

# **Cover Page**

- **Order ID :** P1747
- Project ID : Walter Gladwin Recreation Center, Bronx, NY
  - Client : LiRo Engineers, Inc.

Lab Sample Number	Client Sample Number
P1747-01	MW-01
P1747-02	MW-01-DUP
P1747-03	MW-01
P1747-04	MW-02
P1747-05	MW-04
P1747-06	TRIP-BLANK
P1747-07	MW-01
P1747-08	MW-01-DUP
P1747-09	MW-02
P1747-10	MW-04

I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hard copy data package has been authorized by the laboratory manager or his designee, as verified by the following signature.

Signature :

Date: 3/18/2024

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012



#### 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
Ε	Indicates the reported value is estimated because of the presence of interference
Μ	Indicates Duplicate injection precision not met.
Ν	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"T"for Manual Spectrophotometric"T"for Titrimetric"NR"for analyte not required to be analyzedIndicates 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

#### APPENDIX A

#### **QA REVIEW GENERAL DOCUMENTATION**

Project #: P1747

Completed

For thorough review, the report must have the following:	
GENERAL:	
Are all original paperwork present (chain of custody, record of communication,airbill, sample management lab chronicle, login page)	
Check chain-of-custody for proper relinquish/return of samples	<u>✓</u>
Is the chain of custody signed and complete	✓ ✓ ✓ ✓
Check internal chain-of-custody for proper relinquish/return of samples /sample extracts	<u>✓</u>
Collect information for each project id from server. Were all requirements followed	<u>✓</u>
COVER PAGE:	
Do numbers of samples correspond to the number of samples in the Chain of Custody on login page	<u>✓</u>
Do lab numbers and client Ids on cover page agree with the Chain of Custody	<u>✓</u>
CHAIN OF CUSTODY:	
Do requested analyses on Chain of Custody agree with form I results	<u>✓</u>
Do requested analyses on Chain of Custody agree with the log-in page	✓
Were the correct method log-in for analysis according to the Analytical Request and Chain of Castody	✓ ✓ ✓
Were the samples received within hold time	✓
Were any problems found with the samples at arrival recorded in the Sample Management Laboratory Chronicle	<u> </u>
ANALYTICAL:	
Was method requirement followed?	<u>✓</u>
Was client requirement followed?	<u>✓</u>
Does the case narrative summarize all QC failure?	✓ ✓ ✓ ✓ ✓ ✓
All runlogs and manual integration are reviewed for requirements	<u>✓</u>
All manual calculations and /or hand notations verified	<u>✓</u>

1st Level QA Review Signature:

MAYUR DESAI

Date: 03/18/2024



#### Phone: (908) 789 8900 Fax: (908) 789 8922

#### LAB CHRONICLE

OrderID: Client: Contact:	P1747 LiRo Engineers, Inc. Steve Frank	OrderDate:3/13/2024 12:28:00 PMProject:Walter Gladwin Recreation Center, Bronx.Location:I21,I31,VOA Ref. #3 Water				enter, Bronx, NY		
LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
P1747-03	MW-01	WATER			03/13/24 10:00			03/13/24
			CBOD5	SM5210 B			03/14/24 10:30	
			Chloride	SM4500-CL C			03/14/24 15:22	
			Flash Point	1010B			03/14/24 13:15	
			Hexavalent Chromium	SM3500-Cr B			03/14/24 11:14	
			Non-Polar Material	1664A			03/15/24 15:00	
			Phenolics	420.1		03/15/24	03/15/24 14:29	
			TKN	SM4500-N Org C-11 plus NH3 B plus G-11		03/18/24	03/19/24 11:26	
			Total Nitrogen	Cal			03/18/24 00:00	
			TS	SM2540 B			03/14/24 11:00	
			TSS	SM2540 D			03/18/24 09:30	







### **Report of Analysis**

Client:	LiRo Engineers, Inc.	Date Collected:	03/13/24 10:00
Project:	Walter Gladwin Recreation Center, Bronx, NY	Date Received:	03/13/24
Client Sample ID:	MW-01	SDG No.:	P1747
Lab Sample ID:	P1747-03	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
CBOD5	19.0		1	0.17	2.00	mg/L		03/14/24 10:30	SM 5210 B-16
Chloride	61.2		1	0.54	5.00	mg/L		03/14/24 15:22	SM 4500-Cl
									C-11
Flash Point	>212		1	0	0	o F		03/14/24 13:15	1010B
Dissolved Hexavalent	0.010	U	1	0.0020	0.010	mg/L		03/14/24 11:14	SM 3500-Cr
Chromium									B-11
Non-Polar Material	5.00	U	1	0.53	5.00	mg/L		03/15/24 15:00	1664A
Phenolics	0.050	U	1	0.012	0.050	mg/L	03/15/24 11:30	03/15/24 14:29	420.1
TKN	1.00		1	0.13	0.50	mg/L	03/18/24 12:40	03/19/24 11:26	SM4500-N Org
									C-11 plus NH3
									B plus G-11
Nitrogen	1.04		1	0.15	0.60	mg/L		03/18/24 00:00	SM 4500-N
									Org C-11 plus
									NH3 B plus
									G-11
TS	576		1	1.00	5.00	mg/L		03/14/24 11:00	SM 2540 B-15
TSS	57.2		1	1.00	4.00	mg/L		03/18/24 09:30	SM 2540 D-15

Comments: Other method reference for flash point : Pensky-Martens Closed Cup Flash Point ASTM D 93 - IP 34

U = Not Detected	J = Estimated Value
LOQ = Limit of Quantitation	B = Analyte Found in Associated Method Blank
MDL = Method Detection Limit	* = indicates the duplicate analysis is not within control limits.
LOD = Limit of Detection	E = Indicates the reported value is estimated because of the presence
D = Dilution	of interference.
Q = indicates LCS control criteria did not meet requirements	OR = Over Range
H = Sample Analysis Out Of Hold Time	N =Spiked sample recovery not within control limits



# <u>QC RESULT</u> <u>SUMMARY</u>



**CHEMTECH** 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Sample ID: lash Poir	ICV	o F	81.7	81	101	78-84	03/14/2024							
Analyte		Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date							
Project:	ct: Walter Gladwin Recreation Center, Bronx, NY			: Walter Gladwin Recreation Center, Bronx, NY				Valter Gladwin Recreation Center, Bronx, NY						
Client:	LiRo Engineers,	Inc.	<b>SDG No.:</b> P1747											



	LiRo Engineers Walter Gladwir	s, Inc. 1 Recreation Cer	<b>SDG No.:</b> P1747 <b>RunNo.:</b> LB1293	881			
Analyte		Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID:	ICV						
Hexavalent	Chromium	mg/L	0.502	0.5	100	95-105	03/14/2024
Sample ID:	CCV1						
Hexavalent	Chromium	mg/L	0.500	0.5	100	90-110	03/14/2024
Sample ID:	CCV2						
Hexavalent	Chromium	mg/L	0.502	0.5	100	90-110	03/14/2024



Client: Project:	LiRo Engineers, In Walter Gladwin R	<b>SDG No.:</b> P1747 <b>RunNo.:</b> LB1299	910				
Analyte		Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID: Phenolics	ICV1	mg/L	0.97	1	97	90-110	03/15/2024
Sample ID: Phenolics	CCV1	mg/L	0.98	1	98	90-110	03/15/2024
Sample ID: Phenolics	CCV2	mg/L	1	1	100	90-110	03/15/2024



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

Client: Project:	LiRo Engineers, Ir Walter Gladwin Re		<b>SDG No.:</b> P1747 <b>RunNo.:</b> LB1299	942			
Analyte		Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID: TKN	ICV1	mg/L	4.8	5	96	90-110	03/19/2024
Sample ID: TKN	CCV1	mg/L	4.8	5	96	90-110	03/19/2024
Sample ID: TKN	CCV2	mg/L	4.9	5	98	90-110	03/19/2024
Sample ID: TKN	CCV3	mg/L	5	5	100	90-110	03/19/2024



	LiRo Engineers Walter Gladwir	,	<sup>1</sup> enter Brony 1	NV		SDG No.: RunNo.:	: P1747 LB129	881
Analyte		Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID: Hexavalent	ICB Chromium	mg/L	< 0.0050	0.0050	U	0.0021	0.01	03/14/2024
Sample ID: Hexavalent	CCB1 Chromium	mg/L	< 0.0050	0.0050	U	0.0021	0.01	03/14/2024
Sample ID: Hexavalent	CCB2 Chromium	mg/L	< 0.0050	0.0050	U	0.0021	0.01	03/14/2024

### Initial and Continuing Calibration Blank Summary



Client: Project:	LiRo Engineer Walter Gladwi	,	Center, Bronx, 1	NY	<b>SDG No.:</b> P1747 <b>RunNo.:</b> LB129910					
Analyte		Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date		
Sample ID: Phenolics	ICB1	mg/L	< 0.0250	0.0250	U	0.012	0.05	03/15/2024		
Sample ID: Phenolics	CCB1	mg/L	< 0.0250	0.0250	U	0.012	0.05	03/15/2024		
Sample ID: Phenolics	CCB2	mg/L	< 0.0250	0.0250	U	0.012	0.05	03/15/2024		

### **Initial and Continuing Calibration Blank Summary**



Client: Project:	LiRo Engineer Walter Gladwi	,	Center, Bronx, 1		<b>SDG No.:</b> P1747 <b>RunNo.:</b> LB129942					
Analyte		Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date		
Sample ID: TKN	ICB1	mg/L	< 0.2500	0.2500	U	0.13	0.5	03/19/2024		
Sample ID: TKN	CCB1	mg/L	< 0.2500	0.2500	U	0.13	0.5	03/19/2024		
Sample ID: TKN	CCB2	mg/L	< 0.2500	0.2500	U	0.13	0.5	03/19/2024		
Sample ID: TKN	CCB3	mg/L	< 0.2500	0.2500	U	0.13	0.5	03/19/2024		

### **Initial and Continuing Calibration Blank Summary**



Client: LiRo Engineers,	Inc.				SDG No.:	P1747	
<b>Project:</b> Walter Gladwin	Recreation Co	enter, Bronx, NY					
Analyte	Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID: LB12987	5BL						
CBOD5	mg/L	< 0.2000	0.2000	U	0.17	2.0	03/14/2024
Sample ID: LB129881		4 0 0050	0.0050		0.000	0.01	
Hexavalent Chromium	mg/L	< 0.0050	0.0050	U	0.002	0.01	03/14/2024
Sample ID: LB129888						_	
TS	mg/L	1	2.5000	J	1	5	03/14/2024
Sample ID: LB129890	)BL						
Chloride	mg/L	< 2.5000	2.5000	U	0.54	5.0	03/14/2024
Sample ID: LB129904	IBL						
Non-Polar Material	mg/L	< 2.5000	2.5000	U	0.53	5.0	03/15/2024
Sample ID: LB129917	'BL						
TSS	mg/L	1	2.0000	J	1	4	03/18/2024
Sample ID: PB159614	1BL						
TKN	mg/L	< 0.2500	0.2500	U	0.13	0.5	03/19/2024
Sample ID: PB159616	6BL						
Phenolics	mg/L	< 0.0250	0.0250	U	0.012	0.05	03/15/2024

# **Preparation Blank Summary**



# Matrix Spike Summary

Client:	LiRo Engineers, Inc.	SDG No.:	P1747	
Project:	Walter Gladwin Recreation Center, Bronx, NY	Sample ID:	P1747-03	
Client ID:	MW-01MS	Percent Solids for S	Spike Sample:	0

Analyte	Units	Acceptance Limit %R	Spiked Result	Conc. Qualifier	Sample Result	Conc. Qualifier	Spike Added	Dilution Factor	% Rec	Qual	Analysis Date
Chloride	mg/L	90-110	108		61.2		50.0	1	94		03/14/2024
Hexavalent Chromium	mg/L	90-111	0.95		0.0020	U	1.0	2	95		03/14/2024
TKN	mg/L	75-125	5.90		1.00		5	1	98		03/19/2024
Phenolics	mg/L	75-125	0.99		0.012	U	1	1	99		03/15/2024



# Matrix Spike Summary

Client:	LiRo Engineers, Inc.	<b>SDG No.:</b> P1747	
Project:	Walter Gladwin Recreation Center, Bronx, NY	<b>Sample ID:</b> P1747-03	
Client ID:	MW-01MSD	Percent Solids for Spike Sample:	0

Analyte	Units	Acceptance Limit %R	Spiked Result	Conc. Qualifier	Sample Result	Conc. Qualifier	Spike Added	Dilution Factor	% Rec	Qual	Analysis Date
Chloride	mg/L	90-110	108		61.2		50.0	1	94		03/14/2024
Hexavalent Chromium	mg/L	90-111	0.97		0.0020	U	1.0	2	97		03/14/2024
TKN	mg/L	75-125	5.90		1.00		5	1	98		03/19/2024
Phenolics	mg/L	75-125	0.98		0.012	U	1	1	<b>98</b>		03/15/2024



# **Duplicate Sample Summary**

nalyte Jon-Polar Mater	Units ial mg/L	Limit +/-18	Result 16.7	Qualifier	Result	Qualifier	Factor	AD 1.78	Qual	Date 03/15/20
		Acceptance	Sample		Duplicate	Conc.	Dilution	RPD/		Analys
Client ID:	LB129904BSD				Percent Sol	ids for Spil	ke Sample:	0		
Project:	Walter Gladwin Recrea	ation Center, Bron	ix, NY		Sample ID:	L	B129904BS	5		
Client:	LiRo Engineers, Inc.				SDG No.:	P17	747			



# **Duplicate Sample Summary**

Client:	LiRo Engineers, Inc.	<b>SDG No.:</b> P1747	
Project:	Walter Gladwin Recreation Center, Bronx, NY	<b>Sample ID:</b> P1747-03	
Client ID:	MW-01DUP	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
CBOD5	mg/L	+/-20	19.0		18.8		1	0.85		03/14/2024
Flash Point	o F	+/-2	>212.0		>212.0		1	0		03/14/2024
Hexavalent Chromium	mg/L	+/-20	0.0020	U	0.0020	U	1	0		03/14/2024
TS	mg/L	+/-5	576		551		1	4.44		03/14/2024
Chloride	mg/L	+/-20	61.2		61.0		1	0.33		03/14/2024
Phenolics	mg/L	+/-20	0.012	U	0.012	U	1	0		03/15/2024
TSS	mg/L	+/-5	57.2		56.9		1	0.53		03/18/2024
TKN	mg/L	+/-20	1.00		1.00		1	0		03/19/2024



# **Duplicate Sample Summary**

Client:	LiRo Engineers, Inc.	SDG No.:	P1747	
Project:	Walter Gladwin Recreation Center, Bronx, NY	Sample ID:	P1747-03	
Client ID:	MW-01MSD	Percent Solids f	or Spike Sample:	0

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/ AD	Qual	Analysis Date
Hexavalent Chromium	mg/L	+/-20	0.95		0.97		2	2.71		03/14/2024
Chloride	mg/L	+/-20	108		108		1	0		03/14/2024
Phenolics	mg/L	+/-20	0.99		0.98		1	1		03/15/2024
TKN	mg/L	+/-20	5.90		5.90		1	0		03/19/2024



					SDG No.:         P1747           Run No.:         LB129875				
nalyte		Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
ample ID LB1 CBOD5	129875BS	mg/L	198	175		88		84.6-115.4	03/14/2024



Client: Project:	LiRo Engineers, Inc. Walter Gladwin Recreation Center, Bronx, NY				SDG Run	No.: No.:	P1747 LB129881		
Analyte		Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID l Hexavalent Chr	LB129881BS omium	mg/L	0.5	0.51		103	1	90-111	03/14/2024



Client: Project:	LiRo Engineers, Inc. Walter Gladwin Recreation Center, Bronx, NY				SDG Run	No.: No.:	P1747 LB129890		
Analyte		Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID	LB129890BS								
Chloride		mg/L	50	47.0		94	1	90-110	03/14/2024



Client: Project:	LiRo Engineers, Inc Walter Gladwin Rec		Bronx, NY	SDG No.:         P1747           Run No.:         LB129904					
Analyte		Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID	LB129904BS erial	mg/L	20.0	16.7		84	1	78-114	03/15/2024



Client: Project:	LiRo Engineers, Inc. Walter Gladwin Recreation Center, Bronx, NY				SDG Run	No.: No.:	P1747 LB129904			
Analyte		Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date	
Sample ID Non-Polar Mate	LB129904BSD erial	mg/L	20.0	17.0		85	1	78-114	03/15/2024	



Client: Project:	LiRo Engineers, Inc. Walter Gladwin Recreation Center, Bronx, NY				SDG Run	No.: No.:	P1747 LB129917			
Analyte		Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date	
Sample ID	LB129917BS									
TSS		mg/L	550	531		96	1	90-110	03/18/2024	



Client: Project:	0	LiRo Engineers, Inc. Walter Gladwin Recreation Center, Bronx, NY				No.: No.:	P1747 LB129942		
Analyte		Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID TKN	PB159614BS	mg/L	5	4.80		96	1	90-110	03/19/2024



Client: Project:	LiRo Engineers, Inc. Walter Gladwin Recreation Center, Bronx, NY				SDG Run	No.: No.:	P1747 LB129910			
Analyte		Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date	
Sample ID	PB159616BS									
Phenolics		mg/L	1	0.97		97	1	80-120	03/15/2024	



# RAW DATA



QC BATCH ID:	LB129875
BOD Water:	WP106941
Starch:	W2977
Sulfuric acid, 1N:	WP105744
POLYSEED:	WP106943
GGA :	WP106942
Chlorine Strips:	W2965
pH Strips:	W3056
-	

			Reviewed By:Iwona On:3/19/2024 2:00:09 PM
CBOD5	LOG	ANALYST:	jigneInst Id :DO METER LB :LB129875
		SUPERVISOR:	Iwona
		Analysis Date:	03/14/2024
	MANGANOUS	SULFATE SOLUTION:	W2913
	Alka	line Iodide Azide:	W2914
	Sodium Th	iosulfate, 0.025N:	W2976
		NaOH, 1N:	WP106529
		IncubatorID:	INCUBATOR #3
		GuageID:	0511064
		Zero DO:	WP106592

Nitrification Inhibitor: <u>W3064</u>

		Bottle	VOL.	Initial	Final		
Lab SampleID	Client ID	No.	ML	Reading(ML)	Reading(ML)	Difference	Average
WINKLER 1	WINKLER 1	1	300	0.0	8.7	8.7	8.7
WINKLER 2	WINKLER 2	2	300	8.7	17.4	8.7	8.7
Motor Cal	ibration1: 8.71		Zero	DO Reading1:	0 1 4 m	lg/L (<=0.2 Cr	
	Pressure1: 771	mmHg DO		5	ing for winkle		8.78
	Pressure1: 771	mmHg DO		5			

Barometric Pressure2: 765 mmHg



#### QC BATCH ID: LB129875

**INCUBATOR TEMP IN(C):** 20.5

TIME IN: 10:30

**DATE IN:** 03/14/2024

**INCUBATOR TEMP OUT (C):** 20.4

TIME OUT: 11:30 DATE OUT: 03/19/2024

Lab SampleID	Bottle No.	Check CL	Initial PH	Final PH	Temp °C	Sam Vol. (mL)	D.O.1 Initial	D.O.2 Final	Depletion	BOD Result (mg/L)	Avg Result (mg/L)	Comment
LB129875BL	1	No	6.57	N/A	20.50	300	8.77	8.76	0.01	0.01	0.01	
POLYSEED	1					10	8.64	5.99	2.65	0.53	0.42	
POLYSEED	2					15	8.62	5.81	2.81	0.37		
POLYSEED	3					20	8.60	5.03	3.57	0.36		
GGA	1					6	8.68	4.82	3.86	172	175	
GGA	2					6	8.61	4.70	3.91	174.5		
GGA	3					6	8.59	4.60	3.99	178.5		
P1747-03	1	No	6.42	6.72	20.00	5	8.66	8.20	-	0	18.96	pH Adjuste
P1747-03	2					20	8.55	5.71	2.84	36.3		
P1747-03	3					50	8.54	5.60	2.94	15.12		
P1747-03	4					150	8.51	5.36	3.15	5.46		
P1747-03DUP	1	No	6.42	6.72	20.00	5	8.64	8.22	-	0	18.8	pH Adjuste
P1747-03DUP	2					20	8.57	5.74	2.83	36.15		
P1747-03DUP	3					50	8.54	5.64	2.9	14.88		
P1747-03DUP	4					150	8.50	5.39	3.11	5.38		

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

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

Chain)
Internal
WORKLIST(Hardcopy

Lb129875

Date: 03-14-2024 08:35:52 Raw Sample Department : Wet-Chemistry WorkList ID: 178579 Test Matrix cbod-314 WorkList Name : Sample

Method			03/13/2024 SM5210 B	
Collect Date Method			03/13/2024	
Storage	Location		131	
Customer			LIRO01	
reservative			Cool 4 deg C	
1001			CRODS	
		TALE LA CONTRACT	vvater	
Customer Sample		MVAL01		
		P1747-03		

08.30 9 õ r RM Raw Sample Relinquished by: N202/1/ 20 Raw Sample Received by: Date/Time

