

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

Cover Page

Order ID: P5141

Project ID: Rotor Clip - PO# 5183.0001

Client: VERINA CONSULTING GROUP, LLC

Lab Sample Number

Client Sample Number

P5141-01 WATER TREATMENT DISCHARGE
P5141-02 WATER TREATMENT DISCHARGE
P5141-03 P5141-02MS
P5141-04 P5141-02MSD

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 :		
oignature .	 ate:	12/13/2024

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





APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: P5141

	Completed
Earthonough various the various they after following.	
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	<u> </u>
Were the correct method log-in for analysis according to the Analytical Request and Chain of Castody	✓
Were the samples received within hold time	<u> </u>
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?	<u>√</u> <u>√</u> <u>√</u>
All runlogs and manual integration are reviewed for requirements	<u> </u>
All manual calculations and /or hand notations verified	<u> </u>

QA Review Signature:	KETAN PATEL	Date:	12/13/202
----------------------	-------------	-------	-----------



LAB CHRONICLE

OrderID: P5141

Client: VERINA CONSULTING GROUP, LLC

Contact: Michael Valenzi

OrderDate: 12/5/2024 12:27:00 PM

Project: Rotor Clip - PO# 5183.0001

Location: M11

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
P5141-01	WATER TREATMENT DISCHARGE	WATER			12/05/24 10:40			12/05/24
			Ammonia	SM4500-NH3		12/09/24	12/09/24 14:17	
			BOD5	SM5210 B			12/05/24 17:40	
			COD	SM5220 D			12/09/24 14:22	
			Residual Chlorine	SM4500 CI G			12/05/24 16:21	
			TSS	SM2540 D			12/09/24 11:00	
P5141-02	WATER TREATMENT DISCHARGE	WATER			12/05/24 10:43			12/05/24
			Cyanide	9012B		12/07/24	12/09/24 12:54	
			Oil and Grease	1664A			12/06/24 10:30	



SAMPLE DATA



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

Fax: 908 789 8922

Report of Analysis

Client: VERINA CONSULTING GROUP, LLC Date Collected: 12/05/24 10:40

Project: Rotor Clip - PO# 5183.0001 Date Received: 12/05/24

Client Sample ID: WATER TREATMENT DISCHARGE SDG No.: P5141

Lab Sample ID: P5141-01 Matrix: WATER

% Solid: 0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Ammonia as N	0.70		1	0.045	0.10	mg/L	12/09/24 08:50	12/09/24 14:17	SM 4500-NH3
									B plus G-11
BOD5	31.0		1	0.17	2.00	mg/L		12/05/24 17:40	SM 5210 B-16
COD	139		1	2.35	10.0	mg/L		12/09/24 14:22	SM 5220 D-11
Residual Chlorine	0.26	Н	1	0.016	0.10	mg/L		12/05/24 16:21	SM 4500-Cl
									G-11
TSS	8.00		1	1.00	4.00	mg/L		12/09/24 11:00	SM 2540 D-15

Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

D = Dilution

Q = indicates LCS control criteria did not meet requirements

H = Sample Analysis Out Of Hold Time

J = Estimated Value

B = Analyte Found in Associated Method Blank

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

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

OR = Over Range

N =Spiked sample recovery not within control limits



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

Fax: 908 789 8922

Report of Analysis

Client: VERINA CONSULTING GROUP, LLC Date Collected: 12/05/24 10:43

Project: Rotor Clip - PO# 5183.0001 Date Received: 12/05/24
Client Sample ID: WATER TREATMENT DISCHARGE SDG No.: P5141

Lab Sample ID: P5141-02 Matrix: WATER

% Solid: 0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Cyanide	0.0024	J	1	0.00099	0.0050	mg/L	12/07/24 10:00	12/09/24 12:54	9012B
Oil and Grease	1.10	J	1	0.40	5.00	mg/L		12/06/24 10:30	1664A

Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

D = Dilution

Q = indicates LCS control criteria did not meet requirements

H = Sample Analysis Out Of Hold Time

J = Estimated Value

B = Analyte Found in Associated Method Blank

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

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

OR = Over Range

N =Spiked sample recovery not within control limits



QC RESULT SUMMARY



Fax: 908 789 8922

Initial and Continuing Calibration Verification

Client: VERINA CONSULTING GROUP, LLC SDG No.: P5141

Analyte		Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID: Residual	ICV Chlorine	mg/L	0.414	0.4	104	90-110	12/05/2024
Sample ID: Residual	CCV1 Chlorine	mg/L	0.404	0.4	101	90-110	12/05/2024
Sample ID: Residual	CCV2 Chlorine	mg/L	0.404	0.4	101	90-110	12/05/2024



Initial and Continuing Calibration Verification

Client: VERINA CONSULTING GROUP, LLC SDG No.: P5141

Analyte		Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID:	ICV	mg/L	51.341	50	103	95-105	10/14/2024
Sample ID:	CCV1	mg/L	51.341	50	103	95-105	12/09/2024
Sample ID:	CCV2	mg/L	50.336	50	101	95-105	12/09/2024
Sample ID:	CCV3	mg/L	51.341	50	103	95-105	12/09/2024



Initial and Continuing Calibration Verification

Client: VERINA CONSULTING GROUP, LLC SDG No.: P5141

Analyte		Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID:	ICV1						
Ammonia as N		mg/L	1	1	100	90-110	12/09/2024
Sample ID:	CCV1						
Ammonia as N		mg/L	1.1	1	110	90-110	12/09/2024
Sample ID:	CCV2						
Ammonia as N		mg/L	1	1	100	90-110	12/09/2024
Sample ID:	CCV3						
Ammonia as N		mg/L	1	1	100	90-110	12/09/2024
Sample ID:	CCV4						
Ammonia as N		mg/L	1	1	100	90-110	12/09/2024



Initial and Continuing Calibration Verification

Client: VERINA CONSULTING GROUP, LLC SDG No.: P5141

Analyte		Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID: Cyanide	ICV1	mg/L	0.1	0.099	101	90-110	12/09/2024
Sample ID: Cyanide	CCV1	mg/L	0.26	0.25	104	90-110	12/09/2024
Sample ID: Cyanide	CCV2	mg/L	0.25	0.25	100	90-110	12/09/2024
Sample ID: Cyanide	CCV3	mg/L	0.27	0.25	108	90-110	12/09/2024



Fax: 908 789 8922

Initial and Continuing Calibration Blank Summary

Client: VERINA CONSULTING GROUP, LLC SDG No.: P5141

Analyte		Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID: Residual	ICB Chlorine	mg/L	< 0.0500	0.0500	U	0.016	0.1	12/05/2024
Sample ID: Residual	CCB1 Chlorine	mg/L	< 0.0500	0.0500	Ū	0.016	0.1	12/05/2024
Sample ID: Residual	CCB2 Chlorine	mg/L	< 0.0500	0.0500	U	0.016	0.1	12/05/2024



