1



QC Batch# LB137082

Test: TPH

**Analysis Date:** 09/05/2025

#### Chemicals Used:

Chemical Name	Chemical Lot #				
HEXANE	W3204				
pH Paper 0-14	м6069				
Sodium Sulfate	EP2636				
1:1 HCL	WP112782				
Silica Gel	w3079				
Sand	NA				

#### Standards Used:

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

#### BALANCE CALIBRATION / OVEN Dessicator Data

#### Analytical Balance ID # : WC SC-6

#### Before Analysis

0.0020 gram Balance: 0.0019 (0.0018-0.0022) In OVEN TEMP1: 70 °C Dessicator Time In1: 10:31

1.0000 gram Balance: 1.0004 (0.9950-1.0050) In Time1: 09:47

Out OVEN TEMP1: 70 °C 08:30 Bal Check Time: Dessicator Time Out1: 11:00

> 10:30 Out Time1:

#### After Analysis

In OVEN TEMP2 : 71 °C Dessicator Time In2 : 12:110.0020 gram Balance: 0.0018 (0.0018-0.0022)

11:35 In Time2: 1.0000 gram Balance: 1.0005 (0.9950-1.0050)

Out OVEN TEMP2: 71 °C Dessicator Time Out2: 12:50 12:55 Bal Check Time:

> 12:10 Out Time2:

Reviewed By:Iwona On:9/5/2025 11:20:41 AM Inst Id :WC SC-3 LB :LB137082

WORKLIST(Hardcopy Internal Chain)

Department: Wet-Chemistry

WorkList ID: 191684

WorkList Name: tph q3007

N3 134082

					or chemistry	Lai	Date: 09-05-2025 07:51:16	5 07:51:16
Sample	Customer Sample	Matrix Test		Preservative	Customer	Raw Sample Storage Location	Collect Date Method	Method
03007 04								
G2007-01	Grab	Water	ТРН	Conc H2SO4 to pH < 2 APAM04	2 ADAMO1	2.7		
C3010-01 B 102	400				1 DIMINATE 7	J42	09/03/2025 1664A	1664A
11 10 10 10 10 10 10 10 10 10 10 10 10 1	404	Water	ТРН	Conc H2SO4 to pH < 2	2 PSEG04	D31	00/03/20/26	4004
03022-01	1413	10/4					03/03/50/50	1004A
		water	IPH	Conc H2SO4 to pH < 2	2 PSEG03	D31	09/04/2025 1664A	1664
							02041F0100	てするこ

Date/Time  $09|05|\lambda 5$ 

Date/Time 09105/AS 08,10

Raw Sample Relinquished by:

Raw Sample Received by:

Raw Sample Received by:

Raw Sample Relinquished by:

Page 1 of 1

Alliance

**QC BATCH ID:** LB137092

Sulfuric acid, 1N: WP112832

Chlorine Strips: W3155

pH Strips: W3215

BOD Water: WP114623

Starch: W3149

POLYSEED: WP112625

**GGA:** WP112624

BOD5 LOG

ANALYST: rubir nst ld:DO METER

Reviewed By:lwona On:9/11/2025 10:03:12

SUPERVISOR: Iwona

**Analysis Date:** 09/05/2025

MANGANOUS SULFATE SOLUTION: W3103

Alkaline Iodide Azide: W3109

Sodium Thiosulfate, 0.025N: W3105

NaOH, 1N: WP113878

IncubatorID: INCUBATOR #3

**GuageID:** 0511064

Zero DO: WP114418

Lab SampleID	Client ID	Bottle No.	VOL.	Initial Reading(ML)	Final Reading(ML)	Difference	Average
WINKLER 1	WINKLER 1	1	300	0.0	10.1	10.1	10.1
WINKLER 2	WINKLER 2	2	300	10.3	20.4	10.1	10.1

Meter Calibration1: 9.14 Zero DO Reading1: 0.15 mg/L (<=0.2 Criteria)

Barometric Pressure1: 755 mmHg DO Meter BOD fluid reading for winkler comparison: 10.28

After Incubation

Meter Calibration2: 8.57 Zero DO Reading2: 0.14 mg/L (<=0.2 Criteria)