RIX Raw Sample Relinquished by: Date/Time 03/14/2024 Raw Sample Received by:

Reviewed By:Iwona On:3/19/2024 2:00:09 PM Inst Id :DO METER LB :LB129875

CUCI

Page 1 of 1



Analysis Method:	1010B	Reviewed By:	Nikita
Parameter:	Flash Point	Supervisor Review By:	Iwona
Run Number:	LB129879	Ambient Barometric Pressure(mmHg):	771.00
Thermometer ID:	Flashpoint	Barometric Scale ID:	0511064

Reviewed By:lwona On:3/14/2024 3:22:49 PM Inst Id :IGN-1 LB :LB129879

Reagent/Standard	Lot/Log #
p-xylene (ICV)	W3080

Seq	LabID	True Value °F	DL	Initial Sample °C	Celsius °C	Result °F	Final Result °F	Anal Date	Anal Time
1	ICV	81	1	8	28.00	82.4	81.7	03/14/2024	12:45
2	P1747-03		1	13	100.00	>212.0	>212.0	03/14/2024	13:15
3	P1747-03DUP		1	12	100.00	>212.0	>212.0	03/14/2024	13 <b>:</b> 45

Result = (Celsius \* 1.8) + 32 Final Result = Result + (760 - Ambient Barometric Pressure) \* 0.06

LB. R9879	RKLIST(Hardcopy Internal Chain)
	WORKL

VorkList Name :	WorkList Name: 03/14/24 flashpoint	WorkList ID: 178584	Department :	Department : Wet-Chemistry	Date: 03-14-2024 11:12:29
Sample	Customer Sample	Matrix Test	Preservative	Customer	Raw Sample Storage Collect Date Method Location
P1747-03	MW-01	Water Flash Point	Cool 4 dea C	LIROOT	101 1010
			2	-1	1010B 03/13/2024 1010B

12:30 Raw Sample Relinquished by: 3 Raw Sample Received by:  $\Delta I$ ,  $\rho$ DateTime 03/14/2024

Reviewed By:Iwona On:3/14/2024 3:22:49 PM Inst Id :IGN-1 LB :LB129879 N.P. W. 10Codel Date/Time OB(14)2024 Raw Sample Relinquished by: Raw Sample Received by:

Page 1 of 1



#### Analytical Summary Report

Analysis Method: SM3500-Cr B

Parameter: Hexavalent Chromium

Run Number: LB129881

ANALYST: Rubina

SUPERVISOR REVIEW BY: Iwona

pH Meter ID: WC pH Meter-1

Reagent/Standard	Lot/Log #
Calibration Std. hexchrome 0.1 ppm	WP106949
Calibration Std. hexchrome 0.05 ppm	WP106948
calibration std. hexchrome 0.01 ppm	WP106946
calibration std. hexchrome 0 ppm	WP106945
hexavalent chromium color reagent	WP106884
0.2N SULFURIC ACID	WP106542
Calibration Std Hexachrome 0.025 ppm	WP106947
Hexavalent Chromium ICV-LCS Std	WP106952
Calibration and CCV std HexChrome 0.5PPM	WP106950
Calibration std HexChrome 1.0PPM	WP106951

Intercept: 0

**Slope:** 0.7804

Regression: 0.999996

		True Value		Initial Vol	Final Vol	рĦ	рН	Absorb.at 540nm A		Absorbance	Result	%D	Anal	Anal
Seq	Lab ID	(mg/l)	DF	(ml)	(ml)	HN03	H2SO4	Backgrnd	Color	Difference	(mg/L)		Date	Time
1	CAL1	0	1	100	100		1.77	0.000	0.000	0.000	0		03/14/2024	11:00
2	CAL2	0.01	1	100	100		1.88	0.000	0.009	0.009	0.011	10	03/14/2024	11:01
3	CAL3	0.025	1	100	100		1.86	0.000	0.018	0.018	0.023	-8	03/14/2024	11:02
4	CAL4	0.05	1	100	100		1.84	0.000	0.039	0.039	0.049	-2	03/14/2024	11:03
5	CAL5	0.1	1	100	100		1.88	0.000	0.078	0.078	0.099	-1	03/14/2024	11:04
6	CAL6	0.5	1	100	100		1.86	0.000	0.391	0.391	0.501	0.2	03/14/2024	11:05
7	CAL7	1	1	100	100		1.87	0.000	0.780	0.780	0.999	-0.1	03/14/2024	11:06



#### Analytical Summary Report

#### Analysis Method: SM3500-Cr B

Parameter: Hexavalent Chromium

Run Number: LB129881

ANALYST:Rubina

SUPERVISOR REVIEW BY:Iwona

pH Meter ID:WC pH Meter-1

		True Value		Initial Vol	Final Vol	рН	рĦ	Absorb.a	t540nm	Absorbance	Intermediate	Anal Date	Anal
Seq	Lab ID		DF	(ml/gm)	(ml)	HN03	H2SO4	Backgrnd	Color	Difference	Result (mg/L)		Time
1	ICV	0.5	1	100	100		1.93	0.000	0.392	0.392	0.502	03/14/2024	11:07
2	ICB		1	100	100		1.76	0.000	0.000	0.000	0.000	03/14/2024	11:08
3	CCV1	0.5	1	100	100		1.95	0.000	0.390	0.390	0.500	03/14/2024	11:09
4	CCB1		1	100	100		1.78	0.000	0.000	0.000	0.000	03/14/2024	11:10
5	RL Check	0.01	1	100	100		1.92	0.000	0.009	0.009	0.012	03/14/2024	11:11
6	LB129881BL		1	100	100		1.75	0.000	0.000	0.000	0.000	03/14/2024	11:12
7	LB129881BS	0.5	1	100	100		1.92	0.000	0.401	0.401	0.514	03/14/2024	11:13
8	P1747-03		1	100	100		2.08	0.000	0.000	0.000	0.000	03/14/2024	11:14
9	P1747-03DU		1	100	100		2.06	0.000	0.000	0.000	0.000	03/14/2024	11:15
10	P1747-03MS	1	2	100	100		2.10	0.000	0.369	0.369	0.473	03/14/2024	11:16
11	P1747-03MS	1	2	100	100		2.08	0.000	0.379	0.379	0.486	03/14/2024	11:17
12	CCV2	0.5	1	100	100		1.93	0.000	0.392	0.392	0.502	03/14/2024	11:18
13	CCB2		1	100	100		1.74	0.000	0.000	0.000	0.000	03/14/2024	11:19

VORKLIST(Hardcopy Internal Chain	$\sim$
RKLIST	Chain
RKLIST	Internal
RKLIST	(Hardcopy
-	RKLIST
	VORK

19129884

03/13/2024 SM3500-Cr B

WorkList Name :	HEX-313	WorkList ID :	: 178559	Department : Wet-Chemistry	let-Chemistry	Date :	Date: 03-13-2024 14:47:19	4 14:47:19
Sample	Customer Sample	Matrix Test	lest	Preservative	Customer	Raw Sample Storage Co Location	Collect Date Method	Method
P1747-03	MW-01	Water	Water Hexavalent Chromium	Ammonium sulfate buffer LIR001	ffer LIRO01	[31	13/13/2004	MallarDood SWSEND OLD
					A CONTRACTOR OF A CONTRACTOR O	2	++>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>	

16 45 Col 5 Raw Sample Received by:  $\overline{\mathcal{R}\mathcal{H}}$ Raw Sample Relinquished by: 03/13/2024 Date/Time

03/13/2024 Raw Sample Relinquished by: Raw Sample Received by: Date/Time

Page 1 of 1

Reviewed By:Iwona On:3/14/2024 2:11:21 PM Inst Id :SPECTROPHOTOME 000 RN B

00-21



SUPERVISOR:	Iwona
ANALYST:	jignesh
Date:	03/14/2024
Run Number:	LB129888
BalanceID:	WC SC-4
OvenID:	WC OVEN-1
ThermometerID:	WET OVEN#1

TEMP1 IN:	103 °C	03/14/2024	11:00	TEMP1 OUT:	103 °C	03/14/2024	12:00
TEMP2 IN:	104 °C	03/14/2024	12:30	TEMP2 OUT:	104 °C	03/14/2024	13:30
TEMP3 IN:	103 °C	03/14/2024	16:00	TEMP3 OUT:	103 °C	03/15/2024	07:30
TEMP4 IN:	104 °C	03/15/2024	08:00	TEMP4 OUT:	104 °C	03/15/2024	09:30

Dish #	Lab ID	Client ID	Empty Dish Weight (g)	Final Empty Dish Weight (g)	Sample Vol (ml)	Orignal weight 1st Dish+Sample weight after Drying @103-@105°C (g)	Constant weight 2nd Dish+Sample weight after Drying @103-@105°C (g)	Final Constant weight Final Dish+Sample weight after Drying @103-@105°C (g)		Result (mg/L)
1	LB129888BL	LB129888BL	85.6964	85.6964	100	85.6965	85.6965	85.6965	0.0001	1
2	P1747-03	MW-01	88.9196	88.9196	100	88.9772	88.9772	88.9772	0.0576	576
3	P1747-03DUP	MW-01DUP	98.4775	98.4775	100	98.5326	98.5326	98.5326	0.0551	551

A = Sample Volume (ml)

B = Final Empty Dish Weight (g)

C = Final Dish+Sample weight after Drying  $@103-@105^{\circ}C$  (g)

Result mg/L = ((C - B) / A) \* 1000 \* 1000

7 124	
	VVURKLIS I (Hardcopy Internal Chain)

WorkList Name: ts water p1047	ts water p1047	WorkList ID :	178596	Department :	Department : Wet-Chemistry	Date: 03-14-2024 14:21:17
Sample	Customer Sample	Matrix Test	Ţ	Preservative	Customer	Raw Sample Storage Collect Date Method Location
P1747-03 I	MW-01	Water TS		Cool 4 ded C		
				) )) ; )	- 1	151 03/13/2024 SM2540 B

Raw Sample Relinquished by: XTC 5M Raw Sample Received by: 28 LUU C Date/Time 03/14/24 [41,30

th 2 g Date/Time  $\frac{\partial 3}{\partial 1} \frac{\partial}{\partial 1} \frac{\partial}{\partial 1} \frac{\partial}{\partial 1} \frac{\partial}{\partial 1}$ Raw Sample Received by:

Raw Sample Relinquished by:

Page 1 of 1

Reviewed By:Iwona On:3/15/2024 10:19:46 AM Inst Id :WC SC-3 LB :LB129888

45

888ber v



Analysis Method: SM4500-CL C

Parameter: Chloride

Run Number: LB129890

ANALYST:	Rubina
SUPERVISOR REVIEW BY:	Iwona
Constant:	35450
Normality1:	0.0141

Reagent/Standard	Lot/Log #
Indicator-acidifier reagent - Chloride	WP106963
Chloride Blank	WP105287
Chloride LCS std - 50ppm	WP106962
MERCURIC NITRATE, 0.0141 N 4L	W3075

Seq	Lab ID	True Value (mg/L)	Dilution	Sample Volume (mL)	Titrant Initial (ml)	Titrant Final (ml)	Titrant Diff. (ml)	Result (mg/L)	Anal Date	Anal Time
1	LB129890BL		1	50	0.00	0.03	0.03	0.00	03/14/2024	15:15
2	LB129890BS	50	1	20	0.00	1.91	1.91	46.99	03/14/2024	15:18
3	P1747-03		1	20	0.00	2.48	2.48	61.23	03/14/2024	15:22
4	P1747-03DUP		1	20	0.00	2.47	2.47	60.98	03/14/2024	15:25
5	P1747-03MS	50	1	20	0.00	4.36	4.36	108.22	03/14/2024	15:28
6	P1747-03MSD	50	1	20	0.00	4.35	4.35	107.97	03/14/2024	15:31

Titrant Diff = TitrantFinal - TitrantInitial

Result = (Titrant Diff - Row Blank Value \* Normality)) \* Constant / Sa

Chain)	
Internal (	
Hardcopy	1
<b>VORKLIST</b> (	

CB 129890 ~

<b>Date</b> : 03-14-2024 10:14:14	Collect Date Method	03/13/2024 SM4500-CL C
	Raw Sample Storage Location	131
Department : Wet-Chemistry	Customer	LIR001 131
Department :	Preservative	Cool 4 deg C
178576	st	lloride
WorkList ID: 178576	Matrix Test	Water Chloride
Chloride-031424	Customer Sample	MW-01
WorkList Name :	Sample	P1747-03

14:50 100, 20/21 03/14/24 Raw Sample Relinquished by: Raw Sample Received by: Date/Time

Reviewed By:Iwona On:3/14/2024 4:06:24 PM Inst Id :Titrametric LB :LB129890 G  $\sim$ P 03/14/24 Raw Sample Relinquished by: Raw Sample Received by: Date/Time

Page 1 of 1



Analysis Method:	1664A
Test:	Non-Polar Material
Run Number:	LB129904
Analysis Date:	03/15/2024
BalanceID:	WC SC-6
OvenID:	EXT OVEN-3

ANALYST:	jignesh
REVIEWED BY:	Iwona
Extraction Date:	03/15/2024
Extration IN Time:	13:50
Extration OUT Time:	14:20
Thermometer ID:	EXT OVEN#3

Disł #	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	LB129904BL	LB129904BL	WATER	1.3	1000	100	3.0142	3.0142	3.02	3.0143	3.0143	0.0001	0.1
2	LB129904BS	LB129904BS	WATER	1.3	1000	100	2.8563	2.8563	3.01	2.8730	2.8730	0.0167	16.7
3	LB129904BSD	LB129904BSD	WATER	1.3	1000	100	2.9988	2.9988	3.03	3.0158	3.0158	0.0170	17
4	P1747-03	MW-01	WATER	1.3	1000	100	3.0654	3.0654	3.04	3.0656	3.0656	0.0002	0.2



#### QC Batch# LB129904 Test: Non-Polar Material Analysis Date: 03/15/2024

#### Chemicals Used:

Chemical Name	Chemical Lot #
HEXANE	W3076
pH Paper 0-14	M4909
Sodium Sulfate	EP2458
1:1 HCL	WP106917
Silica Gel	W2839
Sand	NA

#### Standards Used:

Standard Name	Amount Used	Standard Lot #
LCSW	5.00 ML	WP105918
LCSWD	5.00 ML	WP105919
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 :	15:41
1.0000 gram Balance:	1.0005	(0.9950-1.0050)	In ?	Time1:	15:00				
Bal Check Time:	14:00	_	Out	OVEN TEMP1:	70 °C	Dessicator	Time	Out1:	16:25
			Out	Time1:	15:40				

#### After Analysis

0.0020 gram Balance:	0 0019	(0 0018-0 0022)	In OVEN TEMP2 :	71 °C	Dessicator	Time In2 :	17 <b>:</b> 31
1.0000 gram Balance:	1.0004	(0.9950-1.0050)	In Time2:	17:00			
		_	Out OVEN TEMP2:	71 °C	Dessicator	Time Out2:	18:00
Bal Check Time:	18:01	_					
			Out Time2:	17:30			

		WORKLIST(Hai	WORKLIST(Hardcopy Internal Chain)	ADPRICA
WorkList Name :	WorkList Name: NON POLAR P1747	WorkList ID: 178633	Department : Wet-Chemistry	Date: 03-15-2024 13:37:46
Sample	Customer Sample	Matrix Test	Preservative Customer	Raw Sample Storage Collect Date Method Location
P1747-03 K MW-01	MW-01	Water Non-Polar Material		
				131 03/13/2024 1664A

03/13/2024 1664A

5 Date/Time 03/15/24 13+45 Raw Sample Received by:  $\Im 0/L WC_{j}$ Raw Sample Relinquished by:

Reviewed By:Iwona On:3/15/2024 2:44:49 PM Inst Id :WC SC-3 LB :LB129904 3 2 N PC Raw Sample Relinquished by: Date/Time 03115/24 Raw Sample Received by:

Page 1 of 1

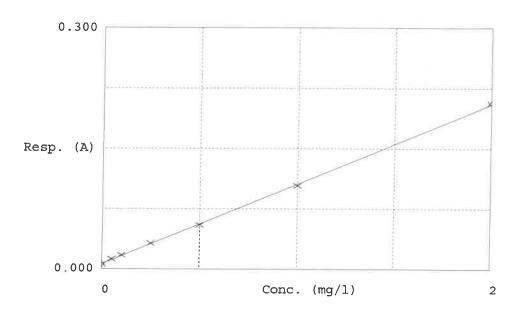
***********					LB 12	Reviewed By:Sohil On:3/18/2024 11:46:18 AM ==Inst Id :Konelab 20
Test results		Aquakem 7		<b>_</b>	Page:	<u>LB :LB129910</u>
			CONSULTING ( ield Street	GROUP INC , Mountainside,	NJ 07092	
3/15/2024 14:3	2	Reviewed :	by : <u>_RM_</u>	Instrument	ID : Kone	elab
Test: Phenolic	Cs-					
Sample Id	Result	Dil. 1 +	Response	Errors		
ICV1 ICB1 CCV1 CCB1 PB159616BL PB159616BS IDOC-1 IDOC-2 IDOC-3 IDOC-4 P1747-03 P1747-03DUP	0.985 -0.004 -0.007 0.967 0.974	0.0 0.0 0.0	0.103 0.006 0.104 0.006 0.103 0.103 0.103 0.102 0.102 0.102 0.103 0.006 0.006			
P1747-03MS P1747-03MSD CCV2 CCB2	0.988 0.982	0.0 0.0	0.105 0.104 0.106 0.006			
N Mean SD CV%	16 0.609 0.4899 80.49					

™8	80
- V 'O	80

Aquakem v. 7.2AQ1 Results from time period: Fri Mar 15 13:30:07 2024 Fri Mar 15 14:29:20 2024 Sam/Ctr/c/ Test short I Test type Result Sample Id Result unit Result date and time Stat 0.00PPM Phenolics- P Α -0.0055 mg/l 3/15/2024 11:47:40 0.05PPM Α Phenolics- P 0.061 mg/l 3/15/2024 11:47:41 0.1PPM Α Phenolics- P 0.1089 mg/l 3/15/2024 11:47:42 0.25PPM Α Phenolics- P 0.2579 mg/l 3/15/2024 11:47:43 0.50PPM Phenolics- P Α 0.486 mg/l 3/15/2024 11:47:44 1.0PPM Α Phenolics- P 0.9797 mg/l 3/15/2024 11:47:45 2.0PPM Α Phenolics- P 2.0119 mg/l 3/15/2024 11:47:46 ICV1 S Phenolics- P 0.9682 mg/l 3/15/2024 13:30:08 S ICB1 Phenolics- P -0.0043 mg/l 3/15/2024 13:30:09 CCV1 S Phenolics- P 0.9849 mg/l 3/15/2024 13:30:12 CCB1 S Phenolics- P -0.004 mg/l 3/15/2024 13:30:14 PB159616BL S Phenolics- P -0.0066 mg/l 3/15/2024 13:30:15 S PB159616BS Phenolics- P 0.967 mg/l 3/15/2024 13:30:17 S IDOC-1 Phenolics- P 0.9744 mg/l 3/15/2024 13:40:17 S IDOC-2 Phenolics- P 0.9632 mg/l 3/15/2024 13:40:18 IDOC-3 S Phenolics- P 0.963 mg/l 3/15/2024 13:40:19 S IDOC-4 Phenolics- P 0.9698 mg/l 3/15/2024 13:40:20 P1747-03 S Phenolics- P -0.0035 mg/l 3/15/2024 14:29:10 P1747-03DUP S Phenolics- P -0.0007 mg/l 3/15/2024 14:29:11 P1747-03MS S Phenolics- P 0.9876 mg/l 3/15/2024 14:29:13 P1747-03MSD S Phenolics- P 0.9823 mg/l 3/15/2024 14:29:16 CCV2 S Phenolics- P 0.9993 mg/l 3/15/2024 14:29:17 CCB2 S Phenolics- P -0.0028 mg/l 3/15/2024 14:29:20

Calibration results	Aquakem 7.2AQ1	AM ======linst ld :Konelab 20 Page : <u>LB 129910</u>
	CHEMTECH CONSULTING GROUP INC 284 Sheffield Street, Mountain	nside, NJ 07092
3/15/2024 11:51	Reviewed by : <u>RM</u> Inst:	rument ID : Konelab
Test Phenolics-		
Accepted	3/15/2024 11:51	
Factor Bias	10.07 0.006	
Coeff. of det.	0.999669	

Errors



	Calibrator	Response	Calc. con.	Conc.	Errors	
1	0.00PPM	0.006	-0.0055	0.0000	-	
2	Phenol-2	0.013	0.0610	0.0500	22.0	
3	Phenol-2	0.017	0.1089	0.1000	8.9	
4	Phenol-2	0.032	0.2579	0.2500	3.2	
5	Phenol-2	0.055	0.4860	0.5000	-2.8	
6	Phenol-2	0.104	0.9797	1.0000	-	
7	Phenol-2	0.206	2.0119	2.0000	-2.0	
					0.6	