Fax: 908 789 8922

Initial and Continuing Calibration Blank Summary

Client: VERINA CONSULTING GROUP, LLC SDG No.: P5141

Analyte		Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID:	ICB	mg/L	< 5.0000	5.0000	U	2.35	10	10/14/2024
Sample ID:	CCB1	mg/L	< 5.0000	5.0000	U	2.35	10	12/09/2024
Sample ID:	CCB2	mg/L	< 5.0000	5.0000	U	2.35	10	12/09/2024
Sample ID:	CCB3	mg/L	< 5.0000	5.0000	U	2.35	10	12/09/2024



Fax: 908 789 8922

Initial and Continuing Calibration Blank Summary

Client: VERINA CONSULTING GROUP, LLC SDG No.: P5141

Analyte	Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID: ICB1							
Ammonia as N	mg/L	< 0.0500	0.0500	U	0.045	0.1	12/09/2024
Sample ID: CCB1							
Ammonia as N	mg/L	< 0.0500	0.0500	U	0.045	0.1	12/09/2024
Sample ID: CCB2							
Ammonia as N	mg/L	< 0.0500	0.0500	U	0.045	0.1	12/09/2024
Sample ID: CCB3							
Ammonia as N	mg/L	< 0.0500	0.0500	U	0.045	0.1	12/09/2024
Sample ID: CCB4							
Ammonia as N	mg/L	< 0.0500	0.0500	U	0.045	0.1	12/09/2024



Initial and Continuing Calibration Blank Summary

Client: VERINA CONSULTING GROUP, LLC SDG No.: P5141

Analyte		Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID: Cyanide	ICB1	mg/L	< 0.0025	0.0025	U	0.00099	0.005	12/09/2024
Sample ID: Cyanide	CCB1	mg/L	< 0.0025	0.0025	U	0.00099	0.005	12/09/2024
Sample ID: Cyanide	CCB2	mg/L	< 0.0025	0.0025	U	0.00099	0.005	12/09/2024
Sample ID: Cyanide	CCB3	mg/L	< 0.0025	0.0025	U	0.00099	0.005	12/09/2024



Preparation Blank Summary

Client: VERINA CONSULTING GROUP, LLC SDG No.: P5141

Project: Rotor Clip - PO# 5183.0001

Analyte	Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID: LB	133768BL						
Residual Chlori	ne mg/L	< 0.0500	0.0500	U	0.016	0.1	12/05/2024
Sample ID: LB	133770BL						
BOD5	mg/L	< 0.2000	0.2000	U	0.17	2.0	12/05/2024
Sample ID: LB	133785BL						
Oil and Grease	mg/L	< 2.5000	2.5000	U	0.4	5.0	12/06/2024
Sample ID: LB	133837BL						
COD	mg/L	< 5.0000	5.0000	U	2.35	10.0	12/09/2024
Sample ID: LB	133838BL						
TSS	mg/L	< 2.0000	2.0000	U	1	4	12/09/2024
Sample ID: PB	165461BL						
Ammonia as N	mg/L	< 0.0500	0.0500	U	0.045	0.1	12/09/2024
Sample ID: PB	165498BL						
Cyanide	mg/L	< 0.0025	0.0025	U	0.00099	0.005	12/09/2024



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

Fax: 908 789 8922

Matrix Spike Summary

Client: VERINA CONSULTING GROUP, LLC SDG No.: P5141

Project: Rotor Clip - PO# 5183.0001 Sample ID: P5093-02

Client ID: LL-001-FB-12-4-24MS Percent Solids for Spike Sample: 0

		Acceptance	Spiked	Conc.	Sample	Conc.	Spike	Dilution	%		Analysis
Analyte	Units	Limit %R	Result	Qualifier	Result	Qualifier	Added	Factor	Rec	Qual	Date
Cvanide	mg/L	75-125	0.038		0.00099	U	0.04	1	95		12/09/2024



Fax: 908 789 8922

Matrix Spike Summary

Client: VERINA CONSULTING GROUP, LLC SDG No.: P5141

Project: Rotor Clip - PO# 5183.0001 Sample ID: P5093-02

Client ID: LL-001-FB-12-4-24MSD Percent Solids for Spike Sample: 0

		Acceptance	Spiked	Conc.	Sample	Conc.	Spike	Dilution	%		Analysis
Analyte	Units	Limit %R	Result	Qualifier	Result	Qualifier	Added	Factor	Rec	Qual	Date
Cvanide	mg/L	75-125	0.038		0.00099	U	0.04	1	95		12/09/2024



 ${\tt 284~Sheffield~Street,~Mountainside,~New~Jersey~07092,~Phone:908~789~8900,}\\$

Fax: 908 789 8922

Matrix Spike Summary

Client: VERINA CONSULTING GROUP, LLC SDG No.: P5141

Project: Rotor Clip - PO# 5183.0001 Sample ID: P5139-01

Client ID: 001-WILLETS-PT-BLVD(DEC)MS Percent Solids for Spike Sample: 0

		Acceptance	Spiked	Conc.	Sample	Conc.	Spike	Dilution	%		Analysis	
Analyte	Units	Limit %R	Result	Qualifier	Result	Qualifier	Added	Factor	Rec	Qual	Date	
Ammonia as N	mg/L	75-125	2.80	OR	1.80		1	1	100		12/09/2024	•



Fax: 908 789 8922

Matrix Spike Summary

Client: VERINA CONSULTING GROUP, LLC SDG No.: P5141

Project: Rotor Clip - PO# 5183.0001 Sample ID: P5139-01

Client ID: 001-WILLETS-PT-BLVD(DEC)MSD Percent Solids for Spike Sample: 0

		Acceptance	Spiked	Conc.	Sample	Conc.	Spike	Dilution	%		Analysis	
Analyte	Units	Limit %R	Result	Qualifier	Result	Qualifier	Added	Factor	Rec	Qual	Date	
Ammonia as N	mg/L	75-125	2.90	OR	1.80		1	1	110		12/09/2024	_



Fax: 908 789 8922

Matrix Spike Summary

Client: VERINA CONSULTING GROUP, LLC SDG No.: P5141

Project: Rotor Clip - PO# 5183.0001 Sample ID: P5141-01

Client ID: WATER TREATMENT DISCHARGEMS Percent Solids for Spike Sample: 0

		Acceptance	Spiked	Conc.	Sample	Conc.	Spike	Dilution	%		Analysis	
Analyte	Units	Limit %R	Result	Qualifier	Result	Qualifier	Added	Factor	Rec	Qual	Date	
Residual Chlorine	mg/L	71-148	0.68		0.26		0.4	1	103		12/05/2024	



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

Fax: 908 789 8922

Matrix Spike Summary

Client: VERINA CONSULTING GROUP, LLC SDG No.: P5141

Project: Rotor Clip - PO# 5183.0001 Sample ID: P5141-01

Client ID: WATER TREATMENT DISCHARGEMSD Percent Solids for Spike Sample: 0

		Acceptance	Spiked	Conc.	Sample	Conc.	Spike	Dilution	%		Analysis	
Analyte	Units	Limit %R	Result	Qualifier	Result	Qualifier	Added	Factor	Rec	Qual	Date	
Residual Chlorine	mg/L	71-148	0.67		0.26		0.4	1	101		12/05/2024	