Barometric Pressure2: 765 mmHg



**QC BATCH ID:** LB137092

INCUBATOR TEMP IN(C): 20.2

**TIME IN:** 09:50

**DATE IN:** 09/05/2025

INCUBATOR TEMP OUT (C): 20.0

\_\_\_\_

**TIME OUT:** 09:00

**DATE OUT:** 09/10/2025

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
LB137092BL	1	No	6.65	N/A	20.90	300	10.27	10.26	0.01	0.01	0.01	
POLYSEED	1					10	10.25	7.23	3.02	0.6	0.65	
POLYSEED	2					15	10.20	5.11	5.09	0.68		
POLYSEED	3					20	10.13	3.48	6.65	0.67		
GGA	1					6	10.21	5.63	4.58	196.5	201.33	
GGA	2					6	10.17	5.48	4.69	202		
GGA	3					6	10.17	5.41	4.76	205.5		
Q3007-02	1	No	9.30	7.33	20.10	5	10.21	7.66	2.55	1140	845.5	pH Adjuste
Q3007-02	2					10	10.15	7.26	2.89	672		
Q3007-02	3					20	10.09	4.10	5.99	801		
Q3007-02	4					30	10.04	1.70	8.34	769		
Q3007-02DUP	1	No	9.30	7.33	20.10	5	10.20	7.76	2.44	1074	826.88	pH Adjuste
Q3007-02DUP	2					10	10.16	7.18	2.98	699		
Q3007-02DUP	3					20	10.08	4.28	5.8	772.5		
Q3007-02DUP	4					30	10.04	1.77	8.27	762		
Q3020-01	1	No	8.80	7.01	20.00	5	10.21	8.26	-	0	51.05	pH Adjuste
Q3020-01	2					20	10.15	5.65	4.5	57.75		
Q3020-01	3					50	10.06	2.02	8.04	44.34		
Q3020-01	4					150	9.58	0.96	-	0		
Q3022-01	1	No	7.45	N/A	20.00	5	10.22	8.36	-	0	51.24	
Q3022-01	2					20	10.15	5.6	4.55	58.5		
Q3022-01	3					50	10.00	2.02	7.98	43.98		
Q3022-01	4					150	8.04	0.59	-	0		
Q3025-01	1	No	7.00	N/A	20.00	5	10.24	8.51	-	0	17.42	
Q3025-01	2					20	10.22	8.28	-	0		
Q3025-01	3					50	10.18	6.28	3.9	19.5		
Q3025-01	4					150	10.17	1.85	8.32	15.34		
Q3025-03	1	No	6.92	N/A	20.00	5	10.23	8.26	-	0	17.47	
Q3025-03	2					20	10.20	8.15	2.05	21		
Q3025-03	3					50	10.18	6.91	3.27	15.72		
Q3025-03	4					150	10.12	1.62	8.5	15.7		
Q3025-05	1	No	6.79	N/A	20.00	5	10.21	8.24	-	0	18.76	
Q3025-05	2					20	10.18	8.60	-	0		
Q3025-05	3					50	10.15	5.93	4.22	21.42		
Q3025-05	4					150	10.11	1.41	8.7	16.1		
Q3028-01	1	No	8.38	7.29	20.20	1	10.20	7.28	2.92	68100	36870	pH Adjuste
Q3028-01	2					5	10.15	5.31	4.84	25140		
Q3028-01	3					10	10.09	3.65	6.44	17370		
Q3028-01	4					50	10.04	0.77	-	0		
Q3028-01	5					100	9.84	0.45	-	0		
Q3028-05	1	No	4.63	7.19	20.20	1	10.22	6.18	4.04	101700	48560	pH Adjuste

Reviewed By:Iwona On:9/11/2025 10:03:12 AM Q3028-05 5 10.13 5.29 25140 4.84 Inst Id :DO METER 3 10 Q3028-05 10.05 3.12 6.93 18840 LB :LB137092 Q3028-05 50 4 10.00 0.34 Q3028-05 5 100 9.68 0.12

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.

QA Control Code: A2040063 Page 3 of 3 SOP ID: MSMS210B-BOD/CBOD

Reviewed By:Iwona On:9/11/2025 10:03:12 AM Inst Id :DO METER

WORKLIST(Hardcopy Internal Chain)

WorkList ID: 191678

BOD5-09-04

WorkList Name:

Department: Wet-Chemistry

22

16137092

				ceparament:	wet-cnemistry		Date: 09-(	09-04-2025 16:41:19	1:19
Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location		Collect Date Method	r p
03007-02	, m								
	dipo	Water	BOD5	Cool 4 deg C	ARAM01	270			
Q3020-01	WATER-TREATMEN DISCHAR	Water	אַנוסאַ			242	09/03/2	US/US/2025 SM5210 B	10 B
03000				Cool 4 deg C	VERI01	J11	09/04/2	09/04/2025 SM5210 B	40.0
43022-01	1413	Water	BOD5	Cool 4 dog C			711.000	SCINIO STATE	
03025-01	CONSO			Offin 4 noo	PSEG03	D31	09/04/2025	025 SM5210 B	10 B
	CONOCC	Water	BODS	0001					
Q3025-03	DSNOO4			O fight troop	PSEG04	D31	09/04/2	09/04/2025 SM5210 B	10 B
	100100	Water	BOD5	Cool 4 dea C	1000				
Q3025-05	DSN003	Motor	1 200		PSEG04	D31	09/04/2	09/04/2025 SM5210 B	10 B
		valer	BODS	Cool 4 deg C	PSEG04	D34	0000	100	
G3028-01	EFFLUENT	Water	BODs				03/04/2023	UZD SIM5Z10 B	10 B
03000 05				Cool 4 deg C	HOLL01	J12	09/04/2	09/04/2025 SM5240 B	9 0
CO-070CD	INFLUEN	Water	BOD5	Cool 4 dea C	2 201			7010	
				S Res	HOLLUI	212	09/04/2	09/04/2025 SM5210 B	0 B

Date/Time 09/05/12025 Raw Sample Received by:

Raw Sample Received by: Raw Sample Relinquished by:

Page 1 of 1

09/05/2025

Date/Time

Raw Sample Received by:
Raw Sample Relinquished by:



TEMP1 IN:

TEMP2 IN:

TEMP3 IN:

104 °C 09/08/2025 08:00 TEMP1 OUT:

104 °C 09/08/2025 09:30 TEMP2 OUT:

104 °C 09/08/2025 14:00 TEMP3 OUT:

#### TOTAL SUSPENDED SOLIDS - SM2540D

**SUPERVISOR:** Iwona

ANALYST: JIGNESH

**Date:** 09/08/2025

Run Number: LB137104

BalanceID: WC SC-5

OvenID: WC OVEN-1

**FilterID:** 17416528

104 °C 09/08/2025 16:00 TEMP4 OUT: 103 °c 09/08/2025 17:30 TEMP4 IN: ThermometerID: WET OVEN#1

103 °C 09/08/2025 09:00

103 °C 09/08/2025 10:30

103 °C 09/08/2025 15:30

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	LB137104BL	LB137104BL	1.3526	1.3526	100	1.3527	1.3527	1.3527	0.0001	1
2	LB137104BS	LB137104BS	1.5987	1.5988	100	1.6519	1.6519	1.6519	0.0531	531
3	Q3007-02	Comp	1.4811	1.4812	100	1.5039	1.5040	1.5040	0.0228	228
4	Q3007-02DUP	CompDUP	1.4921	1.4921	100	1.5147	1.5147	1.5147	0.0226	226
5	Q3020-01	WATER-TREATMENT DISCHARGE	1.4874	1.4874	1000	1.5036	1.5036	1.5036	0.0162	16.2
6	Q3022-01	1413	1.4931	1.4931	1000	1.5647	1.5647	1.5647	0.0716	71.6
7	Q3024-01	TOWERS-1	1.4896	1.4897	3000	1.4998	1.4999	1.4999	0.0102	3.4
8	Q3024-02	TOWERS-2	1.4795	1.4797	2000	1.4896	1.4897	1.4897	0.0100	5
9	Q3025-01	DSN002	1.5008	1.5008	1000	1.5216	1.5216	1.5216	0.0208	20.8
10	Q3025-03	DSN001	1.4890	1.4890	2000	1.5080	1.5080	1.5080	0.0190	9.5
11	Q3025-05	DSN003	1.4733	1.4733	2000	1.4818	1.4819	1.4819	0.0086	4.3
12	Q3028-01	EFFLUENT	1.4750	1.4751	25	1.5820	1.5821	1.5821	0.1070	4280
13	Q3028-04	AERATION	1.4941	1.4942	25	1.5943	1.5943	1.5943	0.1001	4004
14	Q3041-01	001 Willets Pt Blvd (Sep))	1.4782	1.4783	400	1.5214	1.5214	1.5214	0.0431	107.8
15	Q3041-04	002 35th Ave(sep)	1.4755	1.4755	1000	1.5213	1.5213	1.5213	0.0458	45.8



#### TOTAL SUSPENDED SOLIDS - SM2540D

SUPERVISOR: Iwona

**ANALYST:** JIGNESH

**Date:** 09/08/2025

Run Number: LB137104

104 °C 09/08/2025 08:00 TEMP1 OUT: 103 °c 09/08/2025 09:00 TEMP1 IN: BalanceID: WC SC-5 104 °C 09/08/2025 09:30 TEMP2 OUT: 103 °C 09/08/2025 10:30 TEMP2 IN: OvenID: WC OVEN-1 104 °C 09/08/2025 14:00 TEMP3 OUT: 103 °C 09/08/2025 15:30 TEMP3 IN: **FilterID:** 17416528 104 °C 09/08/2025 16:00 TEMP4 OUT: 103 °c 09/08/2025 17:30 TEMP4 IN: ThermometerID: WET OVEN#1

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

A = Sample Volume (ml)

B = Final Empty Dish Weight (g)

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

D = Weight (g)

Weight (g) = C - B

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

# WORKLIST(Hardcopy Internal Chain)

Department: Wet-Chemistry

WorkList ID: 191716

tss q3022

WorkList Name:

4017El A

		WORKLIST ID :	D: 191716	Department :	Wet-Chemistry	Dat	Date: 09-08-20	09-08-2025 07:50:04
Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date Method	Method
Q3007-02	Comp	Water	SSL					
Q3020-01	WATER-TREATMENT DISCUSSION	147	2	Cool 4 deg C	ARAM01	J42	09/03/2025 SM2540 D	SM2540 D
7 20000		water	282	Cool 4 deg C	VERI01	111	09/04/2025	SM2540 D
10-22022	1413	Water	TSS	Cool 4 deg C	PSEG03	D31	3000/170/00	OMOETO D
Q3024-01	TOWERS-1 15, C, D	Water	TSS	0 F			0302/40/60	SIMIZO40 D
O3024-02	TOWNED O			Cool 4 deg C	PSEG04	D21	09/04/2025 SM2540 D	SM2540 D
70-1-700	IOWERS-2 D.C	Water	TSS	Cool 4 deg C	PSEG04	D21	09/04/2025	CMOEAD
Q3025-01 F	DSN002	Water	TSS	0 200 4 1000			200	SINIZOTO D
O3025-03	7 7 700000			Cool 4 deg C	PSEG04	D31	09/04/2025	SM2540 D
7	Dalvool C) (C)	Water	TSS	Cool 4 deg C	PSEG04	D31	09/04/2025	CRADEAO D
Q3025-05 E)	E) C DSN003	Water	TSS	Cool 4 dea C	200		20214000	SIVIZ340 D
Q3028-01	EFFLUENT	Water	SS.		13EG04	D31	09/04/2025	SM2540 D
O3028 04			2	Cool 4 deg C	HOLL01	J12	09/04/2025	SM2540 D
	AERAIION	Water	TSS	Cool 4 deg C	HOLL01	.112	2007/00/00	1
Q3041-01	001 Willets Pt Blvd (Sep))	Water	Tec				03/04/2023	SMZ540 D
03041-04	17. A		8	Cool 4 deg C	TULL01	J11	09/04/2025	SM2540 D
	uuz sam Ave(sep)	Water	TSS	Cool 4 deg C	TULL01	111	09/04/2025 SM2540 D	SM2540 D