Reviewed By:Sohil On:3/18/2024 11:46:18



SUPERVISO	R: Iwona
ANALYS	<b>F:</b> jignesh
Date	<b>e:</b> <u>03/15/2024</u>
Run Number	<b>r:</b> LB129917
24 15:00 BalanceII	D: WC SC-6
24 16:30 <b>OvenII</b>	D: WC OVEN-1
4 11:00 FilterII	<b>b:</b> 17416528
4 13:00 ThermometerII	D: WET OVEN#1

BalanceID: WC SC-6	03/15/2024 15:00	104 °C	TEMP1 OUT:	03/15/2024 14:00	103 °C	TEMP1 IN:
OvenID: WC OVEN-1	03/15/2024 16:30	104 °C	TEMP2 OUT:	03/15/2024 15:30	103 °C	TEMP2 IN:
<b>FilterID:</b> 17416528	03/18/2024 11:00	103 °C	TEMP3 OUT:	03/18/2024 09:30	104 °C	TEMP3 IN:
ThermometerID: WET OVEN#1	03/18/2024 13:00	103 °C	TEMP4 OUT:	03/18/2024 11:30	104 °C	TEMP4 IN:

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	LB129917BL	LB129917BL	1.3526	1.3526	100	1.3527	1.3527	1.3527	0.0001	1
2	LB129917BS	LB129917BS	1.5847	1.5847	100	1.6378	1.6378	1.6378	0.0531	531
3	P1732-01	DRAIN-WATER-TANK-1	1.4160	1.4160	500	1.4272	1.4272	1.4272	0.0112	22.4
4	P1745-02	COMP	1.4173	1.4173	100	1.4486	1.4486	1.4486	0.0313	313
5	P1747-03	MW-01	1.4074	1.4074	1000	1.4646	1.4646	1.4646	0.0572	57.2
6	P1747-03DUP	MW-01DUP	1.4011	1.4011	1000	1.4580	1.4580	1.4580	0.0569	56.9
7	P1775-01	027-OUTFALL	1.4219	1.4219	1000	1.6826	1.6826	1.6826	0.2607	260.7

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) =	С - В			
Result mg/L =	<b>D *</b>	1000	*	1000
	A			

WORKLIST(Hardcopy Internal Chain)

WorkList ID: 178638

tss p1775 WorkList Name :

tipper ch

WORKLIST NAME :	tss p1775	WorkList ID :	0: 178638	Department :	Department : Wet-Chemistry	Da	Date: 03-18-2024 07:45:44	24 07:45:44
Sample	Customer Sample	Matrix Test	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date Method	Method
P1732_01	DDAIN MATER TATIS							
	UTAIN-WAI EK- IANK-1	Water TSS	TSS	Cool 4 deg C	MA.IO01	13.1	10000010100	
D1745_02	CINCO			,		2	(1 (1492)MS 4707/71 /co	SMZ54U D
# 70-01 I	COMP	Water	TSS	Cool 4 deg C	ARAM01	101	* COCI 0 1/ CO	0.0100
P1747-03/ MINL01	MVALD1	146-1				- 17	U 0202024 SIM2540 D	SIM254U D
5		vvater	ISS	Cool 4 deg C	LIRO01	131	10/00/01/00	0110110
P1775-01	P1775-01 T 027 OLITEALL					2	U U22024 200220 0	U UP02110
		Water	TSS	Cool 4 deg C	MINO01	141	10/0/01/00	CHOL OF
e.							(1 0462/MC 4202/01 /co	

00:20 3 20 Date/Time (3))&)) Raw Sample Relinquished by: Raw Sample Received by:

Reviewed By:Iwona On:3/18/2024 11:29:12 AM Inst Id :WC SC-3 LB :LB129917 13:50 3 Sp Raw Sample Relinquished by: Date/Time 0311212 Raw Sample Received by:

115

4

Page 1 of 1

On:3/20/2024 2:47:23 LB129942 РМ =====Inst Id :Konelab 20 Test results Aquakem 7.2AQ1 LB :LB129942 Page: CHEMTECH CONSULTING GROUP INC 284 Sheffield Street, Mountainside, NJ 07092 Reviewed by : <u>12</u> Instrument ID : Konelab 3/19/2024 12:29 ------Test: TKN-NH3 Sample Id Dil. 1 + Response Errors Result ICV1 4.806 0.0 0.899 0.0 ICB1 0.046 0.027 CCV1 0.0 4.807 0.899 979, (50-150) 12 3/11/24 CCB1 0.052 0.0 0.028 RL CHECK 0.484 0.0 0.107 PB159614BL 0.043 0.0 0.026 PB159614BS 0.0 4.832 0.903 P1747-03 1.025 0.0 0.206 P1747-03DUP 1.032 0.0 0.207 P1747-03MS 5.885 0.0 1.096 P1747-03MSD 5.922 0.0 1.103 P1775-01 0.330 0.0 0.079 P1788-01 15.190 0.0 Init abs., Test limit hig 2.801 P1788-02 2.413 0.0 0.460 CCV2 4.945 0.0 0.924 CCB2 0.062 0.0 0.030 P1788-01DLX2 7.907 0.0 1.467 CCV3 4.962 0.0 0.927 CCB3 0.015 0.0 0.021 N 10

Reviewed By:Sohil

TA .	19
Mean	3.408
SD	3.8671
CV%	113.46

Aquakem v. 7.2AQ1

Results from time period:

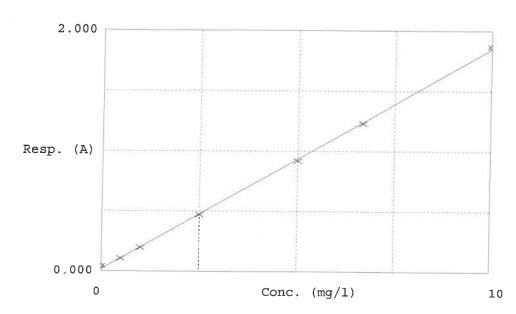
Tue Mar 19 10:19:22 2024

Tue Mar 19 12:26:02	2024						
Sample Id	Sam/Ctr/o	A Test short	n Test type	Result	Result unit	Result date and time	Stat
0.0PPM	А	TKN-NH3	Р	0.1345	mg/l	3/19/2024 10:19:22	
0.5PPM	А	TKN-NH3	Р	0.4788	mg/l	3/19/2024 10:19:23	
1.0PPM	А	TKN-NH3	Р	0.9701	mg/l	3/19/2024 10:19:24	
2.5PPM	А	TKN-NH3	Р	2.47	mg/l	3/19/2024 10:19:25	
5.0PPM	А	TKN-NH3	Р	4.9125	mg/l	3/19/2024 10:19:26	
6.7PPM	Α	TKN-NH3	Р	6.6032	mg/l	3/19/2024 10:19:27	
10.0PPM	Α	TKN-NH3	Р	10.0976	mg/l	3/19/2024 10:19:28	
ICV1	S	TKN-NH3	Р	4.8056	mg/l	3/19/2024 11:15:39	
ICB1	S	TKN-NH3	Ρ	0.0464	mg/l	3/19/2024 11:15:41	
CCV1	S	TKN-NH3	Р	4.807	mg/l	3/19/2024 11:15:43	
CCB1	S	TKN-NH3	Ρ	0.0518	mg/l	3/19/2024 11:15:45	
RL CHECK	S	TKN-NH3	Р	0.4837	mg/l	3/19/2024 11:15:48	
PB159614BL	S	TKN-NH3	Р	0.043	mg/l	3/19/2024 11:15:49	
PB159614BS	S	TKN-NH3	Ρ	4.8321	mg/l	3/19/2024 11:26:21	
P1747-03	S	TKN-NH3	Р	1.0248	mg/l	3/19/2024 11:26:23	
P1747-03DUP	S	TKN-NH3	Р	1.0323	mg/l	3/19/2024 11:26:25	
P1747-03MS	S	TKN-NH3	Р	5.8849	mg/l	3/19/2024 11:26:27	
P1747-03MSD	S	TKN-NH3	Р	5.922	mg/l	3/19/2024 11:26:29	
P1775-01	S	TKN-NH3	Р	0.3296 (	ng/l	3/19/2024 11:35:22	
P1788-01	S	TKN-NH3	Ρ	15.1904 ı	ng/l	3/19/2024 11:35:23	
P1788-02	S	TKN-NH3	Р	2.4127 r	ng/l	3/19/2024 11:35:24	
CCV2	S	TKN-NH3	Р	4.9445 r	ng/l	3/19/2024 11:35:25	
CCB2	S	TKN-NH3	Р	0.0616 r	ng/l	3/19/2024 11:35:26	
P1788-01DLX2	S	TKN-NH3	Р	7.907 r	ng/l	3/19/2024 12:25:56	
CCV3	S	TKN-NH3	Р	4.9621 r	ng/l	3/19/2024 12:25:59	
CCB3	6	TKN-NH3	Р	0.0153 r	ng/l	3/19/2024 12:26:02	

calibration resul	 ts	Aquakem 7.2AQ1	PM ====================================
		CHEMTECH CONSULTING GROUP INC 284 Sheffield Street, Mountainsic	de, NJ 07092
3/19/2024 10:27		Reviewed by : <u>12</u> Instrume	ent ID : Konelab
Test TKN-NH3			
Accepted	3/19/202	4 10:27	
Factor Bias	5.459 0.018		
Coeff. of det.	0.999498		

Reviewed By:Sohil On:3/20/2024 2:47:23

Errors



	Calibrator	Response	Calc. con.	Conc.	fk Errors
1	0.00PPM	0.043	0.1345	0.0000	~
2	TKN-10	0.106	0.4788	0.5000	-4.2
3	TKN-10	0.196	0.9701	1.0000	-3.0
4	<b>TKN-10</b>	0.471	2.4700	2.5000	-1.2
5	TKN-10	0.918	4.9125	5.0000	-(.8
6	TKN-10	1.228	6.6032	6.6667	-1.4
7	<b>TKN-10</b>	1.868	10.0976	10.0000	1.0
					12
					3/19/24

# CHEMITECH

SOP ID :	MSM4500-N Org C-TK	N-11							
SDG No :	N/A			Start I	Digest Date:	03/18/2024	Time : 12:4	Temp:	370 °C
Matrix :	WATER			End [	Digest Date:	03/18/2024	Time : 14:10	Temp :	375 °C
Pippete ID :	WC			Start Distil	lation Date:	03/18/2024	Time : 14:30	 <b>Temp</b> :	<u>150 °C</u>
Balance ID :	N/A			End Distil	ation Date:	03/18/2024	Time : <u>15:40</u>	<u>Temp :</u>	<u>160 °C</u>
Hood ID :	HOOD#2&3	Diges	tion tube II	<b>D:</b> M5216		Block Ther	mometer ID :	Therm#2(2	179)
Block ID :	WC-DIST-BLOCK-1	Filt	ter paper II	): N/A	F	rep Technici	an Signature:	12	
Weigh By :	N/A	1	pH Meter II	): N/A	_	Supervis	or Signature:	19	
Standared	Name		MLS USED		STD REI	F. # FROM L	.OG		
TKN CAL STD			50.0ML		WP10696	4			
TKN CCV STD			50.0ML		WP10696	5			
TKN ICV STD			50,0ML		WP10696	6			
TKN LCS STD			50.0ML		WP10696	7			
MS/MSD SPIK	E SOL.		0.25ML		WP10456	3			
Chemical	Used			ML/SAMPLE U	ISED	1	Lot Numbe	er	
TKN Digestion	Solution			10.0ML		WP105967			
TKN DISTILLA	TION BUFFER			10.0ML		WP106366			
H2SO4 0.04N				5.0ML		WP104780			
N/A				N/A		N/A			
N/A				N/A		N/A			
N/A				N/A		N/A			
N/A				V/A		N/A			
N/A				N/A		N/A			
N/A				N/A		N/A			
N/A				V/A		N/A			

#### Extraction Conformance/Non-Conformance Comments:

RL CHECK WP106965 , 10 ML

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
03/18/24 17:0	5 12 ()()	12 (W()
	Preparation Group	Analysis Group



#### Water TKN Preparation Sheet

## PB159614

Lab Sample ID	Client Sample ID	Initial Vol (ml)	Final Vol (ml)	pН	Sulfide	Oxidizing	Nitrate/ Nitrite	Comment	Prep Pos
P1747-03	MW-01	50	50	<2	N/A	N/A	N/A	N/A	N/A
P1747-03DUP	MW-01DUP	50	50	<2	N/A	N/A	N/A	N/A	N/A
P1747-03MS	MW-01MS	50	50	<2	N/A	N/A	N/A	N/A	N/A
P1747-03MSD	MW-01MSD	50	50	<2	N/A	N/A	N/A	N/A	N/A
P1775-01	027-OUTFALL	50	50	<2	N/A	N/A	N/A	N/A	N/A
P1788-01	PEZOMETER-200	50	50	<2	N/A	N/A	N/A	N/A	N/A
P1788-02	PEZOMETER-206	50	50	<2	N/A	N/A	N/A	N/A	N/A
PB159614BL	PBW614	50	50	<2	N/A	N/A	N/A	N/A	N/A
PB159614BS	LCS614	50	50	<2	N/A	N/A	N/A	N/A	N/A



#### Water Phenolics Preparation Sheet

## PB159616

SOP ID :	M420.1 & 9065-Pheno	olics-13								
SDG No :	N/A			Star	t Digest Date:	03/15/2024	Time : 11:30	Temp :	150 °C	
Matrix :	WATER			End	d Digest Date:	03/15/2024	Time : 12:30	Temp :	160 °C	
Pippete ID :	wc								-	
Balance ID :	N/A									
Hood ID :	HOOD#2	Diges	stion tube ID	: M5216		<b>Block Ther</b>	mometer ID :	WC CYANID	E	
Block ID :	WC-DIST-BLOCK-1	Fil	ter paper ID	: N/A	F		an Signature:	RM		
Weigh By :	RM		pH Meter ID	: N/A		Supervis	or Signature:	12		
Standared	Name		MLS USED		STD REI	F. # FROM L	OG			
LCSW			1.0ML	-	WP10690	6				
MS/MSD SPIK	E SOL.		1.0ML		WP10690	5				
PBW			50.0ML		W2606					
N/A			N/A		N/A					
N/A			N/A		N/A					
Chemical (	Used			ML/SAMPLE	USED		Lot Numbe	r		
pH Paper 0-14			N	/A		W3056				
CONC H2SO4			N	/A		M5211				
KI-starch pape	er		N	/A		W2965				
N/A			N	/A		N/A				
N/A			N	/A		N/A				
N/A			N	/A		N/A				
N/A		_	N	/A		N/A				
N/A	Alance ID : N/A hood ID : HOOD#2 hock ID : WC-DIST-BLOCK-1 eigh By : RM A A A A A A A A A A A A A		N/A			N/A				
N/A		_		/A		N/A				
N/A		_	N,	Ά		N/A				

#### **Extraction Conformance/Non-Conformance Comments:**

N/A		
Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
03/15/2024 12.	RM (WL)	RM (WO
	Preparation Group	Analysis Group



#### **Water Phenolics Preparation Sheet**

### PB159616

Lab Sample ID	Client Sample ID	Initial Vol (ml)	Final Vol (ml)	pH	Sulfide	Oxidizing	Nitrate/ Nitrite	Comment	Prep Pos
P1747-03	MW-01	50	50	<2	N/A	Negative	N/A	N/A	N/A
P1747-03DUP	MW-01DUP	50	50	<2	N/A	Negative	N/A	N/A	N/A
P1747-03MS	MW-01MS	50	50	<2	N/A	Negative	N/A	N/A	N/A
P1747-03MSD	MW-01MSD	50	50	<2	N/A	Negative	N/A	N/A	N/A
PB159616BL	PBW616	50	50	<2	N/A	Negative	N/A	N/A	N/A
PB159616BS	LCS616	50	50	<2	N/A	Negative	N/A	N/A	N/A

RM



### **Instrument ID:** DO METER

Revi	ew By	jignesh	Review	v On	3/19/2024 1:29	9:05 PM				
Supe	ervise By	lwona	Super	/ise On	3/19/2024 2:00	3/19/2024 2:00:09 PM				
SubE	Directory	LB12987	75 Test		CBOD5					
STD.	NAME	STD	REF.#							
ICAL S	Standard	N/A								
	tandard	N/A								
	standard	N/A								
CRI St	Standard	N/A N/A								
	tandard	N/A								
Chk St	andard	WP10	06941,W2977,WP105744,W29	913,W2914,W2976,V	WP106943,WP106942,WP106	529				
Sr#	SampleId		ClientID	QcType	Date	Comment	Operator	Status		
1	LB129875BL		LB129875BL	МВ	03/14/24 10:30		Rubina	ОК		
2	LB129875BS		LB129875BS	LCS	03/14/24 10:30		Rubina	ОК		
3	LB129875BSI	D1	LB129875BSD1	LCS	03/14/24 10:30		Rubina	ОК		
4	LB129875BSI	D2	LB129875BSD2	LCS	03/14/24 10:30		Rubina	ОК		
5	P1747-03		MW-01	SAM	03/14/24 10:30		Rubina	ОК		
6	P1747-03DUF	C	MW-01DUP	DUP	03/14/24 10:30		Rubina	ок		



## Instrument ID: IGN-1

	ew By	Nikita		Review On			3/14/2024 3:19:42 PM		
Supe	ervise By	Iwona		Supervise On		3/14/2024 3:22	2:49 PM		
SubE	Directory	ectory LB129879		Test		Flash Point			
STD.	NAME	STI	) REF.#						
ICAL S	tandard	N/A							
ICV St	andard	N/A							
CCV S	tandard	N/A							
ICSA S	itandard	N/A							
CRI Sta		N/A							
LCS St		N/A							
Chk St	andard	W30	30						
Sr#	SampleId		ClientID		QcType	Date	Comment	Operator	Status
1	ICV		ICV	I	ICV	03/14/24 12:45		Nikita	ОК
2	P1747-03		MW-01	5	SAM	03/14/24 13:15		Nikita	ОК
3	P1747-03DU	Р	MW-01DUP	[	DUP	03/14/24 13:45		Nikita	ОК



Instrument ID: SPECTROPHOTOMETER-1

Revi	iew By	Ru	bina	Rev	iew On	3/14/2024 2:	10:32 PM		
Supe	ervise By	lwo	ona	Sup	ervise On	3/14/2024 2:	11:21 PM		
Subl	Directory	LB	12988	1 Test	t	Hexavalent (	Chromium		
STD	. NAME		STD	REF.#					
ICV S CCV S ICSA S CRI St LCS S	Standard Standard Standard Standard tandard Standard tandard		N/A N/A N/A N/A N/A WP106	3949,WP106948,WP1069	946,WP106945,WP106	884,WP106542,WP106947,\	WP106952,WP106950,WP106951		
Sr#	Sampleld			ClientID	QcType	Date	Comment	Operator	Status
1	CAL1			CAL1	CAL	03/14/24 11:00		Rubina	ок
2	CAL2			CAL2	CAL	03/14/24 11:01		Rubina	ок
3	CAL3			CAL3	CAL	03/14/24 11:02		Rubina	ок
4	CAL4			CAL4	CAL	03/14/24 11:03		Rubina	ок
5	CAL5			CAL5	CAL	03/14/24 11:04		Rubina	ок
6	CAL6			CAL6	CAL	03/14/24 11:05		Rubina	ок
7	CAL7			CAL7	CAL	03/14/24 11:06		Rubina	ОК
8	ICV			ICV	ICV	03/14/24 11:07		Rubina	ок
9	ICB			ICB	ICB	03/14/24 11:08		Rubina	ОК
10	CCV1			CCV1	CCV	03/14/24 11:09		Rubina	ОК
11	CCB1			CCB1	ССВ	03/14/24 11:10		Rubina	ОК
12	RL Check			RL Check	SAM	03/14/24 11:11		Rubina	ОК
13	LB129881BI			LB129881BL	MB	03/14/24 11:12		Rubina	ок
14	LB129881B	S		LB129881BS	LCS	03/14/24 11:13		Rubina	ок
15	P1747-03			MW-01	SAM	03/14/24 11:14		Rubina	ок
16	P1747-03Dl	JP		MW-01DUP	DUP	03/14/24 11:15		Rubina	ок
17	P1747-03M	3		MW-01MS	MS	03/14/24 11:16	1ML WP106017+99.0ML SAMPLE	Rubina	ОК
18	P1747-03M	SD		MW-01MSD	MSD	03/14/24 11:17	1ML WP106017+99.0ML SAMPLE	Rubina	ок
19	CCV2			CCV2	CCV	03/14/24 11:18		Rubina	ОК



Instrument ID: SPECTROPHOTOMETER-1

Revie	ew By	Rub	oina	Review	On	3/14/2024 2:10	32 PM		
Supe	rvise By	lwo	na	Supervi	se On	3/14/2024 2:11:	21 PM		
SubD	irectory	LB1	12988	1 Test		Hexavalent Chr	omium		
STD.	NAME		STD	REF.#					
ICAL St	tandard		N/A						
ICV Sta	andard		N/A						
CCV St	andard		N/A						
ICSA St	tandard		N/A						
CRI Sta	andard		N/A						
LCS Sta	andard		N/A						
Chk Sta	andard		WP10	6949,WP106948,WP106946,W	P106945,WP1068	84,WP106542,WP106947,WP1	06952,WP106950,WP106951		
20	CCB2	1		CCB2	ССВ	03/14/24 11:19		Rubina	ок
								<u>i</u>	<u> </u>