Fax: 908 789 8922

Matrix Spike Summary

Client: VERINA CONSULTING GROUP, LLC SDG No.: P5141

Project: Rotor Clip - PO# 5183.0001 **Sample ID:** P5141-02

Client ID: WATER TREATMENT DISCHARGEMS Percent Solids for Spike Sample: 0

		Acceptance	Spiked	Conc.	Sample	Conc.	Spike	Dilution	%		Analysis	
Analyte	Units	Limit %R	Result	Qualifier	Result	Qualifier	Added	Factor	Rec	Qual	Date	
Oil and Grease	mg/L	78-114	21.3		1.10	J	20.0	1	101		12/06/2024	_



Fax: 908 789 8922

Matrix Spike Summary

Client: VERINA CONSULTING GROUP, LLC SDG No.: P5141

Project: Rotor Clip - PO# 5183.0001 Sample ID: P5141-02

Client ID: WATER TREATMENT DISCHARGEMSD Percent Solids for Spike Sample: 0

		Acceptance	Spiked	Conc.	Sample	Conc.	Spike	Dilution	%		Analysis
Analyte	Units	Limit %R	Result	Qualifier	Result	Qualifier	Added	Factor	Rec	Qual	Date
Oil and Grease	mg/L	78-114	21.7		1.10	J	20.0	1	103		12/06/2024



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

Fax: 908 789 8922

Matrix Spike Summary

Client: VERINA CONSULTING GROUP, LLC SDG No.: P5141

Project: Rotor Clip - PO# 5183.0001 Sample ID: P5143-01

Client ID: DSN002MS Percent Solids for Spike Sample: 0

		Acceptance	Spiked	Conc.	Sample	Conc.	Spike	Dilution	%		Analysis	
Analyte	Units	Limit %R	Result	Qualifier	Result	Qualifier	Added	Factor	Rec	Qual	Date	_
COD	mg/L	75-125	118		71.5		50.0	1	93		12/09/2024	•



Fax: 908 789 8922

Matrix Spike Summary

Client: VERINA CONSULTING GROUP, LLC SDG No.: P5141

Project: Rotor Clip - PO# 5183.0001 Sample ID: P5143-01

Client ID: DSN002MSD Percent Solids for Spike Sample: 0

		Acceptance	Spiked	Conc.	Sample	Conc.	Spike	Dilution	%		Analysis
Analyte	Units	Limit %R	Result	Qualifier	Result	Qualifier	Added	Factor	Rec	Qual	Date
COD	mg/L	75-125	116		71.5		50.0	1	89		12/09/2024



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

Fax: 908 789 8922

Matrix Spike Summary

Client: VERINA CONSULTING GROUP, LLC SDG No.: P5141

Project: Rotor Clip - PO# 5183.0001 Sample ID: P5146-01

Client ID: EFFLUENTMS Percent Solids for Spike Sample: 0

		Acceptance	Spiked	Conc.	Sample	Conc.	Spike	Dilution	%		Analysis	
Analyte	Units	Limit %R	Result	Qualifier	Result	Qualifier	Added	Factor	Rec	Qual	Date	
Oil and Grease	mg/L	78-114	46.6		26.3		20.0	1	102		12/06/2024	



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

Fax: 908 789 8922

Matrix Spike Summary

Client: VERINA CONSULTING GROUP, LLC SDG No.: P5141

Project: Rotor Clip - PO# 5183.0001 Sample ID: P5146-01

Client ID: EFFLUENTMSD Percent Solids for Spike Sample: 0

		Acceptance	Spiked	Conc.	Sample	Conc.	Spike	Dilution	%		Analysis	
Analyte	Units	Limit %R	Result	Qualifier	Result	Qualifier	Added	Factor	Rec	Qual	Date	
Oil and Grease	mg/L	78-114	45.9		26.3		20.0	1	98		12/06/2024	



Fax: 908 789 8922

Duplicate Sample Summary

Client: VERINA CONSULTING GROUP, LLC SDG No.: P5141

Project: Rotor Clip - PO# 5183.0001 Sample ID: P5068-01

Client ID: 14B-1DUP Percent Solids for Spike Sample: 0

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/ AD	Qual	Analysis Date
TSS	mg/L	+/-5	4500		4530		1	0.66		12/09/2024



Fax: 908 789 8922

Duplicate Sample Summary

Client: VERINA CONSULTING GROUP, LLC SDG No.: P5141

Project: Rotor Clip - PO# 5183.0001 **Sample ID:** P5074-02

Client ID: COMPDUP Percent Solids for Spike Sample: 0

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/ AD	Qual	Analysis Date	
BOD5	mg/L	+/-20	1250		1210		1	3.02		12/05/2024	



Fax: 908 789 8922

Duplicate Sample Summary

Client: VERINA CONSULTING GROUP, LLC SDG No.: P5141

Project: Rotor Clip - PO# 5183.0001 **Sample ID:** P5093-02

Client ID: LL-001-FB-12-4-24DUP 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
Cvanide	mg/L	+/-20	0.00099	U	0.00099	U	1	0		12/09/2024



Fax: 908 789 8922

Duplicate Sample Summary

Client: VERINA CONSULTING GROUP, LLC SDG No.: P5141

Project: Rotor Clip - PO# 5183.0001 **Sample ID:** P5093-02

Client ID: LL-001-FB-12-4-24MSD 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
Cvanide	mg/L	+/-20	0.038		0.038		1	0		12/09/2024



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

Fax: 908 789 8922

Duplicate Sample Summary

Client: VERINA CONSULTING GROUP, LLC SDG No.: P5141

Project: Rotor Clip - PO# 5183.0001 Sample ID: P5139-01

Client ID: 001-WILLETS-PT-BLVD(DEC)DUP 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	
Ammonia as N	mg/L	+/-20	1.80		1.80		1	0		12/09/2024	



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

Fax: 908 789 8922

Duplicate Sample Summary

Client: VERINA CONSULTING GROUP, LLC SDG No.: P5141

Project: Rotor Clip - PO# 5183.0001 Sample ID: P5139-01

Client ID: 001-WILLETS-PT-BLVD(DEC)MSD 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	
Ammonia as N	mg/L	+/-20	2.80	OR	2.90	OR	1	4		12/09/2024	



 ${\tt 284~Sheffield~Street,~Mountainside,~New~Jersey~07092,~Phone:908~789~8900,}\\$

Fax: 908 789 8922

Duplicate Sample Summary

Client: VERINA CONSULTING GROUP, LLC SDG No.: P5141

Client ID: WATER TREATMENT DISCHARGEDUP 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	
Residual Chlorine	mg/L	+/-20	0.26		0.24		1	7.91		12/05/2024	



 ${\tt 284~Sheffield~Street,~Mountainside,~New~Jersey~07092,~Phone:908~789~8900,}\\$

Fax: 908 789 8922

Duplicate Sample Summary

Client: VERINA CONSULTING GROUP, LLC SDG No.: P5141

Project: Rotor Clip - PO# 5183.0001 **Sample ID:** P5141-01

Client ID: WATER TREATMENT DISCHARGEMSD 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	
Residual Chlorine	mg/L	+/-20	0.68		0.67		1	1.49		12/05/2024	