Date/Time 09/108/125

Date/Time 09108125 11:45

Raw Sample Relinquished by: Raw Sample Received by:

Raw Sample Relinquished by: Raw Sample Received by:

Reviewed By:Iwona On:9/9/2025 3:16:50 PM Inst Id :WC SC-3 LB:LB137104

Page 1 of 1



**Instrument ID:** WC SC-3

#### Daily Analysis Runlog For Sequence/QCBatch ID # LB137082

Review By	JIG	SNESH	Review On	9/5/2025 9:09:07 AM						
Supervise By	lwc	ona	Supervise On	9/5/2025 11:20:41 AM						
SubDirectory	LB	137082	Test	TPH						
STD. NAME		STD REF.#								
ICAL Standard		N/A	WA							
ICV Standard		N/A								
CCV Standard		N/A								
ICSA Standard		N/A								
CRI Standard		N/A								
LCS Standard		N/A								
Chk Standard		W3204,M6069,EP2636	WP112782,W3079,NA,WP112783,WP	112784,N/A						

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	LB137082BL	LB137082BL	МВ	09/05/25 09:47		JIGNESH	ок
2	LB137082BS	LB137082BS	LCS	09/05/25 09:47		JIGNESH	ок
3	LB137082BSD	LB137082BSD	LCSD	09/05/25 09:47		JIGNESH	ОК
4	Q3007-01	Grab	SAM	09/05/25 09:47		JIGNESH	ОК
5	Q3010-01	402	SAM	09/05/25 09:47		JIGNESH	ок
6	Q3022-01	1413	SAM	09/05/25 09:47		JIGNESH	ок



**Instrument ID:** DO METER

#### Daily Analysis Runlog For Sequence/QCBatch ID # LB137092

Review By	rub	ina	Review On	9/11/2025 9:28:17 AM						
Supervise By	lwo	ona	Supervise On	9/11/2025 10:03:12 AM						
SubDirectory	LB	137092	Test	BOD5						
STD. NAME		STD REF.#								
ICAL Standard		N/A	N/A							
ICV Standard		N/A								
CCV Standard		N/A								
ICSA Standard		N/A								
CRI Standard		N/A								
LCS Standard		N/A								
Chk Standard		WP114623,W3149,WP1	112832,W3103,W3109,W3105,WP1126	25,WP112624,WP113878						

Sr#	Sampleld	ClientID	QcType	Date	Comment	Operator	Status
1	LB137092BL	LB137092BL	МВ	09/05/25 09:50		rubina	ОК
2	LB137092BS	LB137092BS	LCS	09/05/25 09:50		rubina	ОК
3	Q3007-02	Comp	SAM	09/05/25 09:50	Due to bad matrix rubina difference between highest and lowest results is >30% for		OK
4	Q3007-02DUP	CompDUP	DUP	09/05/25 09:50 Due to bad matrix rubina difference between highest and lowest results is >30% for		rubina	ОК
5	Q3020-01	WATER-TREATMENT	SAM	09/05/25 09:50		rubina	ок
6	Q3022-01	1413	SAM	09/05/25 09:50		rubina	ОК
7	Q3025-01	DSN002	SAM	09/05/25 09:50		rubina	ок
8	Q3025-03	DSN001	SAM	09/05/25 09:50		rubina	ок
9	Q3025-05	DSN003	SAM	09/05/25 09:50		rubina	ок
10	Q3028-01	EFFLUENT	SAM	09/05/25 09:50	Due to bad matrix difference between highest and lowest results is >30% for	rubina	OK
11	Q3028-05	INFLUENT	SAM	09/05/25 09:50	Due to bad matrix difference between highest and lowest results is >30% for	rubina	OK



**Instrument ID:** WC SC-3

#### Daily Analysis Runlog For Sequence/QCBatch ID # LB137104

Review By	JIG	SNESH	Review On	9/9/2025 3:06:22 PM
Supervise By	lwo	ona	Supervise On	9/9/2025 3:16:50 PM
SubDirectory	LB	137104	Test	TSS
STD. NAME		STD REF.#		
ICAL Standard		N/A		
ICV Standard		N/A		
CCV Standard		N/A		
ICSA Standard		N/A		
CRI Standard		N/A		
LCS Standard		N/A		
Chk Standard		N/A		