## Instrument ID: WC SC-3

	ew By	jignesh		Review On		3/15/2024 9:40:06 AM 3/15/2024 10:19:46 AM		
Supe	ervise By	lwona	51	ipervise On	3/15/2024 10:	19:46 AM		
SubE	SubDirectory LB129888			st	TS			
STD.	NAME	STI	) REF.#					
ICAL S	tandard	N/A						
ICV St	andard	N/A						
CCV S	tandard	N/A						
	standard	N/A						
CRI Sta		N/A						
LCS St		N/A						
Chk St	andard	N/A						
Sr#	Sampleld		ClientID	QcType	Date	Comment	Operator	Status
1	LB129888BL		LB129888BL	MB	03/14/24 11:00		jignesh	ОК
2	P1747-03		MW-01	SAM	03/14/24 11:00		jignesh	ОК
3	P1747-03DUF	MW-01DUP DUP		DUP	03/14/24 11:00		jignesh	ОК



## Instrument ID: TITRAMETRIC

Revi	ew By	Rubina	Rev	view On	3/14/2024 4:06	5:10 PM				
Supe	ervise By	lwona	Sup	pervise On	3/14/2024 4:06:24 PM					
Subl	Directory	LB12989	00 Tes	t	Chloride					
STD.	. NAME	STD	REF.#							
ICV S CCV S ICSA S CRI St LCS S	Standard tandard Standard Standard tandard tandard tandard	N/A N/A N/A N/A N/A WP10	)6963,WP105287,WP106	962,W3075						
Sr#	SampleId		ClientID	QcType	Date	Comment	Operator	Status		
1	LB129890BL		LB129890BL	MB	03/14/24 15:15		Iwona	ок		
2	LB129890BS		LB129890BS	LCS	03/14/24 15:18		Iwona	ОК		
3	P1747-03		MW-01	SAM	03/14/24 15:22		Iwona	ок		
4	P1747-03DUI	C	MW-01DUP	DUP	03/14/24 15:25		lwona	ОК		
5	P1747-03MS		MW-01MS	MS	03/14/24 15:28		lwona	ок		
6	P1747-03MSD MW-01MS		MW-01MSD	MSD	03/14/24 15:31		lwona	ОК		



## Instrument ID: WC SC-3

Revi	ew By ji	ignesh	Review	On	3/15/2024 1:47	:56 PM			
Supe	ervise By	wona	Supervi	se On	3/15/2024 2:44	:49 PM			
SubE	Directory L	_B12990	4 Test	Test Non-Polar Material					
STD.	NAME	STD	REF.#						
ICAL S	itandard	N/A							
ICV St		N/A							
	tandard Standard	N/A N/A							
CRI St		N/A							
LCS St	tandard	N/A							
Chk St	andard	W3076	6,M4909,EP2458,WP106917,W	/2839,NA,WP1059	918,WP105919,NA				
Sr#	SampleId		ClientID	QcType	Date	Comment	Operator	Status	
1	LB129904BL		LB129904BL	MB	03/15/24 15:00		jignesh	ок	
2	LB129904BS		LB129904BS	LCS	03/15/24 15:00		jignesh	ОК	
3	LB129904BSD		LB129904BSD	LCSD	03/15/24 15:00		jignesh	ок	
4	P1747-03		MW-01	SAM	03/15/24 15:00		jignesh	ОК	



Instrument ID: KONELAB

Revi	ew By	lwo	ona		Review (	On	3/18/2024 11	:45:03 AM		
Supe	ervise By	Sol	hil		Supervis	e On	3/18/2024 11	:46:18 AM		
Subl	Directory	LB	12991	0	Test		Phenolics			
STD.	NAME		STD	REF.#						
ICV S CCV S ICSA S CRI St LCS S	Standard tandard Standard Standard andard tandard tandard		WP100 WP100 N/A N/A WP100 WP100	6979 6978	P106980					
Sr#	SampleId			ClientID		QcType	Date	Comment	Operator	Status
1	0.00PPM			0.00PPM		CAL1	03/15/24 11:47		Rubina	ОК
2	0.05PPM			0.05PPM		CAL2	03/15/24 11:47		Rubina	ОК
3	0.1PPM			0.1PPM		CAL3	03/15/24 11:47		Rubina	ОК
4	0.25PPM			0.25PPM		CAL4	03/15/24 11:47		Rubina	ОК
5	0.50PPM			0.50PPM		CAL5	03/15/24 11:47		Rubina	ОК
6	1.0PPM			1.0PPM		CAL6	03/15/24 11:47		Rubina	ОК
7	2.0PPM			2.0PPM		CAL7	03/15/24 11:47		Rubina	ОК
8	ICV1			ICV1		ICV	03/15/24 13:30		Rubina	ОК
9	ICB1			ICB1		ICB	03/15/24 13:30		Rubina	ОК
10	CCV1			CCV1		CCV	03/15/24 13:30		Rubina	ОК
11	CCB1			CCB1		ССВ	03/15/24 13:30		Rubina	ОК
12	PB159616BL	-		PB159616BL	-	MB	03/15/24 13:30		Rubina	ОК
13	PB159616B	3		PB159616B	6	LCS	03/15/24 13:30		Rubina	ОК
14	IDOC-1			IDOC-1		LCS	03/15/24 13:40		Rubina	ОК
15	IDOC-2			IDOC-2		LCS	03/15/24 13:40		Rubina	ОК
16	IDOC-3			IDOC-3		LCS	03/15/24 13:40		Rubina	ОК
17	IDOC-4			IDOC-4		LCS	03/15/24 13:40		Rubina	ОК
18	P1747-03			MW-01		SAM	03/15/24 14:29		Rubina	ОК
19	P1747-03DU	P		MW-01DUP		DUP	03/15/24 14:29		Rubina	ОК
20	P1747-03MS	;		MW-01MS		MS	03/15/24 14:29		Rubina	ок



Instrument ID: KONELAB

Review By Iwona			Review O	n	3/18/2024 11:4	5:03 AM			
Supe	ervise By	Sohil		Supervise On		3/18/2024 11:4	3/18/2024 11:46:18 AM		
SubE	Directory	LB1299	10	Test		Phenolics	Phenolics		
STD. NAME STD REF.#									
ICAL S	Standard	WP1	06977						
ICV St	tandard	WP1	06979						
CCV S	Standard	WP1	06978						
ICSA S	Standard	N/A							
CRI St	andard	N/A							
LCS St	tandard	WP	106906						
Chk St	tandard	WP1	04400,WP104401,W	P106980					
21 P1747-03MSD MW-01M		MW-01MSD		MSD	03/15/24 14:29		Rubina	ОК	
22 CCV2 CCV2		CCV2		CCV	03/15/24 14:29		Rubina	ОК	
23 CCB2 CCB2 CCB 03			03/15/24 14:29		Rubina	ОК			



## Instrument ID: WC SC-3

Review By jignesh		Review C	Dn	3/18/2024 11:2	6:46 AM			
Supe	Supervise By Iwona		Supervise	Supervise On		3/18/2024 11:29:12 AM		
SubE	SubDirectory LB129917		7 Test	Test				
STD. NAME STD REF.#		REF.#						
ICAL S	tandard	N/A						
ICV St		N/A						
	tandard	N/A						
	Standard	N/A						
CRI St		N/A N/A						
Chk St		N/A						
Sr#	SampleId		ClientID	QcType	Date	Comment	Operator	Status
1	LB129917BL		LB129917BL	MB	03/18/24 09:30		jignesh	ок
2	LB129917BS		LB129917BS	LCS	03/18/24 09:30		jignesh	ок
3	P1732-01		DRAIN-WATER-TANK	SAM	03/18/24 09:30		jignesh	ок
4 P1745-02			COMP	SAM	03/18/24 09:30		jignesh OK	
5	P1747-03		MW-01	SAM	03/18/24 09:30		jignesh	ок
6	P1747-03DUP		MW-01DUP	DUP	03/18/24 09:30		jignesh	ок
7	P1775-01		027-OUTFALL	SAM	03/18/24 09:30		jignesh	ОК



Instrument ID: KONELAB

Review By Iwona		Review	' On	3/20/2024 2:4	5:06 PM				
Supervise By Sohil		Supervise On		3/20/2024 2:4	7:23 PM				
SubDirectory LB129942		2 Test		TKN					
STD.	NAME		STD	REF.#					
ICV Standard WP CCV Standard WP ICSA Standard N/A CRI Standard N/A LCS Standard WF		WP10 WP10 N/A N/A WP10 WP10	6966 6965	VP106383					
Sr#	SampleId			ClientID	QcType	Date	Comment	Operator	Status
1	0.0PPM			0.0PPM	CAL1	03/19/24 10:19		Iwona	ОК
2	0.5PPM			0.5PPM	CAL2	03/19/24 10:19		Iwona	ОК
3	1.0PPM			1.0PPM	CAL3	03/19/24 10:19		Iwona	ОК
4	2.5PPM			2.5PPM	CAL4	03/19/24 10:19		Iwona	ОК
5	5.0PPM			5.0PPM	CAL5	03/19/24 10:19		Iwona	ОК
6	6.7PPM			6.7PPM	CAL6	03/19/24 10:19	10:19		ОК
7	10.0PPM			10.0PPM	CAL7	03/19/24 10:19		Iwona	ОК
8	ICV1			ICV1	ICV	03/19/24 11:15		Iwona	ОК
9	ICB1			ICB1	ICB	03/19/24 11:15		Iwona	ок
10	CCV1			CCV1	CCV	03/19/24 11:15		Iwona	ОК
11	CCB1			CCB1	ССВ	03/19/24 11:15		Iwona	ОК
12	RL			RL	SAM	03/19/24 11:15		Iwona	ок
13	PB159614BL	-		PB159614BL	MB	03/19/24 11:15		Iwona	ОК
14	PB159614BS	6		PB159614BS	LCS	03/19/24 11:26		Iwona	ОК
15	15 P1747-03			MW-01	SAM	03/19/24 11:26		Iwona	ОК
16	16 P1747-03DUP		MW-01DUP	DUP	03/19/24 11:26		Iwona	ОК	
17	17 P1747-03MS		MW-01MS	MS	03/19/24 11:26	24 11:26		ОК	
18	18 P1747-03MSD			MW-01MSD	MSD	03/19/24 11:26		Iwona	ОК
19	19 P1775-01			027-OUTFALL	SAM	03/19/24 11:35		Iwona	ОК
20	P1788-01			PEZOMETER-200	SAM	03/19/24 11:35		Iwona	ОК



Instrument ID: KONELAB

Review By Iwona Supervise By Sohil		lwona	Review	On	3/20/2024 2:45	5:06 PM		
		Sohil	Supervise On		ise On 3/20/2024 2:47:23 PM			
Subl	Directory	LB129	942 Test		TKN			
STD.	. NAME	ST	D REF.#					
ICAL S	Standard	WF	106964					
ICV S	tandard	WF	106966					
	Standard		106965					
	Standard	N/A						
	tandard itandard	N/A	°106967					
	tandard		WP105476,WP106381,WP106382,WP106383					
			,					
21	P1788-02		PEZOMETER-206	SAM	03/19/24 11:35		Iwona	ОК
22	CCV2		CCV2 CCV		03/19/24 11:35		Iwona	ОК
23	23 CCB2		CCB2	ССВ	03/19/24 11:35		Iwona	ОК
24 P1788-01DL			PEZOMETER-200D	L SAM	03/19/24 12:25		Iwona	ОК
25	25 CCV3		CCV3	CCV	03/19/24 12:25		Iwona	ОК
26	26 CCB3		CCB3	ССВ	03/19/24 12:26		Iwona	ОК



## Instrument ID:

Revie	ew By		Review (	On					
Supervise By		Supervis	Supervise On						
STD.	NAME	STD	REF.#						
ICAL Standard									
ICV Standard									
CCV S	tandard								
ICSA S	itandard								
CRI St	andard								
LCS St	andard								
Chk Standard									
Sr# SampleId ClientID		ClientID	QcType	Date	Comment	Operator	Status		



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

Order ID :	P1747
Test :	CBOD5,Chloride,Flash Point,Hexavalent Chromium,Non-Polar Material,Phenolics,TKN,Total Nitrogen,TS,TSS
Prepbatch ID :	PB159614,PB159616,
Sequence ID/Qc B	tch ID: LB129875,LB129879,LB129881,LB129888,LB129890,LB129904,LB129910,LB129917,LB129942,LB1

#### Standard ID :

EP2458,WP104400,WP104401,WP104563,WP104564,WP104780,WP105287,WP105476,WP105703,WP105744,WP1 05917,WP105918,WP105919,WP105967,WP106017,WP106018,WP106366,WP106367,WP106368,WP106381,WP10 6382,WP106383,WP106529,WP106542,WP106884,WP106905,WP106906,WP106917,WP106941,WP106942,WP106 943,WP106944,WP106945,WP106946,WP106947,WP106948,WP106949,WP106950,WP106951,WP106952,WP106966,WP106966,WP106967,WP106977,WP106978,WP106979,WP106980,

#### Chemical ID :

E3551,E3708,M4123,M4909,M5037,M5211,M5792,M5827,W1992,W1993,W2211,W2338,W2454,W2606,W2647,W265 1,W2652,W2653,W2654,W2663,W2666,W2676,W2697,W2712,W2784,W2788,W2839,W2858,W2900,W2913,W2914, W2942,W2965,W2976,W2977,W2979,W2983,W3004,W3049,W3056,W3059,W3073,W3075,W3076,W3080,

## CHEMTECH

284, Sheffield Street, Mountainside NJ 07092 (908) 789 - 8900

## Extractions STANDARD PREPARATION LOG

Recipe ID 3923 FROM	NAME Baked Sodium Sulfate 4000.00000gram of E3551 = Final C	NO. EP2458 Quantity: 400	Prep Date 03/08/2024 00.000 gram	Expiration Date 07/03/2024	<u>Prepared</u> <u>By</u> Rajesh Parikh	ScaleID Extraction_SC ALE_2 (EX-SC-2)	PipettelD None	Supervised By RUPESHKUMAR SHAH 03/08/2024
Recipe ID 672 FROM	NAME ammonia buffer for phenol 143.00000ml of W2676 + 16.90000g	<u>NO.</u> WP104400 ram of W19	Prep Date 09/28/2023 92 + 90.10000	Expiration Date 03/28/2024	Prepared By Iwona Zarych = Final Quantity	CALE_5 (WC <del>SC-5)</del>	PipettelD None	Sohil Jodhani 10/02/2023

## CHEMTECH

284, Sheffield Street, Mountainside NJ 07092 (908) 789 - 8900

## Wet Chemistry STANDARD PREPARATION LOG

Recipe ID 1935	NAME Potassium ferricyanide solution-phenol	<u>NO.</u> WP104401	Prep Date 09/28/2023	Expiration Date 03/28/2024	<u>Prepared</u> <u>By</u> Iwona Zarych	CALE_5 (WC	<u>PipetteID</u> None	Sohil Jodhani
<u>FROM</u>	8.00000gram of W2211 + 92.00000m	nl of W2606	= Final Quan	tity: 100.000 n	าไ	<del>SC-5)</del>		
<u>Recipe</u> <u>ID</u>	NAME	<u>NO.</u>	<u>Prep Date</u>	Expiration Date	<u>Prepared</u> <u>By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u> Sohil Jodhani

	_								Sohii Jodhani
	153	Ammonia Stock Std. (1000 ppm)	WP104563	10/06/2023	04/06/2024	Iwona Zarych	WETCHEM_S	None	
							CALE_5 (WC		10/10/2023
						·	<u>SC-5)</u>		
	FROM	3.81900gram of W1992 + 996.18100	mi of W260	o = ⊢inal Qua	antity: 1000.000	) mi			
ĺ									
I									

284, Sheffield Street, Mountainside NJ 07092 (908) 789 - 8900

Recipe ID 1895	NAME Ammonia Stock Std, 1000PPM-SS	<u>NO.</u> WP104564	Prep Date 10/06/2023	Expiration Date 04/06/2024	<u>Prepared</u> <u>By</u> Iwona Zarych	ScaleID WETCHEM_S CALE_5 (WC	<u>PipetteID</u> None	Sohil Jodhani
<u>FROM</u>	3.81900gram of W1993 + 996.18100	nl of W260	6 = Final Qua	antity: 1000.000	) ml	<del>SC-5)</del>		
Recipe				Expiration	<u>Prepared</u>			Supervised By

<u>Recipe</u>				<u>Expiration</u>	Prepared			<u>Supervised By</u>
ID	NAME	<u>NO.</u>	Prep Date	<u>Date</u>	<u>By</u>	<u>ScaleID</u>	<u>PipetteID</u>	Sohil Jodhani
1597	0.04 N H2SO4	<u>WP104780</u>	10/18/2023	04/18/2024	lwona Zarych	None	WETCHEM_P	
							IPETTE_3	10/23/2023
FROM	1.00000ml of M5211 + 999.00000ml	of W2606 =	Final Quantit	y: 1000.000 m	N		(WC) I	

284, Sheffield Street, Mountainside NJ 07092 (908) 789 - 8900

#### Wet Chemistry STANDARD PREPARATION LOG

Recipe ID 1837 FROM	NAME Chloride Blank 0.10000gram of W2647 + 999.90000	<u>NO.</u> WP105287 ml of W2600	Prep Date 11/13/2023 6 = Final Qua		Prepared <u>By</u> Iwona Zarych ml	ScaleID WETCHEM_S CALE_5 (WC SC-5)	PipettelD None	Sohil Jodhani 11/16/2023
<b>Recipe</b> <u>ID</u> 740	NAME sodium nitroferricyanide for ammonia	<u>NO.</u> WP105476	Prep Date 11/28/2023	Expiration Date 05/28/2024	Prepared By Rubina Mughal	ScaleID WETCHEM_S CALE_5 (WC	<u>PipetteID</u> None	<u>Supervised By</u> Iwona Zarych 12/05/2023

<del>SC-5)</del>

FROM 0.05000gram of W2666 + 99.95000ml of W2606 = Final Quantity: 100.000 ml

284, Sheffield Street, Mountainside NJ 07092 (908) 789 - 8900

#### Wet Chemistry STANDARD PREPARATION LOG

Recipe ID 3890 FROM	NAME Chloride Stock Std - 10000ppm 16.48500gram of M4123 + 985.0000	<u>NO.</u> WP105703 0ml of W260			Prepared By Rubina Mughal 0 ml	ScaleID WETCHEM_S CALE_5 (WC <del>SC-5)</del>	PipettelD None	Supervised By Iwona Zarych 12/14/2023
<u>Recipe</u> <u>ID</u> 1841	NAME Sulfuric Acid, 1N	<u>NO.</u> WP105744	Prep Date 12/15/2023	Expiration Date 06/15/2024	<u>Prepared</u> <u>By</u> Rubina Mughal	<u>ScaleID</u> None	PipettelD WETCHEM_F IPETTE_3	Supervised By Iwona Zarych 12/15/2023

(WC)

2.80000ml of M5037 + 97.20000ml of W2606 = Final Quantity: 100.000 ml FROM

284, Sheffield Street, Mountainside NJ 07092 (908) 789 - 8900

Recipe ID 2456	NAME COD Stock std, 1000ppm	<u>NO.</u> WP105917	Prep Date 12/27/2023	Expiration Date 01/03/2024	Prepared By Iwona Zarych	ScaleID WETCHEM_S CALE_5 (WC	<u>PipetteID</u> None	Sohil Jodhani 01/03/2024
<u>FROM</u>	0.08500gram of W2784 + 100.00000	nl of W260	i = Final Qua	antity: 100.000	nl	<u>SC-5)</u>		
Recipe				Expiration	Prepared			Supervised By

<b>Recipe</b>				Expiration	Prepared			Supervised By
<u>ID</u>	NAME	<u>NO.</u>	Prep Date	<u>Date</u>	<u>By</u>	<u>ScaleID</u>	PipetteID	Sohil Jodhani
2457	COD Stock std-SS, 1000ppm	<u>WP105918</u>	12/27/2023	01/03/2024	Iwona Zarych	WETCHEM_S	None	
						CALE_5 (WC <del>SC-5)</del>		01/03/2024
FROM	0.08500gram of W2338 + 100.00000	ml of W260	6 = Final Qua	antity: 100.000	ml	30-3)		

284, Sheffield Street, Mountainside NJ 07092 (908) 789 - 8900

Recipe ID 2458 FROM	NAME COD CCV std, 50ppm 9.50000ml of W2606 + 0.50000ml of	<u>NO.</u> WP105919 WP105917		01/03/2024	Prepared By Iwona Zarych	<u>ScaleID</u> None	PipetteID WETCHEM_P IPETTE_3 (WC)	Sohil Jodhani 01/03/2024
Recipe           ID           619           FROM	NAME           TKN digestion solution           134.00000gram of W2983 + 134.000           1000.000 ml	<u>NO.</u> WP105967 00ml of M52	Prep Date 01/03/2024 211 + 7.30000	Expiration Date 07/03/2024 Ogram of W269	-	<u>ScaleID</u> WETCHEM_S CALE_5 (WC <del>SC-5)</del> nl of W2606 = F	PipetteID None	Sohil Jodhani 01/03/2024