Fax: 908 789 8922

Duplicate Sample Summary

Client: VERINA CONSULTING GROUP, LLC SDG No.: P5141

Project: Rotor Clip - PO# 5183.0001 **Sample ID:** P5141-02

Client ID: WATER TREATMENT DISCHARGEMSD 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	
Oil and Grease	mg/L	+/-18	21.3		21.7		1	1.86		12/06/2024	



Fax: 908 789 8922

Duplicate Sample Summary

Client: VERINA CONSULTING GROUP, LLC SDG No.: P5141

Client ID: DSN002DUP Percent Solids for Spike Sample: 0

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/ AD	Qual	Analysis Date	
COD	mg/L	+/-20	71.5		72.5		1	1.39		12/09/2024	



Fax: 908 789 8922

Duplicate Sample Summary

Client: VERINA CONSULTING GROUP, LLC SDG No.: P5141

Project: Rotor Clip - PO# 5183.0001 Sample ID: P5143-01

Client ID: DSN002MSD Percent Solids for Spike Sample: 0

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/ AD	Qual	Analysis Date	
COD	mg/L	+/-20	118		116		1	1.71		12/09/2024	



Fax: 908 789 8922

Duplicate Sample Summary

Client: VERINA CONSULTING GROUP, LLC SDG No.: P5141

Client ID: EFFLUENTMSD 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	
Oil and Grease	mg/L	+/-18	46.6		45.9		1	1.51		12/06/2024	





Laboratory Control Sample Summary

Client: VERINA CONSULTING GROUP, LLC SDG No.: P5141

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID LB133768BS								
Residual Chlorine	mg/L	0.4	0.41		104	1	90-110	12/05/2024





Fax: 908 789 8922

Laboratory Control Sample Summary

Client: VERINA CONSULTING GROUP, LLC SDG No.: P5141

Analyte		Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID	LB133770BS								
BOD5		mg/L	198	212		107	1	84.6-115.4	12/05/2024





Laboratory Control Sample Summary

Client: VERINA CONSULTING GROUP, LLC SDG No.: P5141

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID LB133785BS								
Oil and Grease	mg/L	20.0	16.8		84	1	78-114	12/06/2024





Fax: 908 789 8922

Laboratory Control Sample Summary

Client: VERINA CONSULTING GROUP, LLC SDG No.: P5141

Analyte		Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID	LB133837BS								
COD		mg/L	50	49.3		99	1	90-110	12/09/2024





Laboratory Control Sample Summary

Client: VERINA CONSULTING GROUP, LLC SDG No.: P5141

Analyte		Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID	LB133838BS								
TSS		mg/L	550	530		96	1	90-110	12/09/2024





Fax: 908 789 8922

Laboratory Control Sample Summary

Client: VERINA CONSULTING GROUP, LLC SDG No.: P5141

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID PB165461BS								
Ammonia as N	mg/L	1	1.00		100	1	90-110	12/09/2024





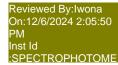
Laboratory Control Sample Summary

Client: VERINA CONSULTING GROUP, LLC SDG No.: P5141

Analyte		Units	True Value		Conc. % Qualifier Recov		Acceptance Limit %R	Analysis Date
Sample ID	PB165498BS							_
Cyanide		mg/L	0.1	0.10	100	1	85-115	12/09/2024



RAW DATA





Analytical Summary Report

Analysis Method: SM4500 Cl G ANALYST: Niha

Parameter: Residual Chlorine SUPERVISOR REVIEW BY: Iwona

Run Number: LB133768

Reagent/Standard	Lot/Log #
Residual chlorine ICV-LCS, 0.4PPM	WP110973
Chlorine Calibration std, 0.1ppm	WP110968
Chlorine Calibration std, 0.2ppm	WP110969
Chlorine Calibration std, 0.8ppm	WP110970
Chlorine Calibration std, 0.0ppm	WP110967
Chlorine Calibration std, 1.6ppm	WP110971
Residual Chlorine Calibration and CCV std, 0	WP110972
Total Chlorine Powder Pillows	W3147

Intercept: -0.0014 Slope: 0.9931 Regression: 0.999590

Seq	Lab ID	True Val	DF	Initial Reading	Final Reading	Difference	Result (mg/l)	%D	AnalDate	Anal Time
1	CAL1	0	1	0.000	0.000	0.000	0.00		12/05/2024	15:45
2	CAL2	0.1	1	0.000	0.100	0.100	0.10	2	12/05/2024	15:48
3	CAL3	0.2	1	0.000	0.200	0.200	0.20	1.5	12/05/2024	15:51
4	CAL4	0.4	1	0.000	0.410	0.410	0.41	3.5	12/05/2024	15:54
5	CAL5	0.8	1	0.000	0.760	0.760	0.77	-4.1	12/05/2024	15 : 57
6	CAL6	1.6	1	0.000	1.600	1.600	1.61	0.8	12/05/2024	16:00

Reviewed By:Iwona On:12/6/2024 2:05:50 PM Inst Id :SPECTROPHOTOME

Analytical Summary Report



Analysis Method: SM4500 Cl G ANALYST: Niha

Parameter: Residual Chlorine SUPERVISOR REVIEW BY: Iwona

Run Number: LB133768

Seq	Lab ID	Initial Weight	Final Vol	True Value (mg/L)	DF	Initial Reading	Final Reading	Diff.	Result (mg/L)	Anal Date	Anal Time
1	ICV			0.4	1	0.0000	0.4100	0.4100	0.4140	12/05/2024	16:03
2	ICB				1	0.0000	0.0000	0.0000	0.0010	12/05/2024	16:06
3	CCV1			0.4	1	0.0000	0.4000	0.4000	0.4040	12/05/2024	16:09
4	CCB1				1	0.0000	0.0000	0.0000	0.0010	12/05/2024	16:12
5	LB133768BL	50	50		1	0.0000	0.0000	0.0000	0.0010	12/05/2024	16:15
6	LB133768BS	50	50	0.4	1	0.0000	0.4100	0.4100	0.4140	12/05/2024	16:18
7	P5141-01	50	50		1	0.0000	0.2600	0.2600	0.2630	12/05/2024	16:21
8	P5141-01DUP	50	50		1	0.0000	0.2400	0.2400	0.2430	12/05/2024	16:24
9	P5141-01MS	50	50	0.4	1	0.0000	0.6700	0.6700	0.6760	12/05/2024	16:27
10	P5141-01MSD	50	50	0.4	1	0.0000	0.6600	0.6600	0.6660	12/05/2024	16:30
11	CCV2			0.4	1	0.0000	0.4000	0.4000	0.4040	12/05/2024	16:33
12	CCB2				1	0.0000	0.0000	0.0000	0.0010	12/05/2024	16:36

SM4500 CI G

12/05/2024

M11

VERI01

WORKLIST(Hardcopy Internal Chain)