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	LB137104BL	LB137104BL	MB	09/08/25 14:00		JIGNESH	ОК
2	LB137104BS	LB137104BS	LCS	09/08/25 14:00		JIGNESH	ОК
3	Q3007-02	Comp	SAM	09/08/25 14:00		JIGNESH	ОК
4	Q3007-02DUP	CompDUP	DUP	09/08/25 14:00		JIGNESH	ОК
5	Q3020-01	WATER-TREATMENT	SAM	09/08/25 14:00		JIGNESH	ОК
6	Q3022-01	1413	SAM	09/08/25 14:00		JIGNESH	ОК
7	Q3024-01	TOWERS-1	SAM	09/08/25 14:00		JIGNESH	ОК
8	Q3024-02	TOWERS-2	SAM	09/08/25 14:00		JIGNESH	ОК
9	Q3025-01	DSN002	SAM	09/08/25 14:00		JIGNESH	ОК
10	Q3025-03	DSN001	SAM	09/08/25 14:00		JIGNESH	ОК
11	Q3025-05	DSN003	SAM	09/08/25 14:00		JIGNESH	ОК
12	Q3028-01	EFFLUENT	SAM	09/08/25 14:00		JIGNESH	ОК
13	Q3028-04	AERATION	SAM	09/08/25 14:00		JIGNESH	ОК
14	Q3041-01	001 Willets Pt Blvd (So	SAM	09/08/25 14:00		JIGNESH	ОК
15	Q3041-04	002 35th Ave(sep)	SAM	09/08/25 14:00		JIGNESH	ОК



Q3007

Order ID:

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

8900, Fax: 908 789 8922

#### **Prep Standard - Chemical Standard Summary**

Test :	BOD5,TPH,TSS
Prepbatch ID :	
Sequence ID/Qc Bate	ch ID: LB137082,LB137092,LB137104,
Standard ID : EP2636,WP111315,V	VP112624,WP112625,WP112782,WP112783,WP112784,WP112832,WP113878,WP114623,
Chemical ID :	
	,M6069,M6151,W2651,W2817,W2871,W3009,W3079,W3082,W3103,W3105,W3109,W3112,W31 3233,



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#### **Extractions STANDARD PREPARATION LOG**

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	<u>ScaleID</u>	<u>PipetteID</u>	Supervised By  Evelyn Huang
3923	Baked Sodium Sulfate	EP2636	08/27/2025	01/28/2026	Riteshkumar	Extraction_SC	None	
					Patel	ALE_2		08/27/2025
	4000 00000 man of F2075 — Final C		00.000		-	(EX-SC-2)		

<b>FROM</b> 4000.00000gram of E3875 = Final Quantity: 4000.000 g	gram
--	------

Rec		NO.	Prep Date	Expiration Date	Prepared By	<u>ScaleID</u>	<u>PipetteID</u>	Supervised By Iwona Zarych
199	HEXAVALENTCHROMIUM STOCK STD 1, 50PPM	<u>WP111315</u>	01/09/2025	07/09/2025	Rubina Mughal	WETCHEM_S CALE 5 (WC	None	01/09/2025
	- CTOOK GTD 1, GGT 1 III				l	SC-5)		01/09/2023

**FROM** 0.14140gram of W2651 + 1000.00000ml of W3112 = Final Quantity: 1000.000 ml



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#### Wet Chemistry STANDARD PREPARATION LOG

Recipe ID	NAME.	NO.	Prep Date	Expiration Date	Prepared By	<u>ScaleID</u>	<u>PipetteID</u>	Supervised By Iwona Zarych
3808	Calibration and CCV std HexChrome 0.5PPM	<u>WP112624</u>	04/07/2025	04/08/2025	Rubina Mughal	None	WETCHEM_F IPETTE_3	04/09/2025
FROM	99.00000ml of W3112 + 1.00000ml o	of WP111315	= Final Qua	ntitv: 100.000	ml		(VVC)	

<u>ROM</u>	99.00000ml of W3112 +	1.00000ml of WP111315	= Final Quantity: 100.000 mi

Recipe ID	NAME	<u>NO.</u>	Prep Date	Expiration Date	Prepared By	<u>ScaleID</u>	<u>PipetteID</u>	Supervised By Iwona Zarych
3809	Calibration std HexChrome 1.0PPM	<u>WP112625</u>	04/07/2025	04/08/2025	Rubina Mughal	None	WETCHEM_F IPETTE_3 (WC)	,

**FROM** 98.00000ml of W3112 + 2.00000ml of WP111315 = Final Quantity: 100.000 ml



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#### Wet Chemistry STANDARD PREPARATION LOG

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

<b>FROM</b>	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 ID	NAME.	NO.	Prep Date	Expiration Date	Prepared By	<u>ScaleID</u>	<u>PipetteID</u>	Supervised By Iwona Zarych
3374	1664A QCS spiking solution-SS	WP112784	04/22/2025	10/03/2025	Jignesh Parikh	WETCHEM_S CALE 8 (WC		04/22/2025
FROM	1000.00000ml of E3917 + 4.00000gr	l am of W300	9 + 4.00000g	ram of W3082		SC-7)		04/22/2023

<u>ROM</u>	1000.00000ml of E3917	+ 4.00000gram of W3009	9 + 4.00000gram of W3082	= Final Quantity: 1000.000 ml

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	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** 



#### Wet Chemistry STANDARD PREPARATION LOG

Recipe ID	NAME_	NO.	Prep Date	Expiration Date	Prepared By	<u>ScaleID</u>	<u>PipetteID</u>	Supervised By  Jignesh Parikh		
1571	Sodium hydroxide, 1N	WP113878	07/09/2025	12/31/2025	Iwona Zarych	WETCHEM_S CALE 7 (WC	None	07/00/0005		
						<b>–</b> `		07/09/2025		
FROM	FROM 4.00000gram of W3113 + 96.00000ml of W3112 = Final Quantity: 100.000 ml									