284, Sheffield Street, Mountainside NJ 07092 (908) 789 - 8900

#### Wet Chemistry STANDARD PREPARATION LOG

Recipe ID 1993 FROM	NAME HEXAVALENTCHROMIUM STOCK STD 1, 50PPM 0.14140gram of W2651 + 1000.0000	<u>NO.</u> WP106017 0ml of W260	<u>Prep Date</u> 01/09/2024 06 = Final Qu		Prepared By Rubina Mughal	ScaleID WETCHEM_S CALE_7 (WC 3C-6)	PipettelD None	Supervised By Iwona Zarych 01/09/2024
Recipe ID 1994	NAME HEXAVALENTCHROMIUM STOCK STD 2, 50PPM	<u>NO.</u> WP106018	<b>Prep Date</b> 01/09/2024	Expiration Date 07/09/2024	Prepared By Rubina Mughal	<u>ScaleID</u> WETCHEM_S CALE_7 (WC <del>SC-6)</del>	PipetteID None	Supervised By Iwona Zarych 01/09/2024

FROM 0.14140gram of W2652 + 1000.00000ml of W2606 = Final Quantity: 1000.000 ml

284, Sheffield Street, Mountainside NJ 07092 (908) 789 - 8900

Recipe ID 1338	NAME TKN DISTILLING BUFFER	<u>NO.</u> WP106366	Prep Date 01/31/2024		Prepared By Rubina Mughal	ScaleID WETCHEM_S CALE_4 (WC	<u>PipetteID</u> None	Supervised By Iwona Zarych 01/31/2024
<u>FROM</u>	0.47500L of W2606 + 25.00000gram	of W2454 ⊣	- 500.00000gr	am of W2942	= Final Quantity	<del>SC-4)</del> r: 1.000 L		
Recipe				Expiration	Prepared			Supervised By

Recipe				<b>Expiration</b>	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
1903	Phenol stock std, 1000PPM	<u>WP106367</u>	01/31/2024	07/31/2024	Rubina Mughal		None	
						CALE_5 (WC <del>SC-5)</del>		01/31/2024
FROM	1.00000gram of W2663 + 999.00000	ml of W260	6 = Final Qua	antity: 1000.000	) ml	30-3)		

284, Sheffield Street, Mountainside NJ 07092 (908) 789 - 8900

<u>Recipe</u> <u>ID</u> 1904	NAME Phenol stock std, 1000PPM-SS	<u>NO.</u> WP106368	Prep Date 01/31/2024		Prepared By Rubina Mughal	CALE_5 (WC	<u>PipetteID</u> None	Supervised By Iwona Zarych 01/31/2024
<u>FROM</u>	1.00000gram of W2858 + 999.00000	ml of W260	6 = Final Qua	antity: 1000.000	) ml	<del>SC-5)</del>		
Recipe				Expiration	Prepared			Supervised By

<b>Recipe</b>				Expiration	Prepared			Supervised By
<u>ID</u>	NAME	<u>NO.</u>	Prep Date	Date	<u>By</u>	<u>ScaleID</u>	PipettelD	Iwona Zarych
289	Sodium Hypochlorite for Ammonia	WP106381	02/01/2024	06/30/2024	Rubina Mughal	None	None	,
								02/05/2024
FROM	50.00000ml of W2606 + 50.00000ml	of W3073 =	= Final Quanti	ty: 100.000 m	l			
				-				

284, Sheffield Street, Mountainside NJ 07092 (908) 789 - 8900

Recipe ID 290	NAME Phenol reagent for Ammonia	<u>NO.</u> WP106382	Prep Date 02/01/2024		<u>Prepared</u> <u>By</u> Rubina Mughal	CALE_5 (WC	PipetteID None	Supervised By Iwona Zarych 02/05/2024
<u>FROM</u>	3.20000gram of W2942 + 8.30000gra	am of W266	3 + 88.80000	ml of W2606 =	Final Quantity:	<del>SC-5)</del> 100.000 ml		
Pacina				Expiration	Propared			Supervised By

<b>Recipe</b>				Expiration	Prepared			Supervised By
<u>ID</u>	NAME	<u>NO.</u>	Prep Date	<u>Date</u>	<u>By</u>	<u>ScaleID</u>	PipettelD	Iwona Zarych
635	EDTA BUFFER FOR AMMONIA	WP106383	02/01/2024	07/04/2024	Rubina Mughal	WETCHEM_S	None	2
						CALE_5 (WC <del>SC-5)</del>		02/05/2024
FROM	5.50000gram of W2942 + 950.00000	ml of W260	6 = Final Qua	antity: 1000.000	) ml	30-3)		

284, Sheffield Street, Mountainside NJ 07092 (908) 789 - 8900

<u>Recipe</u> <u>ID</u> 1571	NAME Sodium hydroxide, 1N	<u>NO.</u> WP106529	Prep Date 02/09/2024	Expiration Date 07/04/2024	<u>Prepared</u> <u>By</u> Iwona Zarych	ScaleID WETCHEM_S CALE_5 (WC	<u>PipetteID</u> None	Sohil Jodhani
<u>FROM</u>	4.00000gram of W2942 + 96.00000n	nl of W2606	= Final Quar	ntity: 100.000 n	nl	<del>SC-5)</del>		
<u>Recipe</u> ID	NAME	NO.	Prep Date	Expiration Date	<u>Prepared</u> Bv	ScaleID	PipetteID	Supervised By

	NAME 0.2N SULFURIC ACID	<u>NO.</u>	Prep Date		By Bubing Mushel	ScaleID	PipettelD	Iwona Zarych
922	0.2N SULFURIC ACID	<u>VVP100542</u>	02/12/2024	08/12/2024	Rubina Mughal	None	Glass Pipette-A	02/13/2024
FROM	5.60000ml of M5037 + 994.40000ml	of W2606 =	Final Quanti	ty: 1000.000 n	าไ			

284, Sheffield Street, Mountainside NJ 07092 (908) 789 - 8900

0.25000gram of W2979 + 50.00000ml of E3708 = Final Quantity: 50.000 ml	<u>Recipe</u> <u>ID</u> 114	NAME hexavalent chromium color reagent	<u>NO.</u> WP106884	<u>Prep Date</u> 03/08/2024	Expiration Date 03/15/2024	Prepared By Nikita Patel	ScaleID WETCHEM_S CALE_5 (WC	<u>PipetteID</u> None	Supervised By Iwona Zarych 03/08/2024
	<u>FROM</u>	0.25000gram of W2979 + 50.00000n	nl of E3708	= Final Quan	tity: 50.000 ml		<u>SC-5)</u>		

Recipe			(	Expiration	Prepared			Supervised By
<u>ID</u>	NAME	<u>NO.</u>	Prep Date	<u>Date</u>	<u>By</u>	<u>ScaleID</u>	PipetteID	Iwona Zarych
1478	Phenol Intermediate Std - 50PPM	WP106905	03/11/2024	04/11/2024	Rubina Mughal	None	WETCHEM_P	
							IPETTE_3	03/11/2024
FROM	47.50000ml of W2606 + 2.50000ml o	of WP10636	7 = Final Qua	ntity: 50.000 r	nl		(WC) I	

284, Sheffield Street, Mountainside NJ 07092 (908) 789 - 8900

Recipe ID 1635	NAME Phenol Intermediate Std Second Source-50PPM	<u>NO.</u> WP106906	Prep Date 03/11/2024	Expiration Date 04/11/2024	<u>Prepared</u> <u>By</u> Rubina Mughal	<u>ScaleID</u> None	PipettelD WETCHEM_P IPETTE_3	Supervised By Iwona Zarych 03/11/2024
<u>FROM</u>	47.50000ml of W2606 + 2.50000ml o	f WP10636	8 = Final Qua	ntity: 50.000 n	nl		(WC) '	
Recipe				Expiration	Prepared		D: (( )D	Supervised By

Recipe				Expiration	Prepared			Supervised by
ID	NAME	<u>NO.</u>	Prep Date	<u>Date</u>	<u>By</u>	<u>ScaleID</u>	PipettelD	Iwona Zarych
229	1:1 HCL	WP106917	03/13/2024	08/05/2024	Jignesh Parikh	None	None	
								03/13/2024
FROM	500.00000ml of M5792 + 500.00000	ml of W2606	6 = Final Qua	ntity: 1.000 L				

284, Sheffield Street, Mountainside NJ 07092 (908) 789 - 8900

<u>Recipe</u> <u>ID</u>	NAME	<u>NO.</u>	Prep Date	Expiration Date	<u>Prepared</u> <u>By</u>	<u>ScaleID</u>	<u>PipetteID</u>	Supervised By Iwona Zarych
127	BOD Dilution fluid	<u>WP106941</u>	03/14/2024	03/15/2024	Rubina Mughal	None	WETCHEM_P IPETTE_3 (WC)	03/19/2024
<u>FROM</u>	18.00000L of W2606 + 3.00000PILL	OW of W290	00 = Final Qu	antity: 18.000	L			
Recipe				Expiration	<u>Prepared</u>			Supervised By
<u>ID</u>	NAME	<u>NO.</u>	Prep Date	Date	<u>Βγ</u>	<u>ScaleID</u>	<u>PipetteID</u>	Iwona Zarych
129	Glutamic acid-glucose mix for BOD	<u>WP106942</u>	03/14/2024	03/15/2024	Rubina Mughal	WETCHEM_S CALE_7 (WC SC-6)	None	03/19/2024
<u>FROM</u>	0.15000gram of W2653 + 0.15000gra	am of W265	4 + 1000.000	00ml of W2606	i = Final Quanti		I	

284, Sheffield Street, Mountainside NJ 07092 (908) 789 - 8900

#### Wet Chemistry STANDARD PREPARATION LOG

Recipe ID 128			Prep Date 03/14/2024		<u>Prepared</u> <u>By</u> Rubina Mughal	<u>ScaleID</u> None	<u>PipetteID</u> None	Supervised By Iwona Zarych 03/19/2024
<u>FROM</u>	1.00000PILLOW of W3059 + 300.00	000ml of WF	P106941 = Fi	nal Quantity: 3	00.000 ml			
	1							
<u>Recipe</u> <u>ID</u>	NAME	<u>NO.</u>	Prep Date	Expiration Date	<u>Prepared</u> <u>By</u>	<u>ScaleID</u>	<u>PipettelD</u>	Supervised By

WETCHEM\_P IPETTE\_3

(WC)

03/19/2024

1103	HEX CHROME INTERMEDIATE STD SOURCE 1 (5PPM)	<u>WP106944</u>	03/14/2024	03/15/2024	Rubina Mughal	None
<u>FROM</u>	9.00000ml of W2606 + 1.00000ml of	WP106017	= Final Quar	ntity: 10.000 m	I	

284, Sheffield Street, Mountainside NJ 07092 (908) 789 - 8900

Recipe ID 110	NAME calibration std. hexchrome 0 ppm	<u>NO.</u> WP106945	Prep Date 03/14/2024		<u>Prepared</u> <u>By</u> Rubina Mughal	<u>ScaleID</u> None	PipetteID None	Supervised By Iwona Zarych 03/19/2024
<u>FROM</u>	100.00000ml of W2606 = Final Quar	ntity: 100.00	0 ml		<u> </u>			
Decine				Evolution	Droporod			Supervised Dr.

Recipe				Expiration	Prepared			Supervised By
<u>ID</u>	NAME	<u>NO.</u>	Prep Date	<u>Date</u>	<u>By</u>	<u>ScaleID</u>	PipetteID	Iwona Zarych
109		<u>WP106946</u>	03/14/2024	03/15/2024	Rubina Mughal	None	WETCHEM_P	
	ppm						IPETTE_3	03/19/2024
FROM	99.80000ml of W2606 + 0.20000ml o	of WP10694	4 = Final Qua	antity: 100.000	ml		(000)	
				-				

284, Sheffield Street, Mountainside NJ 07092 (908) 789 - 8900

Recipe ID 3800	NAME Calibration Std Hexachrome 0.025 ppm	<u>NO.</u> WP106947	Prep Date 03/14/2024		<u>Prepared</u> <u>By</u> Rubina Mughal	<u>ScaleID</u> None	PipettelD WETCHEM_P IPETTE_3	Supervised By Iwona Zarych 03/19/2024
<u>FROM</u>	99.50000ml of W2606 + 0.50000ml o	f WP10694	4  = Final Qua	antity: 100.000	ml		(WC)	
Recipe				Expiration	<u>Prepared</u>			Supervised By

<u>Recipe</u>				Expiration	Prepared			<u>Supervised By</u>
<u>ID</u>	NAME	<u>NO.</u>	Prep Date	<u>Date</u>	<u>By</u>	<u>ScaleID</u>	<u>PipetteID</u>	Iwona Zarych
108		<u>WP106948</u>	03/14/2024	03/15/2024	Rubina Mughal	None	WETCHEM_P IPETTE_3	
	ppm						(WC)	03/19/2024
FROM	99.00000ml of W2606 + 1.00000ml o	of WP10694	4 = Final Qua	antity: 100.000	ml		(000)	

284, Sheffield Street, Mountainside NJ 07092 (908) 789 - 8900

<u>Recipe</u> <u>ID</u> 107	NAME Calibration Std. hexchrome 0.1 ppm	<u>NO.</u> WP106949	<u>Prep Date</u> 03/14/2024	Expiration Date 03/15/2024	<u>Prepared</u> <u>By</u> Rubina Mughal	<u>ScaleID</u> None	PipettelD WETCHEM_F IPETTE_3	Supervised By Iwona Zarych 03/19/2024
<u>FROM</u>	99.80000ml of W2606 + 0.20000ml c	of WP10601	7  = Final Qua	ntity: 100.000	ml		<del>(WC)</del>	
Recipe	NAME	NO	Pron Date	Expiration	Prepared By	ScaleID	PinettelD	Supervised By

Recipe				Expiration	Prepared			Supervised by
ID	NAME	<u>NO.</u>	Prep Date	Date	<u>By</u>	<u>ScaleID</u>	PipettelD	Iwona Zarych
3808	Calibration and CCV std HexChrome 0.5PPM	<u>WP106950</u>	03/14/2024	03/15/2024	Rubina Mughal	None	WETCHEM_P IPETTE_3	03/19/2024
<u>FROM</u>	99.00000ml of W2606 + 1.00000ml o	of WP10601	7 = Final Qua	ntity: 100.000	ml		(WC)	

284, Sheffield Street, Mountainside NJ 07092 (908) 789 - 8900

<u>Recipe</u> <u>ID</u> 3809	NAME Calibration std HexChrome 1.0PPM	<u>NO.</u> WP106951	Prep Date 03/14/2024	<u>Expiration</u> <u>Date</u> 03/15/2024	<u>Prepared</u> <u>By</u> Rubina Mughal	<u>ScaleID</u> None	PipettelD WETCHEM_P IPETTE_3	Supervised By Iwona Zarych 03/19/2024
FROM	98.00000ml of W2606 + 2.00000ml o	of WP10601	7 = Final Qua	antity: 100.000	ml		(WC) '	
Recipe				Expiration	Prepared			Supervised By

<b>Recipe</b>				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
3804		WP106952	03/14/2024	03/15/2024	Rubina Mughal	None	WETCHEM_F	-
	Std						IPETTE_3	03/19/2024
FROM	99.00000ml of W2606 + 1.00000ml o	f WP10601	8 = Final Qua	antity: 100.000	ml		(WC)	
				-				

284, Sheffield Street, Mountainside NJ 07092 (908) 789 - 8900

Recipe				Expiration	Prepared			Supervised By
ID	NAME	<u>NO.</u>	Prep Date	Date	<u>By</u>	<u>ScaleID</u>	PipettelD	Sohil Jodhani
3899	Chloride LCS std - 50ppm	WP106962	03/14/2024	03/15/2024	lwona Zarych	None	WETCHEM_F IPETTE_3	
FROM	19.90000ml of W2606 + 0.10000ml o	of WP10570	3 = Final Qua	antity: 20.000 r	nl		(WC)	
Paging				Expiration	Bronorod			Supervised By
<u>Recipe</u> <u>ID</u>	NAME	<u>NO.</u>	<u>Prep Date</u>	Expiration Date	<u>Prepared</u> <u>By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u> Sohil Jodhani
1450	Indicator acidifior reagant	WP106062	02/14/2024	04/14/2024	lwong Zanyah		Class	

1459	Indicator-acidifier reagent - Chloride	<u>WP106963</u>	03/14/2024	04/14/2024	Iwona Zarych	WETCHEM_S CALE_5 (WC	Glass Pipette-A	00/00/0004
	Childhae					SC-5)	r ipelle-A	03/20/2024
<u>FROM</u>	0.03000gram of W2712 + 0.25000gr ml	am of W304	9 + 100.0000	0ml of W2788 ·	+ 4.00000ml of		Quantity: 105.0	000

284, Sheffield Street, Mountainside NJ 07092 (908) 789 - 8900

Recipe ID 295	NAME TKN Calibration Std (10 ppm)	<u>NO.</u> WP106964	Prep Date 03/15/2024	Expiration Date 03/22/2024	<u>Prepared</u> <u>By</u> Rubina Mughal	<u>ScaleID</u> None	PipettelD WETCHEM_P IPETTE_3	Supervised By Iwona Zarych 03/19/2024
FROM	49.50000ml of W2606 + 0.50000ml o	of WP10456	3 = Final Qua	ntity: 50.000 n	nl		(WC)	
Recipe				Expiration	Prepared			Supervised By

Recipe				Expiration	Prepared			Supervised By
ID	NAME	<u>NO.</u>	Prep Date		<u>By</u>	<u>ScaleID</u>	<u>PipetteID</u>	Iwona Zarych
297	TKN CCV STD 5 ppm	<u>WP106965</u>	03/15/2024	03/22/2024	Rubina Mughal	None	WETCHEM_P	
							IPETTE_3	03/19/2024
FROM	49.75000ml of W2606 + 0.25000ml o	of WP10456	3 = Final Qua	antity: 50.000 r	nl		(WC) I	

284, Sheffield Street, Mountainside NJ 07092 (908) 789 - 8900

Recipe ID 296	NAME TKN ICV STD 5 ppm	<u>NO.</u> WP106966	<b>Prep Date</b> 03/15/2024		Prepared By Rubina Mughal	<u>ScaleID</u> None	PipettelD WETCHEM_P IPETTE_3	Supervised By Iwona Zarych 03/19/2024
<u>FROM</u>	49.75000ml of W2606 + 0.25000ml o	of WP10456	i 4  = Final Qua	antity: 50.000 r	nl		I (WC) I	

Recipe				Expiration	Prepared			<u>Supervised By</u>
<u>ID</u>	NAME	<u>NO.</u>	Prep Date	<u>Date</u>	<u>By</u>	<u>ScaleID</u>	PipetteID	Iwona Zarych
298	TKN LCS STD 5 ppm	<u>WP106967</u>	03/15/2024	03/22/2024	Rubina Mughal	None	WETCHEM_P	
							IPETTE_3 (WC)	03/19/2024
FROM	49.75000ml of W2606 + 0.25000ml o	of WP104564	4 = Final Qua	ntity: 50.000 r	nl		(000)	
I								

284, Sheffield Street, Mountainside NJ 07092 (908) 789 - 8900

<u>Recipe</u> <u>ID</u> 1633	NAME Phenol Calibration Std, 2PPM	<u>NO.</u> WP106977	Prep Date 03/15/2024		Prepared By Rubina Mughal	<u>ScaleID</u> None	PipettelD WETCHEM_P IPETTE_3	Supervised By Iwona Zarych 03/19/2024
<u>FROM</u>	48.00000ml of W2606 + 2.00000ml c	u of WP10690	5 = Final Qua	antity: 50.000 r	nl		( <del>WC)</del>	
<u>Recipe</u>				Expiration	<u>Prepared</u>			Supervised By

<u>Recipe</u>				Expiration	Prepared			Supervised By
<u>ID</u>	NAME	<u>NO.</u>	Prep Date	<u>Date</u>	<u>By</u>	<u>ScaleID</u>	PipetteID	Iwona Zarych
1634	Phenol CCV Std, 1PPM	<u>WP106978</u>	03/15/2024	03/16/2024	Rubina Mughal	None	WETCHEM_P	
							IPETTE_3	03/19/2024
FROM	49.00000ml of W2606 + 1.00000ml o	of WP10690	5 = Final Qua	antity: 50.000 r	nl		(000)	

284, Sheffield Street, Mountainside NJ 07092 (908) 789 - 8900

<u>Recipe</u> <u>ID</u> 1636	NAME Phenol ICV Std, 1PPM	<u>NO.</u> WP106979	Prep Date 03/15/2024		<u>Prepared</u> <u>By</u> Rubina Mughal	<u>ScaleID</u> None	PipettelD WETCHEM_P IPETTE_3	Supervised By Iwona Zarych 03/19/2024
<u>FROM</u>	49.00000ml of W2606 + 1.00000ml c	I of WP10690	I Final Qua	antity: 50.000 n	nl		(WC) <sup></sup>	
Recipe				Expiration	<u>Prepared</u>			Supervised By