Date: 12-05-2024 13:03:19 Collect Date Method Raw Sample Storage Location Customer Department: Wet-Chemistry Cool 4 deg C Preservative Residual Chlorine 186013 Test WorkList ID: Matrix WATER TREATMENT DISCHAF Water RESIDUAL CHLORINE-1 **Customer Sample** WorkList Name: P5141-01 Sample

19.05.2020 Raw Sample Received by: Date/Time

Reviewed By:Iwona
On:12/6/2024 2:05:50
PM
Inst Id
:SPECTROPHOTOME

Raw Sample Relinquished by:

Page 1 of 1

Date/Time 12.05 2024, 15; 40

Raw Sample Relinquished by:

Raw Sample Received by:

Alliance

QC BATCH ID: LB133770

Sulfuric acid, 1N: WP110386

Chlorine Strips: W3155

pH Strips: W3140

BOD Water: WP110974

Starch: W3149

POLYSEED: WP110976

GGA: WP110975

BOD5 LOG

ANALYST: rubir nst ld:DO METER

Reviewed By:lwona On:12/12/2024 9:48:12

SUPERVISOR: Iwona

Analysis Date: 12/05/2024

MANGANOUS SULFATE SOLUTION: W3103

Alkaline Iodide Azide: W3109

Sodium Thiosulfate, 0.025N: W3105

NaOH, 1N: WP108662

IncubatorID: INCUBATOR #3

GuageID: 0511062

Zero DO: WP110595

Lab SampleID	Client ID	Bottle No.	VOL.	Initial Reading(ML)	Final Reading(ML)	Difference	Average
WINKLER 1	WINKLER 1	1	300	0.0	9.8	9.8	9.8
WINKLER 2	WINKLER 2	2	300	9.4	19.2	9.8	9.8

Barometric Pressure1: 755 mmHg DO Meter BOD fluid reading for winkler comparison: 9.83

After Incubation

Meter Calibration2: 8.95 Zero DO Reading2: 0.14 mg/L (<=0.2 Criteria)

Barometric Pressure2: 765 mmHg



QC BATCH ID: LB133770

INCUBATOR TEMP IN(C): 19.9

TIME IN: 17:40

DATE IN: 12/05/2024

INCUBATOR TEMP OUT (C): 20.0

TIME OUT: 13:45

DATE OUT: 12/10/2024

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
LB133770BL	1	No	6.65	N/A	20.40	300	9.82	9.80	0.02	0.02	0.02	
POLYSEED	1					10	9.74	7.40	2.34	0.47	0.58	
POLYSEED	2					15	9.72	5.12	4.6	0.61		
POLYSEED	3					20	9.65	3.01	6.64	0.66		
GGA	1					6	9.76	5.05	4.71	206.5	211.5	
GGA	2					6	9.72	4.89	4.83	212.5		
GGA	3					6	9.70	4.81	4.89	215.5		
P5074-02	1	No	5.29	6.92	20.20	0.5	9.79	7.17	2.62	1224	1245	pH Adjuste
P5074-02	2					1	9.74	4.65	5.09	1353		
P5074-02	3					2	9.69	1.39	8.3	1158		
P5074-02	4					3	9.58	0.56	-	0		
P5074-02DUP	1	No	5.29	6.92	20.20	0.5	9.79	7.28	2.51	1158	1208	pH Adjuste
P5074-02DUP	2					1	9.74	4.73	5.01	1329		
P5074-02DUP	3					2	9.67	1.51	8.16	1137		
P5074-02DUP	4					3	9.60	0.57	-	0		
P5139-01	1	No	6.22	6.79	20.00	5	9.64	4.36	5.28	282	175.5	pH Adjuste
P5139-01	2					20	9.35	4.17	5.18	69		
P5139-01	3					50	7.98	0.58	-	0		
P5139-01	4					150	4.28	0.46	-	0		
P5139-02	1	No	6.31	6.84	20.00	5	9.65	7.35	2.3	103.2	92.85	pH Adjuste
P5139-02	2					20	9.34	3.26	6.08	82.5		
P5139-02	3					50	8.42	0.57	-	0		
P5139-02	4					150	4.56	0.45	-	0		
P5141-01	1	No	9.61	7.19	20.00	5	9.79	8.84	-	0	30.98	pH Adjuste
P5141-01	2					20	9.76	7.45	2.31	25.95		
P5141-01	3					50	9.70	3.12	6.58	36		
P5141-01	4					150	9.65	0.55	-	0		
P5143-01	1	No	7.11	N/A	20.00	5	9.63	9.00	-	0		
P5143-01	2					20	9.58	8.60	-	0		
P5143-01	3					50	9.52	8.20	-	0		
P5143-01	4					150	8.78	8.00	-	0		
P5143-03	1	No	7.14	N/A	20.00	5	9.68	9.01	-	0		
P5143-03	2					20	9.65	8.91	-	0		
P5143-03	3					50	9.62	8.40	-	0		
P5143-03	4					150	9.60	7.99	-	0		
P5143-05	1	No	6.91	N/A	20.00	5	9.70	8.90	-	0		
P5143-05	2					20	9.68	8.47	-	0		
P5143-05	3					50	9.65	8.38	-	0		
P5143-05	4					150	9.60	7.96	-	0		
P5145-01	1	No	7.17	N/A	20.00	5	9.80	8.43	-	0	22.35	
P5145-01	2					20	9.78	7.79	-	0		

Reviewed By:Iwona On:12/12/2024 9:48:12 50 P5145-01 3 9.75 3.68 6.07 32.94 Inst Id :DO METER P5145-01 4 150 9.74 3.28 6.46 11.76 LB:LB133770 pH Adjuste P5146-01 1 No 8.66 7.19 20.00 0.5 9.80 1.01 8.79 4926 4926 P5146-01 2 1 9.72 0.31 P5146-01 3 2 9.53 0.20 P5146-01 4 5 9.18 0.19 P5146-01 5 10 0.15 8.60 P5146-05 6.80 20.00 0.01 9.72 7.24 57000 32320 1 4.47 2.48 pH Adjuste No P5146-05 2 0.05 9.66 5.07 4.59 24060 P5146-05 3 3.76 15900 0.1 9.64 5.88 P5146-05 4 0.5 9.22 0.16

1

8.51

0.11

NOTE: 2ml POLYSEED added to GGA and all the Samples, but not in Blank. NOTE (For, CBOD5): 0.16 g Nitrification Inhibitor added to GGA and all the Samples, but not in Blank.