ROM	4.00000gram of W3113 + 96.00000ml of W3112 = Final Quantity: 100.000 ml
-ROM	1.000000 gram of VV3113 + 96.00000 mi of VV3112 = Final Quantity: 100.000 i

Recipe				Expiration	Prepared			Supervised By
<u>ID</u>	<u>NAME</u>	<u>NO.</u>	Prep Date	<u>Date</u>	<u>By</u>	<u>ScaleID</u>	<u>PipetteID</u>	Jignesh Parikh
127	BOD Dilution fluid	WP114623	09/05/2025	09/06/2025	Rubina Mughal	None	None	· ·
								09/08/2025

18.00000L of W3112 + 3.00000PILLOW of W3233 = Final Quantity: 18.000 L **FROM** 



#### **CHEMICAL RECEIPT LOG BOOK**

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



#### **CHEMICAL RECEIPT LOG BOOK**

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	A12244 / Stearic acid, 98%, 100 g	U20E006	04/02/2026	04/02/2021 / apatel	04/02/2021 / apatel	W2817
Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	H223-57 / Hexadecane, 99.0%	0000266903	05/04/2027	09/07/2021 / apatel	08/26/2021 / apatel	W2871
Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	H223-57 / Hexadecane, 99.0%	SHBP8192	02/27/2028	02/27/2023 / Iwona	02/27/2023 / Iwona	W3009
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
		072154301 Lot #	01/30/2029  Expiration Date			W3079  Chemtech Lot #
Supply, Inc.	(60-200 mesh), 2.5 KG		Expiration	jignesh  Date Opened /	jignesh  Received Date /	Chemtech
Supply, Inc.  Supplier  PCI Scientific	ItemCode / ItemName A12244 / Stearic acid,	Lot #	Expiration Date	Date Opened / Opened By	jignesh  Received Date / Received By  02/26/2024 /	Chemtech Lot #



#### **CHEMICAL RECEIPT LOG BOOK**

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 / lwona	07/03/2024 / lwona	W3112
Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date /	Chemtech Lot #
PCI Scientific Supply, Inc.	PC19510-7 / Sodium Hydroxide Pellets 12 Kg	23B1556310	12/31/2025	07/08/2024 / lwona	07/08/2024 / lwona	W3113
Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	AL70850-8 / Starch Solution, 4L	4408P62	08/31/2026	10/16/2024 / Iwona	10/16/2024 / Iwona	W3149
			Expiration	Date Opened /	Received Date /	Chemtech
Supplier	ItemCode / ItemName	Lot #	Date	Opened By	Received By	Lot #



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#### **CHEMICAL RECEIPT LOG BOOK**

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



### Certificate of Analysis

Product No.: 13450

Product: Potassium dichromate, ACS, 99.0% min

Lot No.: T15F019

Test	Limits	Results
Appearance	Orange-red crystals	Orange-red crystals
Identification	To Pass	Passes
Purity	99.0 % min	99.67 %
Insoluble matter	0.005 % max	0.004 %
Loss on drying	0.05 % max	0.03 %
Chloride	0.001 % max	< 0.001 %
Sulfate	0.005 % max	< 0.005 %
Iron	0.001 % max	< 0.001 %
Calcium	0.003 % max	0.0012 %
Sodium	0.02 % max	0.0047 %

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This is to certify that units of the lot number above 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 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 above information is the actual analytical results obtained.



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



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:

CCCCCCCCCCCCCC(O)=O

Synonym:

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

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

**Product Specification** 

Appearance (Color):

White

Form:

Crystals or powder or crystalline powder or flakes or waxy solid

Assay (Silylated GC):

≥97.5%

Melting Point (clear melt):

67.0-74.0?C

Date Of Print:

11/30/2023

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

W3009 Lec. 2/27/2023

12

3050 Spruce Street, Saint Louis, MO 63103, USA

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

Outside USA: eurtechserv@sial.com

Product Name:

**Certificate of Analysis** 

CH<sub>3</sub>(CH<sub>2</sub>)<sub>14</sub>CH<sub>3</sub>

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.





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

# **CERTIFICATE OF ANALYSIS**

PRODUCT:

SODIUM SULFATE CRYSTALS ANHYDROUS

QUALITY:

ACS (CODE RMB3375)

FORMULA:

Na<sub>2</sub>SO<sub>4</sub>

MEMPERSON .