<b>Recipe</b>				Expiration	Prepared			Supervised By
<u>ID</u>	NAME	<u>NO.</u>	Prep Date	<u>Date</u>	<u>By</u>	<u>ScaleID</u>	PipetteID	Iwona Zarych
506	4-AMINOANTIPYRINE	<u>WP106980</u>	03/15/2024	03/16/2024	Rubina Mughal	WETCHEM_S		
						CALE_5 (WC SC-5)	Pipette-A	03/19/2024
FROM	0.40000gram of W3004 + 20.00000n	nl of W2606	= Final Quar	ntity: 20.000 m	l	30-3)		



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	07/03/2024	01/03/2024 / Rajesh	07/20/2023 / Rajesh	E3551
Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9254-03 / Acetone, Ultra Resi (cs/4x4L)	23H1462005	03/01/2029	03/01/2024 / Rajesh	03/01/2024 / Rajesh	E3708
Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-3624-05 / Sodium Chloride, Crystal (cs/4x2.5kg)	0000187425	08/01/2024	05/24/2018 / mohan	03/02/2018 / mohan	M4123
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	HC908519	06/30/2024	11/28/2022 / jaswal	08/09/2021 / jaswal	M4909
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)	0000250349	12/15/2024	01/06/2022 / mohan	09/18/2021 / mohan	M5037
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)	22D0862014	01/20/2025	08/22/2022 /	04/26/2022 / mohan	M5211



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)	22D1462006	08/05/2024	02/05/2024 / Al-Terek	02/24/2022 / Al-Terek	M5792
Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9598-34 / Nitric Acid, Instra-Analyzed (cs/4x2.5L)	22A2562001	09/08/2024	03/08/2024 / Al-Terek	01/12/2022 / Al-Terek	M5827
Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	J0660-1 / AMMONIUM CHLORIDE, ACS, 500G	WL13B	04/08/2025	04/08/2015 / apatel	04/08/2015 / apatel	W1992
Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	J0660-1 / AMMONIUM CHLORIDE, ACS, 500G	XE09B	04/08/2025	04/08/2015 / apatel	04/08/2015 / apatel	W1993
Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	97062-260 / POTASSIUM FERRICYANIDE ACS GRADE 500G	1136C335	03/01/2027	03/01/2017 / apatel	02/28/2017 / apatel	W2211
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	178879	03/16/2028	03/16/2018 / apatel	03/16/2018 / apatel	W2338



Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	J3946-1 / Sodium Thiosulfate Pentahydrate, 500 gms	0000209717	08/20/2024	12/11/2018 /	12/04/2018 / AMANDEEP	W2454
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 #
PCI Scientific Supply, Inc.	J3506-5 / SODIUM BICARBONATE, PWD, ACS, 2.5KG	0000240594	06/03/2026	02/24/2020 / AMANDEEP	01/20/2020 / apatel	W2647
Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	AA13450-36 / Potassium Dichromate, 500g(NEW)	T15F019	01/24/2030	01/24/2020 / apatel	01/24/2020 / apatel	W2651
Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	P188-500 / Potassium Dichromate, 500g(new-2nd lot)	194664	01/24/2030	01/24/2020 / apatel	01/24/2020 / apatel	W2652
Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	AC156212500 / GLUTAMIC ACID BIOCHEM REG, 250G	A0405990	01/24/2030	01/24/2020 / apatel	01/24/2020 / apatel	W2653
				1		



Supply, Inc.

25 gms

#### CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	D16-500 / DEXTROSE ANHYDROUS ACS REAGENT, 500G(New)	186122A	01/24/2030	01/24/2020 / apatel	01/24/2020 / apatel	W2654
Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	P1060-10 / PHENOL, ACS, 500G	2HD0179	01/27/2030	01/27/2020 / apatel	01/27/2020 / apatel	W2663
Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	87683 / Sodium Nitroferricyanide 250g	W12F013	02/10/2030	02/10/2020 / apatel	02/10/2020 / apatel	W2666
Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	J9721-3 / Ammonium Hydroxide, 2.5 L	0000246506	10/14/2024	02/18/2020 / apatel	02/18/2020 / apatel	W2676
Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	0330-500G / Cupric Sulfate Pentahydrate	CPECG2635	04/23/2025	04/23/2020 / apatel	04/23/2020 / apatel	W2697
Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	x0027 / Xylene Cyanol FF, 25 gms	445BM-MO	06/08/2025	06/08/2020 /	06/08/2020 /	W2712

apatel

apatel



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 Supply, Inc.	PC16721-3 / Isopropanol, 99%	C20F23007	06/23/2025	12/30/2020 / apatel	12/30/2020 / apatel	W2788
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	010319	06/16/2026	09/01/2021 / jignesh	06/16/2021 / apatel	W2839
Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	P1060-10 / PHENOL, ACS, 500G	M13H048	01/07/2026	07/07/2021 / apatel	07/07/2021 / apatel	W2858
Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
HACH	14863-98 / HACH NUTRIENT BUFFER PILLOW	A1316	01/31/2027	01/27/2022 / apatel	01/27/2022 / apatel	W2900
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	2205851	04/30/2024	05/04/2022 / Iwona	05/04/2022 / apatel	W2913



## CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	AL04100-4 / Alkaline Iodide Azide, 1 L	2205f55	05/31/2024	05/25/2022 / Iwona	05/25/2022 / Iwona	W2914
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	7708-28	07/04/2024	01/30/2024 / Iwona	08/19/2022 / jignesh	W2942
Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	140730 / TEST PAPER,POT.IOD-STRCH,P K100,CS12	60799-008,260	09/19/2027	09/19/2022 / jignesh	09/19/2022 / jignesh	W2965
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	4210G81	04/30/2024	11/15/2022 / Iwona	11/15/2022 / Iwona	W2976
Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	AL70850-8 / Starch Solution, 4L	4210G90	10/31/2024	11/15/2022 / Iwona	11/15/2022 / Iwona	W2977
Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	31390 / 1,5-Diphenylcarbazide	MKCR6636	12/09/2027	12/09/2022 / Iwona	12/09/2022 / Iwona	W2979



## CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	J3278-5 / Potassium Sulfate, 2.5 Kgs	SLCM9788	11/21/2027	11/21/2022 / Iwona	11/21/2022 / Iwona	W2983
Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	JA630-5 / 4-aminoanti pyrine, 100 gm	50001601	01/31/2025	01/24/2023 / Iwona	01/24/2023 / Iwona	W3004
Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	LC136757 / S-DIPHENYLCARBAZONE 10G	43031219	08/09/2028	08/09/2023 / Iwona	08/09/2023 / Iwona	W3049
Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	140444 / TEST PAPERS,PH 0-14,.5 SENSI,100PK	HC325179	09/26/2028	09/26/2023 / Iwona	09/25/2023 / Iwona	W3056
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.	J9416-1 / Sodium Hypochlorite 500 ml	2312D77	06/30/2024	01/16/2024 / Iwona	01/16/2024 / Iwona	W3073



Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	4705-1 / MERCURIC NITRATE, 0.0141 N 4L	4308L72	08/31/2025	01/17/2024 / Iwona	01/17/2024 / Iwona	W3075
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)	23g1262009	08/30/2024	01/19/2024 / jignesh	01/19/2024 / jignesh	W3076
Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	TCX0014-500ML / p-xylene	Y348K-RX	02/21/2029	02/21/2024 / Iwona	02/21/2024 / Iwona	W3080



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

# **Certificate of Analysis**

Thermo Fisher Scientific's Quality System has been found to conform to Quality Management System Standard ISO9001:2008 standard by SAI Global Certificate Number CERT - 0090918

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. Certain products (USP/FCC/NF/EP/BP/JP grades) are sold for use in food, drug, or medical device manufacturing. Fisher does not maintain DMF's with the FDA. The following are the actual analytical results obtained:

Catalog Numb	nber P243			Quality Test / Release Date 2/2/2018		
Lot Number	_ot Number 178879					
Description POTASSIUM HYDROGEN PHTHALATE, ACIDIMETRIC STANDARD, A.C.S.						
Country of Origin Spain		* Suggested Retest Date	Feb-2023			
Chemical Origin Organic - non animal						
BSE/TSE Comment		No animal products are us processing, including lubr migrate to the finished pro	sed as starting raw material ingredie icants, processing aids, or any other oduct.	nts, or used in material that might		

Result name	Units	Specifications	Test Value
APPEARANCE		REPORT	White Crystals
ASSAY POTASSIUM HYDROGEN PHTHALATE	%	Inclusive Between 99.95 - 100.05	99.99
CHLORINE COMPOUNDS	%	<= 0.003	<0.0030
HEAVY METALS (as Pb)	ppm	<= 5	<5.0
IDENTIFICATION	PASS/FAIL	= PASS TEST	PASS TEST
INSOLUBLE MATTER	%	<= 0.005	0.0030
IRON (Fe)	ppm	<= 5	<5.0
PH OF 0.05M SOLUTION		Inclusive Between 4.00 - 4.02	4.01
SODIUM (Na)	%	<= 0.005	0.0020
SULFUR COMPOUNDS	%	<= 0.002	<0.0020
TRACEABLE TO NIST	RECORD	= LOT 351a	LOT 351a
TRACEABLE TO NIST KHP STD	RECORD	= LOT 84L	LOT 84L

Ierisa Bailig- Wyche

**Quality Assurance Specialist - Certificate of Analysis Fair Lawn** 



ISO 9001 CERTIFIED ISO 13485 CERTIFIED

#### AMRESCO LLC

28600 Fountain Parkway Solon, Ohio USA 44139 440/349-1199 FAX: 440/349-1182 www.amresco-inc.com Email: info@amresco-inc.com

## **CERTIFICATE OF QUALITY / CERTIFICATE OF ANALYSIS**

#### Potassium Ferricyanide

Code:	0713		
Chemical Formula:	K3Fe(CN)6	Manufacture Date:	(batch specific)
Molecular Weight:	329.25	Expiration/Reassay Date:	(batch specific)
CAS #:	13746-66-2		
Appearance:		Storage:	
Dark orange crystals		Grade:	ACS GRADE

#### **Additional Information**

TEST	SPECIFICATION	DISPOSITION
Chloride	<= 0.01 %	PASS
Ferro Compounds	<= 0.05 %	PASS
Insolubles	<= 0.005 %	PASS
Purity	>= 99.0 %	PASS
Sulfate	<= 0.01 %	PASS

Spec Set: 0713ACS

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

Product meets analytical specifications of the grades listed.

# **Certificate of Analysis**

Date of Release: 12/18/2013

Product: Ammonium Chloride GR ACS

Grade: Meets ACS Specifications

Country of Origin: India

Lot No.: WL13B

 $ClH_4N$ 



Catalog No.: AX1270 all size codes CAS #: 12125-02-9 FW: 53.49

	Requirement					
Characteristic	Minimum	Maximum	Results	UOM		
Assay (argentometric)	99.5		99.9	%		
Calcium (Ca)		0.001	0.0001	%		
Form	White crystals		White crystals			
Heavy metals (as Pb)		5	5	ppm		
Identification	To pass test		Passes			
Insoluble matter		0.005	0.002	%		
Iron (Fe)		2	2	ppm		
Loss on drying (105 C)		0.5	0.21	%		
Magnesium (Mg)		5	0.6	ppm		
pH of a 5% solution at 25 C	4.5	5.5	4.76			
Phosphate (PO4)		2	2	ppm		
Residue after ignition		0.01	0.002	%		
Sulfate (SO4)		0.002	0.002	%		

Joe Schoellkopff

Quality Control Manager

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

290 Concord Road Billerica, MA 01821

**EMD** Millipore Corporation

# **Certificate of Analysis**

*Date of Release:* 5/12/2014

Product: Ammonium Chloride GR ACS

Grade: Meets ACS Specifications

Country of Origin: India

Lot No.: XE09B

 $ClH_4N$ 



Catalog No.: AX1270 all size codes CAS #: 12125-02-9 FW: 53.49

Requirement					
Characteristic	Minimum	Maximum	Results	UOM	
Assay (argentometric)	99.5		99.8	%	
Calcium (Ca)		0.001	0.0001	%	
Form	White crystals		White crystals		
Heavy metals (as Pb)		5	5	ppm	
Identification	To pass test		Passes		
Insoluble matter		0.005	0.002	%	
Iron (Fe)		2	2	ppm	
Loss on drying (105 C)		0.5	0.22	%	
Magnesium (Mg)		5	0.7	ppm	
pH of a 5% solution at 25 C	4.5	5.5	4.95		
Phosphate (PO4)		2	2	ppm	
Residue after ignition		0.01	0.002	%	
Sulfate (SO4)		0.002	0.002	%	

Joe Schoellkopff

Quality Control Manager

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

290 Concord Road Billerica, MA 01821

**EMD Millipore Corporation** 

Sodium Chloride, Crystal BAKER ANALYZED® A.C.S. Reagent





Material No.: 3624-05 Batch No.: 0000187425 Manufactured Date: 2017/08/03 Retest Date: 2024/08/01

# Certificate of Analysis

Meets ACS Reagent Chemical Requirements,

Test	Specification	Result
ssay (NaCl) (by Ag titrn)	>= 99.0 %	99.8
H of 5% Solution at 25°C	5.0 - 9.0	5.8
CS – Insoluble Matter	<= 0.005 %	0.003
dide (I)	<= 0.002 %	< 0.002
omide (Br)	<= 0.01 %	< 0.01
hlorate and Nitrate (as NO3)	<= 0.003 %	< 0.003
CS – Phosphate (PO4)	<= 5 ppm	< 5
Ilfate (SO4)	<= 0.004 %	< 0.004
arium (Ba)	Passes Test	РТ
CS – Heavy Metals (as Pb)	<= 5 ppm	< 5
on (Fe)	<= 2 ppm	< 2
alcium (Ca)	<= 0.002 %	< 0.002
agnesium (Mg)	<= 0.001 %	< 0.001
otassium (K)	<= 0.005 %	< 0.005

For Laboratory, Research or Manufacturing Use Meets Reagent Specifications for testing USP/NF monographs

Country of Origin:USPackaging Site:Paris Mfg Ctr & DC



Phillipsburg, NJ 9001:2008, 14001:2004, FSSC 22000 Paris, KY 9001:2008 Mexico City, Mexico 9001:2008 Deventer, The Netherlands 9001:2008, 14001:2004, 13485:2003 Gliwice, Poland 9001:2008, 13485:2012 Selangor, Malaysia 9001:2008 Dehradun, India, 9001:2008, 14001:2004, 13485:2003 Mumbai, India, 9001:2008 Panoli, India 9001:2008

James Techie

Jamie Ethier Vice President Global Quality

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.573.2600 Avantor Performance Materials, LLC.

3477 Corporate Parkway. Center Valley, PA 18034. U.S.A. Phone: 610.573.2600 . Fax: 610.573.2610



### Fhuwlilfdwh#ri#Dqdo|vlv

Product Name:	Silica Gel
Catalog Number:	04667
Lot Number:	010319
Formula:	SiO <sub>2</sub>
Molecular Weight:	60.08
Main Component:	Oxide of Silicon
Melting Point:	about 1730°C
Color:	White
Physical Appearance:	Free Flowing Powder
Odor:	None
pH Value:	6.7 (5% aqueous slurry)
Bulk Density:	0.5 (g/ml)
Specific Surface Area	500-600 sq. m/gm
Particle Distribution:	$< 63 \mu m = 3.1\%$
	$> 200 \mu m = 0.4\%$
Mean Pore Diameter:	60Å
Water Soluble Matter	0.2 %
Toxicity:	non-toxic
Remarks:	Keep container closed

Measured according to the quality control methods of Scientific Adsorbents Inc., Atlanta, GA USA.

### **ThermoFisher** SCIENTIFIC

### 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 %

#### Order our products online alfa.com

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

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.

### Certificate of Analysis List For request number 1661869

Catalog Number	Lot Number	Related Catalog	Relate Lot	d
Entered	Entered	Number	Code	Description
1486327	1316	1486398	1316	BOD Nutrient Buffer Pillows

Total Enclosures: 1



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

**Certificate of Analysis** This is a Component of 1486398 lot A1316

Page 1

CONMODITY DOD Not at ant Do ff	Dillore	rage r
COMMODITY:BOD Nutrient Buffer COMMODITY NUMBER: 1486327 LOT NUMBER: A1316		DATE OF ANALYSIS: 1/5/2022
TEST	SPECIFICATIONS	RESULTS
Ammonia Concentration of a diluted pillow	0.63 to 0.88 ppm	0.860 ppm
Calcium Concentration of a diluted pillow	0.71 to 0.99 ppm	0.940 ppm
Iron Concentration of a diluted pillow	0.42 to 0.56 ppm	0.479 ppm
Magnesium Concentration of a diluted pillow	0.27 to 0.37 ppm	0.340 ppm
Phosphorus Concentration of a diluted pillow	7.1 to 9.63 ppm	8.400 ppm
pH of the pillow in solution	7.1 to 7.6	7.13
Dissolved Oxygen Reagent Blank	-0.2 to 0.2 ppm	-0.10 ppm
Sterility	To Pass	Passed

The expiration date is Jan 2027

Scott als

Certified by \_

Scott Als Analytical Services Chemist

## RICCA CHEMICAL COMPANY®

### **Certificate of Analysis**

W2913 Received by AP on 5/4/22

#### Manganous Sulfate Solution, 364 g/L

Lot Number: 2205851 Pro	duct Number: 4620		ate: MAY 02, 2022 on Date: APR 2024
Name	CAS#	Grade	
Water	7732-18-5	ACS/ASTM/USP/EP	
Sulfuric Acid	7664-93-9	ACS	
Manganous Sulfate Monohydrate	10034-96-5	Reagent	
Test	Specification	Result	
Appearance	Pink liquid	Passed	
Assay (by Refractive Index)	360-368 g/L	362 g/L	

Specification	Reference
Manganous Sulfate Solution	ASTM (D 888 A)
Manganous Sulfate Solution	ASTM (D 888 A)
Manganous Sulfate Solution	АРНА (4500-О Е)
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	АРНА (4500-О С)
Manganous Sulfate Solution	АРНА (4500-О С)
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)

Muurkeef

Myrlande Gilles (05/02/2022) Quality Control This Certificate of Analysis 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.

Sodium Bicarbonate, Powder BAKER ANALYZED® A.C.S. Reagent

(sodium hydrogen carbonate)





Material No.: 3506-05 Batch No.: 0000240594 Manufactured Date: 2019/06/05 Retest Date: 2026/06/03 Revision No: 1

### Certificate of Analysis

Meets ACS Reagent Chemical Requirements,

Test	Specification	Result
Assay (NaHCO₃) (dried basis)	99.7 - 100.3 %	100.1
Insoluble Matter	<= 0.015 %	< 0.002
Chloride (Cl)	<= 0.003 %	0.003
Phosphate (PO4)	<= 0.001 %	0.001
Sulfur Compounds (as SO4)	<= 0.003 %	0.003
Calcium (Ca)	<= 0.02 %	0.02
Trace Impurities – Iron (Fe)	<= 0.001 %	0.001
Magnesium (Mg)	<= 0.005 %	0.005
Potassium (K)	<= 0.005 %	0.005
Ammonium (NH₄)	<= 5 ppm	5
Trace Impurities – ACS – Heavy Metals (as Pb)	<= 5 ppm	5

For Laboratory, Research or Manufacturing Use Meets Reagent Specifications for testing USP/NF monographs

Country of Origin:	US
Packaging Site:	Paris Mfg Ctr & DC

James Techies

Jamie Ethier Vice President Global Quality

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700 Avantor Performance Materials, LLC 100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone: 610.386.1700

# Spectrum® CORP

### **Certificate Of Analysis**

Item Number	P1060	Lot Number	2HD0179
Item	Phenol, Loose Crystal, Reagent, ACS		
CAS Number	108-95-2		
Molecular Formula	C <sub>6</sub> H <sub>6</sub> O	Molecular Weight	94.11

Test	Specification		Result
	min	max	
ASSAY ( $C_6H_5OH$ )	99.0 %		100.02 %
FREEZING POINT (DRY)	40.5 C		40.5°C
CLARITY OF SOLUTION	TO PASS TEST		PASSES TEST
RESIDUE AFTER EVAPORATION		0.05 %	<0.05 %
WATER		0.5 %	0.0087 %
DATE OF MANUFACTURE			06-MAR-2018

Spectrum Chemical Mfg Corp 755 Jersey Avenue New Brunswick 08901 NJ



Certificate Of Analysis Results Certified by

Ibad Tirmizi Director of Quality Spectrum Chemical Mfg. Corp.

All pharmaceutical ingredients are tested using current edition of applicable pharmacopeia.

Read and understand label and SDS before handling any chemicals. All Spectrum's chemicals are for manufacturing, processing, repacking or research purposes by experienced personnel only. It is the customer's responsibility to provide adequate hazardous material training and ensure that appropriate Personal Protective Equipment (PPE) is used before handling any chemical.



W2858 Received by AP on 07/07/2021

Product No.:		33213		
Product:		Phenol, ACS, 99+%	, stab.	
Lot No.:		M13H048		
	Test		Limits	Results
	Clarity	ng point of solution ue after evaporation	99.0 % min 40.5°C min To pass test 0.05 % max 0.5 % max	99.8 % 40.5 °C Passes < 0.05 % 0.2 %

Retest date: January 7, 2026

#### Order our products online alfa.com

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

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.