P5146-05

WORKLIST(Hardcopy Internal Chain)

05456197

WorkList Name: bod-12-05

WORKLIST NAME:	bod-12-05	WorkList ID:	D: 186023	Department :	Department: Wet-Chemistry	1		
Sample					(Inclination)	Dai	Date: 12-05-2024 15:34:08	124 15:34:08
	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage	Collect Date Method	Method
P5141-01	WATER TREATMENT PLOS					Coation		
	Water Men DISCHAL Water		BODS	Cool 4 dea C	VEDIO			
P5143-01	DSN002	Water	BODE		VERIOI	M11	12/05/2024	12/05/2024 SM5210 B
P5143-03	7001400			Cool 4 deg C	PSEG04	L51	12/05/2024	10,0110
3	DSMU01	Water	BOD5	Cool 4 does			12/03/2024	12/03/2024 SIM5Z10 B
P5143-05	DSNO03			Cool 4 neg C	PSEG04	L51	12/05/2024	12/05/2024 SM5210 B
		water	BOD5	Cool 4 den C	1000			
P5145-01	286085	Marke		O Rep L	PSEG04	L51	12/05/2024	12/05/2024 SM5210 B
		water	BODS	Cool 4 deg C	DOE COS	-		
				,	20010	L51	12/05/2024	12/05/2024 SM5210 B

12/05/2024 SM5210 B

Date/Time 12/05/2024 Raw Sample Relinquished by: Raw Sample Received by:

Page 1 of 1

Date/Time 12/05/2024

Raw Sample Relinquished by: Raw Sample Received by:

WORKLIST(Hardcopy Internal Chain)

					•		ı	
WorkList Name :	bod5-12-5	WorkList ID :	ID: 185986	Department :	Department: Wet-Chemistry	č	12.0E.20	0 7 0 7 0 7 0 7 0 7 0 7 0 7 0 7 0 7 0 7
Sample						Š	Cate: 12-03-2024 08:13:17	24 08:13:17
	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date Method	Method
P5074-02	COMP		The state of the s					
		Water	BODS	Cool 4 dea C				
P5139-01	001-WILLETS-PT-BLVD/DEC			O fient inco	AKAM01	M11	12/04/2024	12/04/2024 SM5210 B
	יייייייייייייייייייייייייייייייייייייי	water	BODS	Cool 4 dea C	F	1		
P5139-02	002-35TH-AVE(DEC)	Water	BODE		IOLEU	L51	12/04/2024	12/04/2024 SM5210 B
D51/E 01			coco	Cool 4 deg C	TULL01	L51	12/04/2024	201710
	EFFLUENT	Water	BOD5	0 - 7 - 7 - 7			4707/40/71	12/04/2024 SIMISZ10 B
P5146-05	HAUL			Cool 4 deg C	HOLL01	M11	12/05/2024	12/05/2024 SM5210 B
	INI COEINI	Water	BOD5	0.001				CINIO2 10 D
				O fian + Iooo	HOLL01	M11	12/05/2021	12/05/2024 CME240 E
							2000	

12/05/2024 SM5210 B

Raw Sample Received by: Date/Time 12/05/2014

Raw Sample Relinquished by:

Page 1 of 1

Raw Sample Received by:

Date/Time

Raw Sample Relinquished by:



Extraction and Analytical Summary Report

Analysis Method: 1664A

Test: Oil and Grease

Run Number: LB133785

Analysis Date: 12/06/2024

BalanceID: WC SC-6

OvenID: EXT OVEN-3

ANALYST: jignesh

REVIEWED BY: Iwona

Extraction Date: 12/06/2024

Extration IN Time: $\overline{09:25}$

Extration OUT Time: 09:48

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

Dish #	Lab ID	Client ID	Matrix	pН	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	LB133785BL	LB133785BL	WATER	1.3	1000	100	3.2556	3.2556	0	3.2556	3.2556	0.0000	0
2	LB133785BS	LB133785BS	WATER	1.3	1000	100	2.7413	2.7413	0	2.7581	2.7581	0.0168	16.8
3	P5138-01	001-WILLETS-PT-BLVD(NC	WATER	1.6	1000	100	3.0604	3.0604	0	3.0876	3.0876	0.0272	27.2
4	P5138-02	002-35TH-AVE (NOV)	WATER	1.6	1000	100	3.0684	3.0684	0	3.0942	3.0942	0.0258	25.8
5	P5139-01	001-WILLETS-PT-BLVD(DE	WATER	1.6	1000	100	3.0681	3.0681	0	3.0745	3.0745	0.0064	6.4
6	P5139-02	002-35TH-AVE (DEC)	WATER	1.6	1000	100	3.0997	3.0997	0	3.1071	3.1071	0.0074	7.4
7	P5141-02	WATER TREATMENT DISCHA	WATER	1.3	1000	100	3.0837	3.0837	0	3.0848	3.0848	0.0011	1.1
8	P5141-03	P5141-02MS	WATER	1.3	1000	100	3.1156	3.1156	0	3.1369	3.1369	0.0213	21.3
9	P5141-04	P5141-02MSD	WATER	1.3	1000	100	3.1967	3.1967	0	3.2184	3.2184	0.0217	21.7
10	P5146-01	EFFLUENT	WATER	1.6	1000	100	3.1151	3.1151	0	3.1414	3.1414	0.0263	26.3
11	P5146-02	P5146-01MS	WATER	1.6	1000	100	2.8633	2.8633	0	2.9099	2.9099	0.0466	46.6
12	P5146-03	P5146-01MSD	WATER	1.6	1000	100	3.0521	3.0521	0	3.0980	3.0980	0.0459	45.9



QC Batch# LB133785

Test: Oil and Grease

Analysis Date: 12/06/2024

Chemicals Used:

Chemical Name	Chemical Lot #
HEXANE	W3153
pH Paper 0-14	M6069
Sodium Sulfate	EP2570
1:1 HCL	WP110826
Silica Gel	NA
Sand	NA

Standards Used:

Standard Name	Amount Used	Standard Lot #
LCSW	2.5 ML	WP100827
LCSWD	NA	NA
MS/MSD	2.5 ML	WP100828

BALANCE CALIBRATION / OVEN Dessicator Data

Analytical Balance ID # : WC SC-6

Before Analysis

0.0020 gram Balance: 0.0019 (0.0018-0.0022) In OVEN TEMP1 : 70 °C Dessicator Time In1 : 11:36

1.0000 gram Balance: 1.0004 (0.9950-1.0050) In Time1: 10:30

Bal Check Time: 09:30 Out OVEN TEMP1: 70 °C Dessicator Time Out1: 12:15

Out Time1: 11:35

After Analysis

0.0020 gram Balance: 0.0021 (0.0018-0.0022) In OVEN TEMP2 : 71 °C Dessicator Time In2 : 13:26

1.0000 gram Balance: 1.0005 (0.9950-1.0050) In Time2: 12:45

Bal Check Time: 14:02 Out OVEN TEMP2: 71 °C Dessicator Time Out2: 14:00

Out Time2: 13:25

Reviewed By:Iwona On:12/12/2024 11:50:38 AM Inst Id :WC SC-3 LB :LB133785

Date/Time (2) 0 6/24 Raw Sample Received by:

Raw Sample Relinquished by:

Page 1 of 1

Raw Sample Received by: \mathcal{H} $\mathcal{L}(\mathcal{L}_{Q})$

Raw Sample Relinquished by:

Date/Time 12106124 091.15

FORKLIST NAME:	oll & grease p5138	WorkList ID :	D: 186059	Department : Wet-C	Wet-Chemistry	ב ב	Date . 12_06 2024 00.44.20	00.44.00
Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date Method	Method
P5138-01 (001-WILLETS-PT-BLVD(NOV)	Water	o pac jiO					
P5138-02 (OUS-35TH-AVENDOV			Conc H2SO4 to pH < 2	TULL01	L51	12/04/2024 1664A	1664A
4		water	Oil and Grease	Conc H2SO4 to pH < 2	TULL01	L51	12/04/2024	16644
P5139-01	001-WILLETS-PT-BLVD(DEC)	Water	Oil and Grease	Conc H2SO4 to pH < 2	F - 104	-	1303110131	71001
P5139-02	C 002-35TH-AVE(DEC)	Wafer	Oil and Grand	2 - 1 Id Ox 1-0 - 0	IOFFOI	L51	12/04/2024	1664A
P5141-02	A WATER TRIPETATION		Oil aild Oilease	Conc HZSO4 to pH < 2	TULL01	L51	12/04/2024 1664A	1664A
	WALER I REALMENT DISCHA	Water	Oil and Grease	Conc H2SO4 to pH < 2	VERI01	M11	12/05/2024	1004
P5141-03	P5141-02MS	Water	Oil and Grease	Conc HOSON to all a			12/03/2024	1004A
P5141-04	P5141-02MSD	Water	Oil and Graces	2 > Hq 01 +0021 10100	VERIOI	M11	12/05/2024	1664A
P5146-01	L EFELIENT		כון מווס סופסאם	Conc H2SO4 to pH < 2	VERI01	M11	12/05/2024 1664A	1664A
		Water	Oil and Grease	Conc H2SO4 to pH < 2	HOLL01	M11	12/05/2004 18644	16648
P5146-02	P5146-01MS	Water	Oil and Grease	Conc HoseA to the			4202/2021	1004A
P5146-03	P5146-01MSD	Motor		2 > Fig 0) 4002112000	HOLLU1	M11	12/05/2024	1664A
		water	Oil and Grease	Conc H2SO4 to pH < 2	HOLL01	M11	12/05/2024 1664A	1664A

UB 123485

WORKLIST(Hardcopy Internal Chain)

oil & grease p5138

WorkList Name:



Analytical Summary Report

Analysis Method: SM5220 D ANALYST: Iwona

Parameter: COD SUPERVISOR REVIEW BY: jignesh

Run Number: LB133837

Reagent/Standard	Lot/Log #
COD calibration std. 10 ppm	WP110197
COD calibration std. 150 ppm	WP110200
COD calibration std. 50 ppm	WP110198
COD calibration std. 0 ppm	WP110196
COD ICV-LCS std, 50ppm	WP110658
COD calibration std. 100 ppm	WP110199
COD ICV-LCS std, 50ppm	WP110926
COD CCV std, 50ppm	WP110925
COD Digestion Vials Low Level 0-150Mg/L	W3125

Temp In(C): 148	Date In: 12/09/2024	Time In: 09:55
Temp Out(C): 151	Date Out: 12/09/2024	Time Out: 11:55

Intercept: -0.0642 Slope: 0.9946 Regression: 0.9998

Seq	Lab ID	TrueValue (mg/l)	DF	MATRIX	Reading	Result (mg/l)	%D	Anal Date	Anal Time
. 1	CAL1	0	1	Water	0.000	0.065		10/14/2024	13:10
. 2	CAL2	10	1	Water	9.000	9.113	-8.9	10/14/2024	13:10
. 3	CAL3	50	1	Water	50.000	50.336	0.7	10/14/2024	13:11
4	CAL4	100	1	Water	101.000	101.613	1.6	10/14/2024	13:11
. 5	CAL5	150	1	Water	148.000	148.868	-0.8	10/14/2024	13:12



Analytical Summary Report

Analysis Method: SM5220 D ANALYST: Iwona

Parameter: COD SUPERVISOR REVIEW BY: jignesh

Run Number: LB133837

Seq	Lab ID	True Value (mg/l)	Initial Weight (g)	Final Vol (ml)	DF	MATRIX	Reading	Result	AnalDate	AnalTime
1	ICV	50	NA	NA	1	Water	51.000	51.341	10/14/2024	13:12
2	ICB		NA	NA	1	Water	0.000	0.065	10/14/2024	13:13
3	CCV1	50	NA	NA	1	Water	51.000	51.341	12/09/2024	14:20
4	CCB1		NA	NA	1	Water	1.000	1.070	12/09/2024	14:20
5	LB133837BL		NA	NA	1	Water	1.000	1.070	12/09/2024	14:21
6	LB133837BS	50	NA	NA	1	Water	49.000	49.331	12/09/2024	14:21
7	P5141-01		NA	NA	1	Water	138.000	138.814	12/09/2024	14:22
8	P5143-01		NA	NA	1	Water	71.000	71.450	12/09/2024	14:22
9	P5143-01DUP		NA	NA	1	Water	72.000	72.455	12/09/2024	14:23
10	P5143-01MS	50	NA	NA	1	Water	117.000	117.700	12/09/2024	14:23
11	P5143-01MSD	50	NA	NA	1	Water	115.000	115.689	12/09/2024	14:24
12	P5143-03		NA	NA	1	Water	94.000	94.575	12/09/2024	14:24
13	P5143-04		NA	NA	1	Water	97.000	97.591	12/09/2024	14:25
14	P5143-05		NA	NA	1	Water	26.000	26.206	12/09/2024	14:25
15	CCV2	50	NA	NA	1	Water	50.000	50.336	12/09/2024	14:26
16	CCB2		NA	NA	1	Water	1.000	1.070	12/09/2024	14:26
17	P5145-01		NA	NA	5	Water	107.000	107.645	12/09/2024	14:26
18	CCV3	50	NA	NA	1	Water	51.000	51.341	12/09/2024	14:27
19	CCB3		NA	NA	1	Water	1.000	1.070	12/09/2024	14:27

LB 183837

WORKLIST(Hardcopy Internal Chain)

WorkList Name: COD-120924

WorkList Name :	COD-120924	WorkList ID:	ID: 186150	Department: Wet-Chemistry	hemietry	ĺ		
					d mount	Dai	Date: 12-09-2024 09:30:34	24 09:30:34
Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date Method	Method
P5141-01	WATER TREATMENT DISCUSSION							
	PHOCH NEW PARK STATE	Water	COD	Conc H2SO4 to pH < 2	VERIO1	M44		
P5143-01	DSN002	Water	COD			IIII	12/05/2024	12/05/2024 SM5220 D
P5143-03	DSNOO4			Conc HZSO4 to pH < 2	PSEG04	L51	12/05/2024	12/05/2024 SM5220 D
	1000100	Water	COD	Conc Hose of to a long	100			CHICKEN D
P5143-04	DSN001	Water	900	S > Ld O TO STORE	PSEG04	L51	12/05/2024	12/05/2024 SM5220 D
P5143-05	COCINO	- AGIGI	200	Conc H2SO4 to pH < 2	PSEG04	L51	12/05/2024	12/05/2024 SME220 D
	DSIMOGS	Water	COD	Constitution of the state of th			1	OINISEO D
P5145-01	286085	Miles		Colic n2304 to pH < 2	PSEG04	L51	12/05/2024	12/05/2024 SM5220 D
		water	000	Conc H2SO4 to pH < 2	PSEG03	154	10,00	
						3	7/11/2/11/4	Z/12/21/24 CME2200