SPECIFICATION NUMBER: 6399

RELEASE DATE:

MAY/23/2024

LOT NUMBER:

417203

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

QC: PhC Irma Belmares

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

Acetone BAKER RESI-ANALYZED® Reagent For Organic Residue Analysis



Material No.: 9254-03

Batch No.: 24H2762008

Manufactured Date: 2024-04-18

Expiration Date: 2027-04-18

Revision No.: 0

# Certificate of Analysis

Test		
	Specification	Result
Assay ((CH <sub>3</sub> ) <sub>2</sub> 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 <sub>2</sub> 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	\ <del>-</del> 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 <sub>4</sub> )	≤ 1 ppm	1 ppm
Chloride (CI)	≤ 0.1 ppm	< 0.1 ppm
Nitrate (NO₃)	≤ 0.2 ppm	< 0.1 ppm
Phosphate (PO4)	≤ 0.5 ppm	< 0.1 ppm
Trace Impurities – Aluminum (Al)	≤ 30.0 ppb	< 5.0 ppb
Arsenic and Antimony (as As)	≤ 4.0 ppb	< 2.0 ppb
Trace Impurities – Boron (B)	≤ 10.0 ppb	8.5 ppb
Trace Impurities – Cadmium (Cd)	≤ 2.0 ppb	< 0.3 ppb
Trace Impurities - Chromium (Cr)	≤ 6.0 ppb	< 0.4 ppb
Trace Impurities - Cobalt (Co)	≤ 0.5 ppb	< 0.3 ppb
Trace Impurities - Copper (Cu)	≤ 1.0 ppb	< 0.1 ppb
Trace Impurities - Gold (Au)	≤ 10.0 ppb	0.5 ppb
Heavy Metals (as Pb)	≤ 500.0 ppb	< 100.0 ppb
Trace Impurities - Iron (Fe)	≤ 50.0 ppb	1.3 ppb
Trace Impurities - Lead (Pb)	≤ 0.5 ppb	< 0.5 ppb
Trace Impurities - Magnesium (Mg)	≤ 7.0 ppb	0.8 ppb
Trace Impurities – Manganese (Mn)	≤ 1.0 ppb	< 0.4 ppb
Trace Impurities – Mercury (Hg)	≤ 0.5 ppb	< 0.1 ppb
Trace Impurities - Nickel (Ni)	≤ 2.0 ppb	0.3 ppb
Trace Impurities – Potassium (K)	≤ 500.0 ppb	< 2.0 ppb
Trace Impurities - Selenium (Se)	≤ 50.0 ppb	< 0.1 ppb
Trace Impurities – Silicon (Si)	≤ 100.0 ppb	31.5 ppb
Trace Impurities – Silver (Ag)	≤ 1.0 ppb	< 0.3 ppb

>>> Continued on page 2 >>>

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





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

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

For Laboratory, Research, or Manufacturing Use

Country of Origin: USA

Packaging Site: Phillipsburg Mfg Ctr & DC





### Certificate of Analysis

#### Product information

**Product** 

pH-Fix 0.3-2.3

REF

92180

LOT

80A0441

**Expiration date:** 

29.02.2028

Date of examination:

23.01.2024

Gradation:

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

#### Confirmation

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

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

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

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





M6151

R-> 1/15/25

Material No.: 9530-33

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

Retest Date: 2027-06-14

Revision No.: 0

# Certificate of Analysis

Test	Specification	Result
ACS - Assay (as HCI) (by acid-base titrn)	36.5 - 38.0 %	
ACS - Color (APHA)	50.5 - 36.0 % ≤ 10	37.9 %
ACS - Residue after Ignition	≤ 3 ppm	5
ACS - Specific Gravity at 60°/60°F		< 1 ppm
ACS – Bromide (Br)	1.185 - 1.192	1.191
ACS - Extractable Organic Substances	≤ 0.005 %	< 0.005 %
ACS - Free Chlorine (as Cl2)	≤ 5 ppm	< 1 ppm
Phosphate (PO <sub>4</sub> )	≤ 0.5 ppm	< 0.5 ppm
Sulfate (SO <sub>4</sub> )	≤ 0.05 ppm	< 0.03 ppm
Sulfite (SO₃)	≤ 0.5 ppm	< 0.3 ppm
Ammonium (NH <sub>4</sub> )	≤ 0.8 ppm	0.3 ppm
Trace Impurities - Arsenic (As)	≤ 3 ppm	< 1 ppm
Trace Impurities - Aluminum (AI)	≤ 0.010 ppm	< 0.003 ppm
Arsenic and Antimony (as As)	≤ 10.0 ppb	1.3 ppb
Trace Impurities - Barium (Ba)	≤ 5.0 ppb	< 3.0 ppb
Trace Impurities - Beryllium (Be)	≤ 1.0 ppb	0.2 ppb
Trace Impurities - Bismuth (Bi)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities – Boron (B)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Cadmium (Cd)	≤ 20.0 ppb	< 5.0 ppb
Trace Impurities - Calcium (Ca)	≤ 1.0 ppb	< 0.3 ppb
	≤ 50.0 ppb	163.0 ppb
Trace Impurities - Chromium (Cr)	≤ 1.0 ppb	0.7 ppb
Trace Impurities - Cobalt (Co)	≤ 1.0 ppb	< 0.3 ppb
Trace Impurities - Copper (Cu)	≤ 1.0 ppb	< 0.1 ppb
Trace Impurities – Gallium (Ga)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities – Germanium (Ge)	≤ 3.0 ppb	< 2.0 ppb
Frace Impurities – Gold (Au)	≤ 4.0 ppb	0.6 ppb
Heavy Metals (as Pb)	≤ 100 ppb	< 50 ppb
Frace Impurities – Iron (Fe)	≤ 15 ppb	6 ppb

>>> Continued on page 2 >>>

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





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

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

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





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

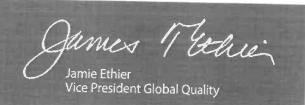
Test

Specification

Result

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

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



### Certificate of Analysis

#### **Product information**

Product:

Silica 60, 0.063 - 0.200 mm

REF:

815330.25

LOT:

072154301

#### Technical data

Material:

Synthethic amorphus silica (irregular shaped)

Description:

White powder

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

### **Expiry**

This product has no stated expiration date or shelf life.