Sodium Thiosulfate, 5-Hydrate, Crystal BAKER ANALYZED® A.C.S. Reagent





Material No.: 3946-01 Batch No.: 0000209717 Manufactured Date: 2017/08/22 Retest Date: 2024/08/20 Revision No: 1

### Certificate of Analysis

Meets ACS Reagent Chemical Requirements,

Test	Specification	Result
Assay (Na2S2O3 · 5H2O) (by iodometry)	99.5 - 101.0 %	100.1
ACS – Insoluble Matter	<= 0.005 %	< 0.001
pH of 5% Solution at 25°C	6.0 - 8.4	7.7
Nitrogen Compounds (as N)	<= 0.002 %	0.002
Sulfate and Sulfite (as SO4)	<= 0.1 %	0.1
Sulfide (S)	Passes Test	РТ

For Laboratory, Research or Manufacturing Use Meets Reagent Specifications for testing USP/NF monographs

Country of Origin:JPPackaging Site:Paris Mfg Ctr & DC



James Techie

Jamie Ethier Vice President Global Quality

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700 Avantor Performance Materials, LLC 100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone: 610.386.1700



W2666 Recived on 02/10/2020 by AP

Product No.:	87683
--------------	-------

Product: Sodium pentacyanonitrosylferrate(III) dihydrate, ACS, 99.0-102.0%

Lot No.: W12F013

Test	Limits	Results
Assay	99.0 - 102.0 %	99.67 %
Insoluble	0.01 % max	0.0079 %
Chloride	0.02 % max	Not detected
Sulfate	To pass test	Passes test
Aqueous solubility	To pass test	Passes test
Limit on Ferricyanide	To pass test	Passes test
Limit on Ferrocyanide	To pass test	Passes test

#### Order our products online alfa.com

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

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.

Ammonium Hydroxide, 28.0-30.0% BAKER ANALYZED® A.C.S. Reagent





Material No.: 9721-03 Batch No.: 0000246506 Manufactured Date: 2019/10/16 Retest Date: 2024/10/14 Revision No: 1

### Certificate of Analysis

Meets ACS Reagent Chemical Requirements,

Test	Specification	Result
Appearance (Colorless and free from suspended matter or sediment)	Passes Test	РТ
Assay (as NH3)	28.0 - 30.0 %	28.4
Color (APHA)	<= 5	5
Specific Gravity at 60°/60°F	0.896 - 0.902	0.902
Residue after Ignition	<= 0.0020 %	< 0.0003
Carbon Dioxide (CO2)	<= 0.002 %	< 0.001
Substances Reducing Permanganate	Passes Test	PT
Chloride (Cl)	<= 0.5 ppm	< 0.2
Nitrate (NO3)	<= 2 ppm	< 1
Phosphate (PO4)	<= 2 ppm	< 1
Sulfate (SO4)	<= 2 ppm	< 1
Frace Impurities – Aluminum (Al)	<= 200.0 ppb	< 5.0
Arsenic and Antimony (as As)	<= 3000 ppb	< 5
Trace Impurities – Barium (Ba)	<= 300.0 ppb	< 1.0
Frace Impurities – Boron (B)	<= 50.0 ppb	< 5.0
Trace Impurities – Chromium (Cr)	<= 100.0 ppb	< 1.0
Frace Impurities – Copper (Cu)	<= 100.0 ppb	< 1.0
Frace Impurities – Gold (Au)	<= 200.0 ppb	< 5.0
Heavy Metals (as Pb)	<= 500 ppb	< 100
Frace Impurities – Iron (Fe)	<= 100.0 ppb	< 1.0
Frace Impurities – Lead (Pb)	<= 200.0 ppb	< 10.0
Frace Impurities – Magnesium (Mg)	<= 200.0 ppb	< 1.0
Trace Impurities – Manganese (Mn)	<= 100.0 ppb	< 1.0

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700 Avantor Performance Materials, LLC 100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone: 610.386.1700

#### Material No.: 9721-03 Batch No.: 0000246506

Trace Impurities - Nickel (Ni)<= 100.0 ppb
Trace Impurities – Tin (Sn) <= 100.0 ppb <10.0
Trace Impurities - Titanium (Ti)<= 100.0 ppb< 1.0
Trace Impurities - Zinc (Zn)<= 100.0 ppb< 1.0

For Laboratory, Research or Manufacturing Use Meets Reagent Specifications for testing USP/NF monographs

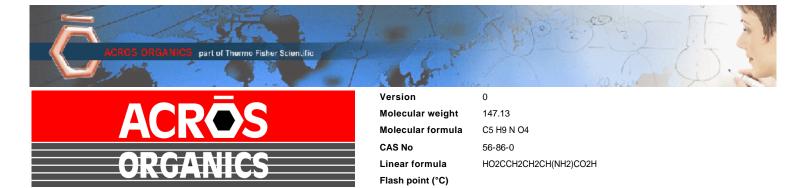
Country of Origin:	US
Packaging Site:	Phillipsburg Mfg Ctr & DC

James Techie

Jamie Ethier Vice President Global Quality

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700 Avantor Performance Materials, LLC 100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone: 610.386.1700

#### W2653 Received on 1/24/2020 by AP



### Certificate of Analysis

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

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

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

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 (Cl)	=<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

On Olen Brock



L. Van den Broek, QA Manager

Issued: 24 January 2020

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: <u>http://www.acros.com</u> 1 Reagent Lane, Fair Lawn, NJ 07410,USA Fax 201-796-1329



#### **CERTIFICATE OF ANALYSIS**

Product Name	ISOPROPYL ALCOH	OL, 99%
Grade	Meets ACS/USP/N	F Monographs
Catalog #	231000099, zp231000099	
Lot #	C20F23007	W2788 Bassived on 12/20/2020 by AB
Date of Manufacture:	06/23/20	W2788 Received on 12/30/2020 by AP
Recommended Retest Date:	Five Years from Da	te of Manufacture

TEST	MONO GRAPH	SPECIFICATION	RESULT
Assay (corrected for water)	USP	99.0% min	99.92%
Assay (corrected for water)	ACS	99.5% min	99.92%
Solubility in water	ACS <sup>+</sup>	To Pass Test	Pass
Appearance	ACS <sup>+</sup>	Clear, colorless liquid	Pass
Color, APHA	ACS	10 max	1
Limit of Nonvolatile Residue	USP⁺	NMT 2.5 mg (0.005%)	0.1 mg
Residue after Evaporation	ACS <sup>+</sup>	0.001% max	< 0.001%
Specific Gravity	USP	0.783 - 0.787 @25°C	0.783
Identification A - Infrared Absorption	USP	To Pass Test	Pass
Identification B	USP	To Pass Test	Pass
Refractive Index @ 20°C	USP	1.376-1.378	1.377
Acidity	USP⁺	NMT 0.70 ml of 0.020N NaOH is required	0.30 mL
Titrable Acid or Base	ACS <sup>+</sup>	0.0001 meq/g max	0.0001 meq/g
Carthanaid Carrana and da	1.00	Propionaldehyde 0.002% max	< 0.002%
Carbonyl Compounds	ACS	Acetone 0.002% max	None Detected
		Diethyl Ether NMT 0.1%	< 0.1%
	USP	Acetone NMT 0.1%	None Detected
Limit of Volatile Impurities		Diisopropyl Ether NMT 0.1%	< 0.1%
Limit of volatile impurities		n-Propyl Alcohol NMT 0.1%	< 0.1%
		2-Butanol NMT 0.1%	< 0.1%
		Total NMT 1.0%	< 0.1%
Water, wt%	ACS	NMT 0.2%	0.05%
Water Determination	USP	NMT 0.5%	0.05%

<sup>+</sup> This test is performed quarterly



#### **Certification and Compliance Statements**

This lot of Isopropyl Alcohol complies with all of the current requirements listed in the United States Pharmacopeia, American Chemical Society monographs and the National Formulary.

No chemicals whatsoever are used as solvents at any point in the manufacture, processing or packaging of Isopropyl Alcohol. Only Class 2 and Class 3 residual solvents may appear as impurities / related substances / low level contaminants in IPA Concentration of Class 2 Option 1 and Class 3 residual solvents is below limits in the current USP/NF General Chapter <467>.

This product is not derived, nor does it come in contact with, any materials derived from bovine or other animal sources.

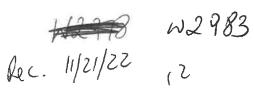
This product is for further commercial manufacturing, laboratory or research use, and may be used as an excipient or a process solvent for pharmaceutical purposes. It is not intended for use as an active ingredient in drug manufacturing nor as a medical device or disinfectant. Appropriate/legal use of this product is the responsibility of the user.

Approved by: D. Simoncelli, Quality Control Chemist

Date of Approval: 06/23/2020

Derh Sant

Sigma-Aldrich



3050 Spruce Street, Saint Louis, MO 63103, USA Website: www.sigmaaldrich.com Email USA: techserv@sial.com Outside USA: eurtechserv@sial.com

Product Name: Potassium sulfate - ReagentPlus® , ≥99.0%

Product Number:	P0772	
Batch Number:	SLCM9788	
Brand:	SIGALD	
CAS Number:	7778-80-5	
MDL Number:	MFCD00011388	
Formula:	K2O4S	
Formula Weight:	174.26 g/mol	
Quality Release Date:	03 MAR 2022	

### **Certificate of Analysis**

Test Specification Result Appearance (Color) White White Appearance (Form) Powder Powder Solubility (Color) Colorless Colorless Solubility (Turbidity) Clear Clear 10 g plus 150 mL, H2O Titration with NaOH > 99.0 % 99.2 %

Brian Dulle, Supervisor Quality Assurance St. Louis, Missouri US

 $K_2SO_4$ 

-Aldrich warrants, that at the time of the quality release or subsequent retest date this product conformed to the information S c....ained 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.





W 3004 pec. 01/24/23

### **Certificate of Analysis**

Catalog Number Product Description CAS Number 212760 4-Aminoantipyrine, 97% 83-07-8

Lot Number

50001601

#### **Test Results**

	<b>Specifications</b>	<u>Results</u>
Assay	≥97.0% min	98.2%
Identification	To pass test	Passes test
Melting Point	107-109°C	109°C
Sensitivity to phenol	To pass test	Passes test
Residue after Ignition	≤0.10%	0.03%
Loss on drying	<b>≤0.5%</b>	0.13%
Clarity of solution	Clear solution	Clear solution
(1g/20ml water)		
Clarity of solution	Clear solution	Clear solution
(1g/20ml EtOH)		
Description	Light yellow to tan fine	Light yellow crystalline
	crystals	powder
	-	•

Suggested retest date

January 2025

This certificate of analysis has been electronically generated and is valid without a signature.

BEANTOWN CHEMICAL CORPORATION, 9 SAGAMORE PARK ROAD, HUDSON NH 03051

LC LabChem

N3049 Nec, 08/09/23 17

#### Part of TCP Analytical Group

Jackson's Pointe Commerce Park- Building 1000 1010 Jackson's Pointe Court, Zelienople, PA 16063

#### **Certificate of Analysis**

**Diphenylcarbazone ACS** 

Product Code: LC136757

Manufacture Date: March 16, 2023

Lot Number: **43031219** 

Test	Specification	Result	
Appearance (color)	orange	orange	
Residue after ignition	<= 0.1 %	<0.1%	
Sensitivity	To pass test	Passes	
<del>Sol</del> ubility in acetone	To pass t <u>est</u>	Passes	

Intended Use - Product is intended for use in manufacturing procedures and laboratory procedures and protocols.

**Storage Information** - Unless noted on the product label, store the product under normal lab conditions in its tightly closed original container. Do not pipet directly from the container or return unused portions to the container.

**Instructions for Handling and Use** - Please refer to the associated product label and Safety Data Sheet (SDS) for informative regarding safety and handling of this product.

**Preparation** - All products are manufactured and tested according to established, documented procedures and methodology Production documentation records manufacturing data, raw material traceability and testing history on a per lot basis. Balance thermometers, and glassware are calibrated before first use and on a regular schedule with references traceable to NIST standards.

Michael Mithore

Quality Control Michael Monteleone Chemistry Supervisor 2023081015 29:36TWalker-0-0

ISO 9001 :2015 Registration #0306 -01

W 3059 Lec. 10/18/23 12



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

#### FINISHED PRODUCT, LOT NUMBER, MFG. /EXP DATE: PolySeed® • Part No. P-110 • Lot 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  $4.00 \times 10^9$  cfu/g.

#### **GLUCOSE/GLUTAMIC-ACID RESULTS:**

Tested results within acceptable range 198 +/- 30.5 mg/L (167.5 - 228.5 mg/L). GGA Lot# 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

Revised Jan 23

Quality Control Department

POLYSEED.Ref.1.19







06/08/2020(JST)

TOKYO CHEMICAL INDUSTRY CO., LTD.

4-10-1 Nihonbashi-Honcho, Chuo-ku, Tokyo 103-0023 Japan

Chemical Name: Xylene Cyanol FF			
Product Number: X0027 CAS RN: 2650-17-1	Lot: 445BM		
Tests	Results	Specifications	
Appearance	Deep green powder	Green to Dark green powder to crystal	
Lambda max.	613.5	613.0 to 616.0 nm(H2O)	
Absorbance(E1%1cm)	999(613.5 nm)	min. 950(H2O, 613.0 to 616.0 nm)	

TCI Lot numbers are 4-5 characters in length. Characters listed after the first 4-5 characters are control numbers for internal purpose only.

The contents of the specifications are subject to change without advance notice. The specification values displayed here are the most up to date values. There may be cases where the product labels display a different specification, however, the product quality still meets the latest specification.

**Customer Service:** 

TCI AMERICA Tel: +1-800-423-8616 / +1-503-283-1681 Fax: +1-888-520-1075 / +1-503-283-1987 E-mail: Sales-US@TCIchemicals.com

Tahung nihich

Takuya Nishioka Quality Assurance Department Manager

1 Reagent Lane	
Fair Lawn, NJ 07410	Therma Fisher Scientifiele Quality System has been found to conform to Quality Management System
201.796.7100 tel	Thermo Fisher Scientific's Quality System has been found to conform to Quality Management System
201.796.1329 fax	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 startin processing aids, or any other material		
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 Bailing- Wyche

Quality Assurance Specialist - Certificate of Analysis Fair Lawn

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



1 Reagent Lane		
Fair Lawn, NJ 07410		
201.796.7100 tel	Thermo Fisher Scientific's Quality System has been found to conform to Quality Management System	
201.796.1329 fax	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	P188	Quality Test / Release Date	08/12/2019
Lot Number	194664		
Description	POTASSIUM DICHROMATE, A.C.S.		
Country of Origin	United States	Suggested Retest Date	Aug/2024
Chemical Origin	Inorganic-non animal		
BSE/TSE Comment	No animal products are used as starting processing aids, or any other material the		
Chemical Comment			

N/A			
Result Name	Units	Specifications	Test Value
APPEARANCE		REPORT	Fine, orange-red crystals
ASSAY	%	>= 99	99.2
CALCIUM	%	<= 0.003	<0.003
CHLORIDE	%	<= 0.001	<0.001
LOSS ON DRYING @ 105 C	%	<= 0.05	<0.05
SULFATE (SO4)	%	<= 0.005	<0.005
INSOLUBLE MATTER	%	<= 0.005	0.003
IRON (Fe)	%	<= 0.001	<0.001
SODIUM (Na)	%	<= 0.02	<0.02
IDENTIFICATION	PASS/FAIL	= PASS TEST	PASS TEST

Derisa Bailing- Wyche

Quality Assurance Specialist - Certificate of Analysis Fair Lawn

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



1 Reagent Lane	
Fair Lawn, NJ 07410	
201.796.7100 tel	Thermo Fisher Scientific's Quality System has been found to conform to Quality Management System
201.796.1329 fax	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	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 Buston

Julian Burton - Quality Control Manager – Fair Lawn

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

\*Based on suggested storage condition.

### **Allan Chemical Corporation**

235 Margaret King Avenue Ringwood NJ 07456

Telephone: 973-962-4014 Fax: 973-962-6820 E-Mail: allanchem@allanchem.com

ALLAN CHEMICAL - QC DEPT.
September 20, 2021
14410
N/A
CPECG2635

W2697

### CERTIFICATE OF ANALYSIS CUPRIC SULFATE CRYSTAL – ACS GRADE

ASSAY:	102.0 %
LEAD:	< 0.0001 %
NITROGEN COMPOUNDS:	< 0.001 %
ZINC:	< 0.0001 %
INSOLUBLE MATTER:	< 0.001 %
CHLORIDE:	< 0.001 %
CHROMIUM:	< 0.00002 %
IRON:	0.0003 %
NICKEL:	< 0.0001 %
CADMIUM:	< 0.0001 %
MANGANESE:	< 0.0001 %
CALCIUM:	< 0.005 %
POTASSIUM:	< 0.001 %
SODIUM:	< 0.001 %



PRODUCTOS QUIMICOS MONTERREY, S.A. DE CY. MIRADOR 201, COL. MIRADOR MONTERREY, N.L. MEXICO CP 64070 TEL +52 81 13 52 57 57 WWW.pqm.com.mx

### **CERTIFICATE OF ANALYSIS**

	DIUM SULFATE CRYS			NA.CO
SPECIFICATION NUMBER :	-		E DATE:	Na <sub>2</sub> SO <sub>4</sub> ABR/21/2023
	3201	N.a.L.a.M.O	E 1./A I E.	ADR/2 1/2023
TEST	SPECI	FICATIONS	LOT V	ALUES
Assay (Na <sub>2</sub> SO <sub>4</sub> )	Min. 99	1.0%	99.7 %	
pH of a 5% solution at 25°C	5.2 - 9.	2	6.1	
Insoluble matter	Max. 0.	01%	0.005	1
Loss on ignition	Max. 0.	5%	0.1 %	16
Chloride (Cl)	Max. 0.	001%	<0.001	0/
Nitrogen compounds (as N)	Max. 5	ppm	<0.001 <5 ppn	
Phosphate (PO <sub>4</sub> )	Max. 0.		<0.001	
Heavy metals (as Pb)	Max. S			
Iron (Fe)	Max, 0,		<5 ppn <0.001	
Calcium (Ca)	Max. 0.	01%	0.002 %	
Magnesium (Mg)	Max. 0.	005%	0.002 9	
Potassium (K)	Max. 0.		0.003 %	
Extraction-concentration suit	ability Passes	test	Passes	*
Appearance	Passes		Passes	
Identification	Passes	test	Passes	test
Solubility and foreing matter		test	Passes	: test
Retained on US Standard No.		h	0.1 %	
Retained on US Standard No.	60 sieve Min. 94	a/ <sub>0</sub>	97.3 %	
Through US Standard No. 60	sieve Max. 5%	46	2.5 %	
Through US Standard No. 100	) sieve Max. 10	1%	0.1 %	
an second a second s	CON	MENTS	ಕ್ಷಿತ್ರಾಳಿಸಿಕ ಕಾರ್ಯಕರ್ ಪ್ರದೇಶಕರ್	
91 <i>0</i> 91			n+	15 HANDOWNI
			- he "	
			1	
		QC: Ph	C Irma Belma	res

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

Read. by R: 017/293 E3551

RE-02-01, Ed. 1

Acetone BAKER RESI-ANALYZED® Reagent For Organic Residue Analysis

Avantor



Material No.: 9254-03 Batch No.: 23H1462005 Manufactured Date: 2023-07-26 Expiration Date: 2026-07-25 Revision No.: 0

### **Certificate of Analysis**

Test	Specification	Result
Assay ((CH3)2CO) (by GC, corrected for water)	≥ 99.4 %	99.7 %
Color (APHA)	≤ 10	5
Residue after Evaporation	≤ 1.0 ppm <sup>.</sup>	0.3 ppm
Substances Reducing Permanganate	Passes Test	Passes Test
Fitrable Acid (µeq/g)	≤ 0.3	0.1
Fitrable Base (µeq/g)	≤ 0.6	< 0.1
Nater (H2O)	≤ 0.5 %	0.3 %
ID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	≤ 5	< 1
CD Sensitive Impuritles (as Heptachlor Epoxide) Single Peak (pg/mL)	≤ 10	1

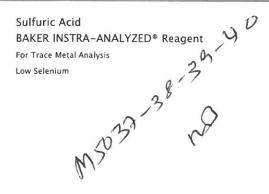
For Laboratory,Research,or Manufacturing Use MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

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

Recd. by RP on 03/01/24 E 3708

Kennekskel.