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

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

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

#### Confirmation

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

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

Date of measurement: 16.02.2023 22:00

# Certificate of analysis

W3082 Received on 2/26/2026 by IZ

Product No.: A12244

Product: Stearic acid, 98%

Lot No.: U23E020

Appearance White flakes

Assay 98.7 %

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# Certificate of Analysis

Manganous Sulfate Solution, 364 g/L

Lot Number: 2403J02 Product Number: 4620

Manufacture Date: MAR 15, 2024

Expiration Date: MAR 2026

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

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

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

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

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

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

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



Jose Pena (03/15/2024)

Operations Manager

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

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

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# Certificate of Analysis

Sodium Thiosulfate, 0.0250 Normal (N/40)

Lot Number: 4403S13 Product Number: 7900

Manufacture Date: MAR 29, 2024

Expiration Date: SEP 2025

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

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

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

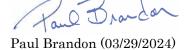
Specification	Reference
Standard Sodium Thiosulfate Solution, 0.0250 N	APHA (4500-S2- F)
Standard Sodium Thiosulfate Titrant	APHA (4500-O D)
Standard Sodium Thiosulfate Titrant	APHA (4500-O E)
Standard Sodium Thiosulfate Titrant	APHA (4500-O F)
Standard Sodium Thiosulfate Titrant, 0.025 N	APHA (4500-Cl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

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

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

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

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



Production Manager

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

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

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# 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.

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# Certificate of Analysis

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

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

Expiration Date: AUG 2026

This product is Mercury-free.

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

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

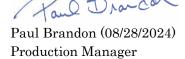
Specification	Reference
Starch Solution	APHA (4500-S2- F)
Starch Indicator Solution	APHA (4500-Cl B)
Starch Indicator	APHA (4500-SO32- B)
Starch indicator solution	APHA (2350 B)
Starch indicator solution	APHA (2350 E)
Starch Solution	APHA (510 B)
Starch Solution	APHA (5530 C)
Starch Indicator	APHA (4500-C1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

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

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

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

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



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

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

	v. / w. y. y.	
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)	<b>\= 10</b>	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

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

#### An ISO 9001 Certified Company

### Certificate of Analysis

### This is a Component of 1486266 / LOT A5105

**PRODUCT:** BOD Nutrient Buffer Pillows

PRODUCT NUMBER: 1486227 LOT NUMBER: A5105

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

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

The expiration date is May 2030

Certified by: Scottals

**Analytical Services Chemist** 



# SHIPPING DOCUMENTS



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

ALLIANCE PROJECT NO. QUOTE NO.

COC Number 2045042

3 - 1	CLIENT INFORMATION				LIENT PROJECT INFORMATION					CLIENT BILLING INFORMATION							
COMPANY:	Aramark Uniforms	PROJEC	CT.NA	ME: /	=: Monthly					BILL TO:					PO#:		
ADDRESS: 740 Frelinghuysen Ave PROJE			T NO.:		LOCA	ATION:	/			ADDRESS:							
city New	WARK STATE: NJ ZIP: 07/14	PROJECT	T MAN	AGER:						CITY					STA	TE:	:ZIP:
	Jarrod Mills	e-mail:	nail:			ATTENTION:			PHC	PHONE:							
PHONE: 97	3-824-1101 FAX:	PHONE:	E: FAX::					ANAL					ALYSIS				
	DATA TURNAROUND INFORMATION		DA	TA DELIVE	RABLE IN	FORM	ATION	110	10							, ,	الازاميات
FAX (RUSH)			Level 1 (Results Only) Level 4 (QC + Full Raw Data) Level 2 (Results + QC) NJ Reduced US EPA CLP Level 3 (Results + QC NYS ASP ANYS ASP BHAW Data) Haw Data) EDD FORMAT  1 2 3.				3. 4 5 6 7 8 9										
ALLIANCE SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE	TYPE		MPLE ECTION TIME	# OF BOTTLES	<u>C</u>	E	E 3	PRES	SERVA 5	fives 6	7	8	9	T	fy Preservatives D-NaOH E-ICE F-OTHER
1.	Grab	W	J	9-3-25	1010	T	V			-	_						
2.	Comp	W	V	4.3.2		1		V	V								
3.	V																
4.																	
5.																	
6.																	
7.																	
8.																	
9.					4												
10.																	
	SAMPLE CUSTODY MUST BE DOC	JMENTED	BELO	W EACH T	ME SAMP	LES C	HANGE	POSS	ESSIO	N INCL	UDING	COUR	IER DE	LIVER	Y	7 . 6	1000
RELINQUISHED BY RELINGUISHED BY REANQUISHED BY	Y SAMPLER: DATE/TIME: 1625 RECEIVED BY:	P	101 9-3-	S Condition Comme	ions of bottles								OOLER TI	EMP		5×1	_ °C
46	34 9-3-25 3.				of		CLIENT	: 4	Hand De	elivered	<b>0</b>	tner					t Complete  NO



#### Laboratory Certification

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

QA Control Code: A2070148