Ken Koehnlein Sr. Manager, Quality Assurance







Material No.: 9673-33 Batch No.: 0000250349 Manufactured Date: 2019/12/17 Retest Date: 2024/12/15 Revision No: 1

Test	Specification	Result
ACS – Assay (H2SO4)	95.0 - 98.0 %	96.5
Appearance	Passes Test	PT
ACS – Color (APHA)	<= 10	5
ACS - Residue after Ignition	<= 3 ppm	1
ACS – Substances Reducing Permanganate (as SO2)	<= 2 ppm	< 2
Ammonium (NH4)	<= l ppm	< 1
Chloride (CI)	<= 0.1 ppm	< 0.1
Nitrate (NO3)	<= 0.2 ppm	< 0.1
Phosphate (PO4)	<= 0.5 ppm	< 0.1
Trace Impurities - Aluminum (Al)	<= 30.0 ppb	0.2
Arsenic and Antimony (as As)	<= 4 ppb	< 2
Trace Impurities – Barium (Ba)	<= 10.0 ppb	< 1.0
Trace Impurities – Beryllium (Be)	<= 10.0 ppb	< 1.0
Trace Impurities – Bismuth (Bi)	<= 10.0 ppb	< 1.0
Trace Impurities - Boron (B)	<= 10.0 ppb	< 5.0
Trace Impurities - Cadmium (Cd)	<= 2.0 ppb	< 0.3
Trace Impurities – Calcium (Ca)	<= 50.0 ppb	2.9
Trace Impurities - Chromium (Cr)	<= 6.0 ppb	< 0.4
Trace Impurities - Cobalt (Co)	<= 0.5 ppb	< 0.3
Trace Impurities - Copper (Cu)	<= 1.0 ppb	< 0.1
Trace Impurities – Gallium (Ga)	<= 10.0 ppb	< 1.0
Trace Impurities - Germanium (Ge)	<= 10.0 ppb	< 10.0
Trace Impurities - Gold (Au)	<= 10.0 ppb	< 0.2
Heavy Metals (as Pb)	<= 500 ppb	< 100

### Certificate of Analysis

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700 Avantor Performance Materials, LLC 100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone: 610.386.1700

Material No.: 9673-33 Batch No.: 0000250349

Test	Specification	Result	
Trace Impurities – Iron (Fe)	<= 50.0 ppb	4.1	
Trace Impurities - Lead (Pb)	<= 0.5 ppb	< 0.5	
Trace Impurities – Lithium (Li)	<= 10.0 ppb	< 1.0	
Trace Impurities – Magnesium (Mg)	<= 7.0 ppb	0.4	
Trace Impurities – Manganese (Mn)	<= 1.0 ppb	< 0.4	
Trace Impurities – Mercury (Hg)	<= 0.5 ppb	< 0.4	
Trace Impurities - Molybdenum (Mo)	<= 10.0 ppb	< 5.0	
Trace Impurities - Nickel (Ni)	<= 2.0 ppb	< 0.3	
Trace Impurities – Niobium (Nb)	<= 10.0 ppb		
Trace Impurities – Potassium (K)	<= 500.0 ppb	< 1.0	
Trace Impurities – Selenium (Se)	<= 50.0 ppb	< 2.0	
Trace Impurities – Silicon (Si)	<= 100.0 ppb	22.9	
Trace Impurities – Silver (Ag)	<= 1.0 ppb	< 10.0	
Trace Impurities - Sodium (Na)	<= 500.0 ppb	< 0.3	
Trace Impurities – Strontium (Sr)	<= 500.0 ppb	2.7	
Trace Impurities – Tantalum (Ta)	<= 3.0 ppb <= 0.0 ppb	< 0.2	
Trace Impurities – Thallium (TI)	<= 20.0 ppb	< 5.0	
Trace Impurities – Tin (Sn)		< 5.0	
Trace Impurities – Titanium (Ti)	<= 5.0 ppb	< 0.8	
Trace Impurities – Vanadium (V)	<= 10.0 ppb	< 1.0	
Trace Impurities – Zinc (Zn)	<= 10.0 ppb	< 1.0	
Trace Impurities – Zirconium (Zr)	<= 5.0 ppb	0.3	
	<= 10.0 ppb	< 1.0	

For Laboratory, Research or Manufacturing Use

Country of Origin: Packaging Site:

US Phillipsburg Mfg Ctr & DC

James Techie

Jamie Ethier Vice President Global Quality

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700 Avantor Performance Materials, LLC 100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone: 610.386.1700

#### Sulfuric Acid

MEZICE ME

### Avantor



Material No.: 9673-33 Batch No.: 22D0862014 Manufactured Date: 2022-02-23 Retest Date: 2027-02-22 Revision No.: 0

### Certificate of Analysis

Test	Specification	Result
ACS – Assay (H2SO4)	95.0 - 98.0 %	96.5 %
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 (NH4)	≤ 1 ppm	< 1 ppm
Chloride (Cl)	$\leq$ 0.1 ppm	< 0.1 ppm
Nitrate (NO3)	$\leq$ 0.2 ppm	< 0.1 ppm
Phosphate (PO4)	$\leq$ 0.5 ppm	< 0.1 ppm
Trace Impurities – Aluminum (Al)	≤ 30.0 ppb	1.7 ppb
Arsenic and Antimony (as As)	$\leq$ 4.0 ppb	< 2.0 ppb
Trace Impurities – Boron (B)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities - Cadmium (Cd)	$\leq$ 2.0 ppb	< 0.3 ppb
Trace Impurities – Chromium (Cr)	≤ 6.0 ppb	< 0.4 ppb
Trace Impurities - Cobalt (Co)	$\leq$ 0.5 ppb	< 0.3 ppb
Trace Impurities – Copper (Cu)	≤ 1.0 ppb	< 0.1 ppb
Trace Impurities – Gold (Au)	≤ 10.0 ppb	< 0.2 ppb
Heavy Metals (as Pb)	≤ 500.0 ppb	< 100.0 ppb
Trace Impurities – Iron (Fe)	≤ 50.0 ppb	2.0 ppb
Trace Impurities – Lead (Pb)	$\leq$ 0.5 ppb	< 0.5 ppb
Trace Impurities – Magnesium (Mg)	≤ 7.0 ppb	0.6 ppb
Trace Impurities – Manganese (Mn)	$\leq$ 1.0 ppb	< 0.4 ppb
Trace Impurities – Mercury (Hg)	$\leq$ 0.5 ppb	< 0.1 ppb
Trace Impurities – Nickel (Ni)	$\leq$ 2.0 ppb	< 0.3 ppb
Trace Impurities – Potassium (K)	$\leq$ 500.0 ppb	< 2.0 ppb
Trace Impurities – Selenium (Se)	$\leq$ 50.0 ppb	12.1 ppb
Trace Impurities – Silicon (Si)	≤ 100.0 ppb	4.4 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.: 22D0862014

Test	Specification	Result	
Trace Impurities – Sodium (Na)	$\leq$ 500.0 ppb	6.2 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	0.6 ppb	

For Laboratory, Research, or Manufacturing Use

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

James Techie

C10 200 1700

Jamie Ethier Vice President Global Quality

#### PO: 220504-03 PRODUCT CODE: SHIP DATE: 8/19/2022

Sodium Hydroxide, Pellet AR® (ACS)

avantor



W2942 Mel -08/19/22 Pake: -08/19/22

Material No.: 7708-28 Batch No.: 22A0462005 Manufactured Date: 2022-01-04 Expiration Date: 2024-07-04 Revision No.: 1

Certificate of Analysis

Meets ACS Reagent Chemical Requirements,

Test	Specification	Result
Assay (NaOH) (by acidimetry)	≥ 98 %	98 %
Identification	Passes Test	Passes Test
Calcium (Ca)	≤ 0.005 %	< 0.005 %
Chloride (Cl)	≤ 0.005 %	< 0.005 %
Copper (Cu)	≤ 0.001 %	< 0.001 %
Heavy Metals (as Ag)	≤ 0.001 %	< 0.001 %
Insoluble Matter	≤ 0.003 %	< 0.002 %
Iron (Fe)	≤ 0.0003 %	< 0.0002 %
ACS – Magnesium (Mg)	$\leq$ 0.002 %	< 0.002 %
Mercury (Hg)	≤ 0.1 ppm	< 0.1 ppm
Nickel (Ni)	≤ 0.0005 %	< 0.0005 %
Nitrogen Compounds (as N)	≤ 0.0003 %	< 0.0003 %
Phosphate (PO4)	≤ 0.0002 %	< 0.0001 %
Potassium (K)	≤ 0.02 %	0.01 %
Sodium Carbonate (Na2CO3)	≤ 0.4 %	0.4 %
ACS – Sulfate (SO4)	≤ 0.003 %	< 0.003 %

#### PO: 220504-03 PRODUCT CODE: SHIP DATE: 8/19/2022

Sodium Hydroxide, Pellet AR<sup>®</sup> (ACS)





Material No.: 7708-28 Batch No.: 22A0462005

Test	Specification	Result	
1050	specification	Result	

For Laboratory,Research,or Manufacturing Use. Meets Reagent Specifications for testing USP/NF monographs Appearance (white hygroscopic pellets)

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



For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700 Avantor Performance Materials, LLC 100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone 610.386.1700

# RICCA CHEMICAL COMPANY® N 2976 Ree. 11/15/22

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

### **Certificate of Analysis**

### Sodium Thiosulfate, 0.0250 Normal (N/40)

#### Lot Number: 4210G81

Product Number: 7900

#### Manufacture Date: OCT 17, 2022 Expiration Date: APR 2024

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/AS	TM/USP/EP	
Sodium Thiosulfate Pentahydrate	10102-17-7	ACS		
Organic Preservative	Proprietary		110000000000000000000000000000000000000	
Sodium Carbonate	497-19-8	ACS		
Test	Specification		Result	NIST SRM#
Appearance	Colorless liquid		Passed	
Assay (vs. Potassium Iodate/Starch)	0.02499-0.02501 1	Nat 20°C	0.02500 N at 20°C	136
Specification		Reference		
Standard Sodium Thiosulfate Solution, 0.0250 N		APHA (4500-S	2- F)	and the second second
Standard Sodium Thiosulfate Titrant		APHA (4500-O	D)	0.101
Standard Sodium Thiosulfate Titrant		APHA (4500-O	E)	
Standard Sodium Thiosulfate Titrant		APHA (4500-O	F)	
Standard Sodium Thiosulfate Titrant, 0.025 N		АРНА (4500-С	1 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)	********	

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
7900-5	20 L Cubitainer®	18 months

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

Paul Brandon

Paul Brandon (10/17/2022) Production Manager This Certificate of Analysis is designed to comply with ISO Guide 31 "Reference Materials -- Contents of Certificates and Labels."

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

### RICCA CHEMICAL COMPANY®

W2977 Rec 11/15/72

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

### **Certificate of Analysis**

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

#### Lot Number: 4210G90

Product Number: 8000

#### Manufacture Date: OCT 17, 2022 Expiration Date: OCT 2024

This product is Mercury-free.

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

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

Size / Package Type	Shelf Life (Unopened Container)
4 L natural poly	24 months
20 L Cubitainer®	24 months
	4 L natural poly

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

Paul Brandon

Paul Brandon (10/17/2022) Production Manager This Certificate of Analysis is designed to comply with ISO Guide 31 "Reference Materials -- Contents of Certificates and Labels."

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



### W 2979

lec: 12/08/22

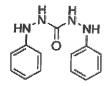
exp. 12/08/27

Product Name: 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

3050 Spruce Street, Saint Louis, MO 63103, USA Website: www.sigmaaldrich.com Email USA: techserv@sial.com Outside USA: eurtechserv@sial.com

### **Certificate of Analysis**



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 °C	173.0 °C
Infrared Spectrum	Conforms to Structure	Conforms
Residue on ignition (Ash)	<u>&lt;</u> 0.05 %	0.01 %
15 minutes, 800 Degrees Celsius		
Solubility	Pass	Pass
Sensitivity Test	Pass	Pass
Meets ACS Requirements	Current ACS Specification	Conforms

Z

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.





### Sodium Hypochlorite Solution, 5% available Chlorine

Lot Number: 2312D77

Product Number: 7495.5

Manufacture Date: DEC 08, 2023 Expiration Date: JUN 2024

This solution is subject to slow decomposition upon exposure to air. Keep container tightly capped. Refrigeration may improve stability. When used in the Phenate method for Ammonia, APHA recommends replacing this solution about every 2 months.

Name	CAS#	Grade
Water	7732-18-5	Commercial
Sodium Hypochlorite	7681-52-9	Commercial
Test	Specification	Result NIST SRM#
Appearance	Colorless to greenish- liquid	yellow Passed
Assay (vs. Sodium Thiosulfate/Starch)	$4.75$ - $5.25$ % (w/w) $\text{Cl}_2$	$5.24 \%$ (w/w) $Cl_2$ 136
Specification	Re	eference

Sodium Hypochlorite, 5%	APHA (4500-NH3 F)
Sodium Hypochlorite	ASTM (D 4785)

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)
7495.5-1	4 L black poly	6 months
7495.5-16	500 mL amber poly	6 months
7495.5-32	1 L amber poly	6 months
		0 11011115

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

Jose Pena (12/08/2023) 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.



W3075 Rec. on 01/17/24 by IZ

Manufacture Date: AUG 17, 2023

### **Certificate of Analysis**

### Mercuric Nitrate, 0.0141 Normal, 0.00705 Molar, 1 mL = 0.5 mg Cl

Lot Number: 4308L72 Prod	uct Number: 4705		Expiration Da	ate: AUG 202
Name	CAS#	Grade		
Water	7732-18-5	ACS/AS	STM/USP/EP	
Mercuric Nitrate Monohydrate	7783-34-8	ACS		
Nitric Acid	7697-37-2	ACS		
Test	Specification		Result	NIST SRM#
Appearance	Colorless liquid		Passed	
Assay (vs. Potassium Chloride/Diphenyld	carbazone) 0.01409-0.01411 N	at 20°C	0.01410 N at 20°C	999
Specification		Reference		
Standard Mercuric Nitrate Titrant, 0.00'	705 M (0.0141 N)	APHA (4500-0	Cl-C)	
Mercuric nitrate, 0.0141 N		TAPPI (T 256	cm-97)	
Mercuric Nitrate Titrant (0.0141 N)		EPA (325.3)		
Volumetric glassware complies with Class A tolers	ance requirements of ASTM E 288 and	NIST Circular	134° it is calibrated before fi	est uso and

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)
4705-1	4 L amber glass	24 months
4705-16	500 mL amber glass	24 months
4705-32	1 L amber glass	24 months

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

You Dran

Paul Brandon (08/17/2023) Production 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.

Hexanes (95% n-hexane) BAKER RESI-ANALYZED® Reagent

### (Vavantor"



J 3076 Certificate of Analysis

Material No.: 9262-03 Batch No.: 23G1262009 Manufactured Date: 2023-06-01 Expiration Date: 2024-08-30 Revision No.: 0

#### Test Specification Result FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL) ≤ 5 1 ECD Sensitive Impurities (as Heptachlor Epoxide) Single Peak (pg/mL) $\leq 10$ 1 ECD-Sensitive Impurities (as Ethylene Dibromide) - Single Impurity Peak (ng/mL) ≤ 5 3 Assay (Total Saturated C6 Isomers) (by GC, corrected for water) ≥ 99.5 % 99.6 % Assay (as n-Hexane) (by GC, corrected for water) ≥ 95 % 98 % Color (APHA) ≤ 10 5 **Residue after Evaporation** ≤ 1.0 ppm 0.3 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

fermetrikel.

sr. Manager, Quality Assurance



02/21/2024(JST)

TOKYO CHEMICAL INDUSTRY CO., LTD. T-PLUS Nihonbashi-Kodemmacho

16-12 Nihonbashi-kodemmacho, Chuo-ku, Tokyo 103-0001, Japan

Chemical Name: p-Xylene							
Product Number: X0014 CAS RN: 106-42-3	Lot: Y348K						
Tests	Results	Specifications					
Appearance	Colorless clear liquid	Colorless to Almost colorless clear liquid					
Purity(GC)	99.7 %	min. 99.0 %					

TCI Lot numbers are 4-5 characters in length. Characters listed after the first 4-5 characters are control numbers for internal purpose only.

The contents of the specifications are subject to change without advance notice. The specification values displayed here are the most up to date values. There may be cases where the product labels display a different specification, however, the product quality still meets the latest specification.

**Customer Service:** 

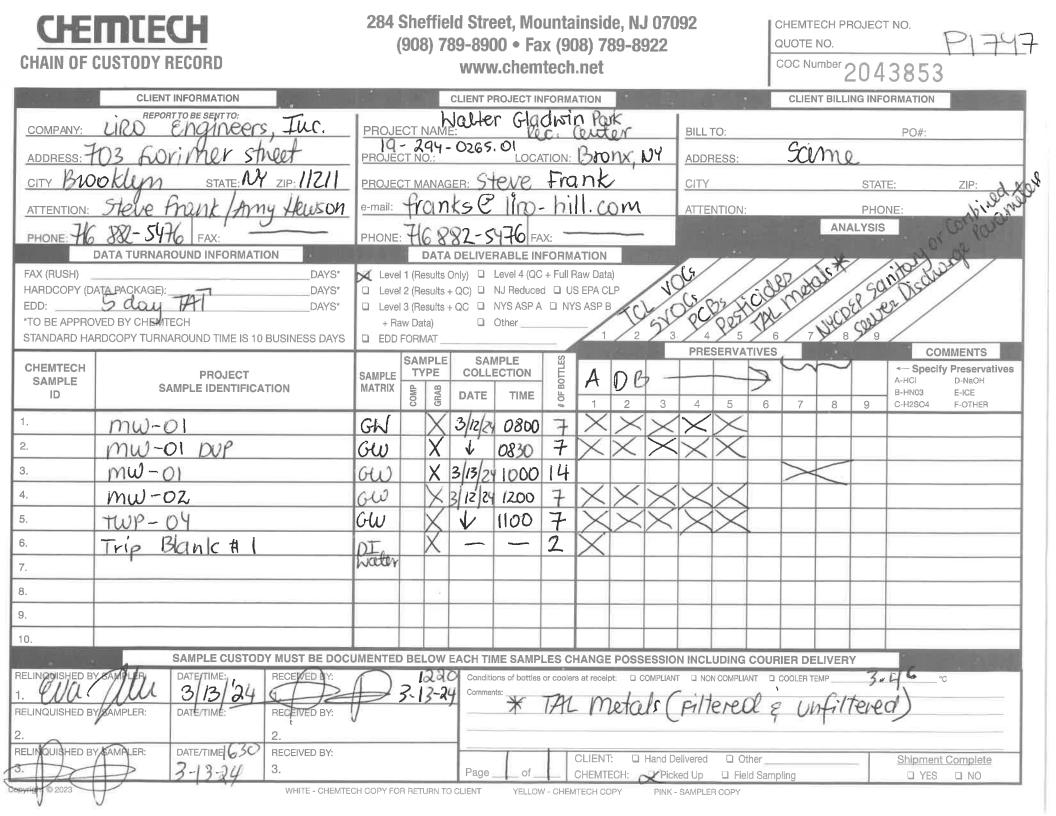
TCI AMERICA Tel: +1-800-423-8616 / +1-503-283-1681 Fax: +1-888-520-1075 / +1-503-283-1987 E-mail: Sales-US@TCIchemicals.com

Tahung nitich

Takuya Nishioka Quality Assurance Department Manager



# <u>SHIPPING</u> DOCUMENTS





#### Laboratory Certification

Certified By	License No.				
CAS EPA CLP Contract	68HERH20D0011				
Connecticut	PH-0649				
DOD ELAP (L-A-B)	L2219				
Maine	2022022				
Maryland	296				
New Hampshire	255423				
New Jersey	20012				
New York	11376				
Pennsylvania	68-00548				
Soil Permit	P330-21-00137				
Texas	T104704488-23-16				

### CHEMITECH

### LOGIN REPORT/SAMPLE TRANSFER

Order ID :	P1747	LIRO01	Order Date :	3/13/2024 12:	28:00 PM		Project Mgr :
Client Name :	LiRo Engineers	, Inc.	Project Name :	Walter Gladwi	in Recreation		Report Type : NYS ASP A
<b>Client Contact :</b>	Steve Frank		Receive DateTime :				EDD Type: NYSDEC EDD V-3
Invoice Name :	LiRo Engineers	, Inc.	Purchase Order :		16:30	Har	d Copy Date :
Invoice Contact :	Steve Frank						Date Signoff :

LAB ID	CLIENT ID	MATRIX SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD		FAX DATE	DUE DATES
P1747-01	MW-01	Water 03/12/2024	4 08:00						
				VOC-TCLVOA-10		8260-Low	5 Bus. Days		
P1747-02	MW-01-DUP	Water 03/12/2024	08:30						
				VOC-TCLVOA-10		8260-Low	5 Bus. Days		
P1747-03	MW-01	Water 03/13/2024	10:00						
				VOC-NYCD	NYCDischarge	624.1	5 Bus. Days		
P1747-04	MW-02	Water 03/12/2024	12:00						
				VOC-TCLVOA-10		8260-Low	5 Bus. Days		
P1747-05	MW-04	Water 03/12/2024	11:00						
				VOC-TCLVOA-10		8260-Low	5 Bus. Days		
P1747-06	TRIP-BLANK	Water 03/12/2024	00:00						
				VOC-TCLVOA-10		8260-Low	5 Bus. Days		

**Relinguished By** Date / Time : 3-11

Received By : 09.07 Date / Time :

Raf HY Reg HS

Storage Area : VOA Refridgerator Room