12/05/2024 SM5220 D

Date/Time

Raw Sample Relinquished by: Raw Sample Received by:

Page 1 of 1

06:35

Date/Time 12/09/24

Raw Sample Relinquished by: Raw Sample Received by:

15/20



TEMP4 IN:

104 °C 12/09/2024 13:00 TEMP4 OUT:

TOTAL SUSPENDED SOLIDS - SM2540D

SUPERVISOR: Iwona

ANALYST: Niha

Date: 12/06/2024

Run Number: LB133838

ThermometerID: WET OVEN#1

TEMP1 IN: 103 °C 12/06/2024 11:00 TEMP1 OUT: 104 °C 12/06/2024 12:00 BalanceID: WC SC-6

TEMP2 IN: 104 °C 12/06/2024 12:30 TEMP2 OUT: 103 °C 12/06/2024 13:30 OvenID: WC OVEN-1

TEMP3 IN: 104 °C 12/09/2024 11:00 TEMP3 OUT: 103 °C 12/09/2024 12:30 FilterID: 17416528

103 °c 12/09/2024 14:30

Dish #	Lab ID	Client ID	Empty Dish Weight (g)	Final Empty Dish Weight (g)	Sample Volume (ml)	1st Empty Dish+Sample weight after 1.5hr drying @103-@105°C (g)	2nd Empty Dish+Sample weight after 1.5hr drying @103-@105°C (g)	Final Empty Dish+Sample weight after 1.5hr drying @103-@105°C (g)	Weight (g)	Result mg/L
1	LB133838BL	LB133838BL	1.4235	1.4235	100	1.4235	1.4235	1.4235	0.0000	0
2	LB133838BS	LB133838BS	1.3952	1.3952	100	1.4482	1.4482	1.4482	0.0530	530
3	P5068-01	14B-1	1.4036	1.4036	10	1.4486	1.4486	1.4486	0.0450	4500
4	P5068-01DUP	14B-1DUP	1.4102	1.4102	10	1.4555	1.4555	1.4555	0.0453	4530
5	P5068-02	14B-2	1.4080	1.4080	10	1.4658	1.4658	1.4658	0.0578	5780
6	P5068-03	14B-3	1.3592	1.3592	10	1.4088	1.4088	1.4088	0.0496	4960
7	P5068-04	14B-4	1.3586	1.3586	10	1.4205	1.4205	1.4205	0.0619	6190
8	P5074-02	COMP	1.3585	1.3585	100	1.4460	1.4460	1.4460	0.0875	875
9	P5138-01	001-WILLETS-PT-BLVD(NOV)	1.3616	1.3616	150	1.3768	1.3768	1.3768	0.0152	101.3
10	P5138-02	002-35TH-AVE (NOV)	1.3882	1.3882	150	1.4046	1.4046	1.4046	0.0164	109.3
11	P5139-01	001-WILLETS-PT-BLVD(DEC)	1.3945	1.3945	200	1.4112	1.4112	1.4112	0.0167	83.5
12	P5139-02	002-35TH-AVE (DEC)	1.3662	1.3662	200	1.3842	1.3842	1.3842	0.0180	90
13	P5141-01	WATER TREATMENT DISCHARGE	1.3633	1.3633	500	1.3673	1.3673	1.3673	0.0040	8
14	P5142-01	TOWERS-1	1.4019	1.4019	2000	1.4123	1.4123	1.4123	0.0104	5.2
15	P5142-03	TOWERS-2	1.3938	1.3938	1000	1.4007	1.4007	1.4007	0.0069	6.9



TOTAL SUSPENDED SOLIDS - SM2540D

SUPERVISOR: Iwona

ANALYST: Niha

Date: 12/06/2024

Run Number: LB133838

BalanceID: WC SC-6

OvenID: WC OVEN-1

FilterID: 17416528

ThermometerID: WET OVEN#1

TEMP1 IN: 103 °C 12/06/2024 11:00 TEMP1 OUT: 104 °C 12/06/2024 12:00

TEMP2 IN: 104 °C 12/06/2024 12:30 TEMP2 OUT: 103 °C 12/06/2024 13:30

TEMP3 IN: 104 °C 12/09/2024 11:00 TEMP3 OUT: 103 °C 12/09/2024 12:30

TEMP4 IN: 104 °C 12/09/2024 13:00 TEMP4 OUT: 103 °C 12/09/2024 14:30

Dish #	Lab ID	Client ID	Empty Dish Weight (g)	Final Empty Dish Weight (g)	Sample Volume (ml)	1st Empty Dish+Sample weight after 1.5hr drying @103-@105°C (g)	2nd Empty Dish+Sample weight after 1.5hr drying @103-@105°C (g)	Final Empty Dish+Sample weight after 1.5hr drying @103-@105°C (g)	Weight (g)	Result mg/L
16	P5143-01	DSN002	1.3569	1.3569	1000	1.3747	1.3747	1.3747	0.0178	17.8
17	P5143-03	DSN001	1.3967	1.3967	1000	1.4128	1.4128	1.4128	0.0161	16.1
18	P5143-05	DSN003	1.3983	1.3983	2000	1.4073	1.4073	1.4073	0.0090	4.5
19	P5145-01	286085	1.3954	1.3954	300	1.6235	1.6235	1.6235	0.2281	760.3
20	P5146-01	EFFLUENT	1.4009	1.4009	10	1.4173	1.4173	1.4173	0.0164	1640
21	P5146-04	AERATION TK 1	1.4004	1.4004	10	1.4273	1.4273	1.4273	0.0269	2690
22	P5192-02	EFF-WASTE WATER	1.4120	1.4120	500	1.4276	1.4276	1.4276	0.0156	31.2

A = Sample Volume (ml)

B = Final Empty Dish Weight (g)

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

D = Weight (g)

Weight (g) = C - B

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

WORKLIST(Hardcopy Internal Chain)

Workliet Name				opy menal onally	all 1)			
	133-12052024	WorkList ID:	ID: 186012	Department :	Wet-Chemistry			
Sample						Dai	Date: 12-05-20	12-05-2024 12:33:29
	Customer Sample	Matrix	Test	Preservative	Customer	Kaw Sample Storage	Collect Date Method	Method
P5074-02	COMP	Motor	-			Location		
P5068-01	148-1	water	ISS	Cool 4 deg C	ARAM01	M11	12/04/2024	CMOSAOD
P5068-02	14B-2	water	TSS	Cool 4 deg C	NEWY17	L61	12/02/2004	O OFICE OF O
	7-01-1	Water	TSS	Cool 4 deg C	NEW/47		12/03/2024	SM2540 D
P5068-03	14B-3	Water	TSS			L61	12/03/2024	SM2540 D
P5068-04	14B-4	Water	155	Cool 4 deg C	NEWY17	L61	12/03/2024	SM2540 D
P5145-01	286085	Water	SSL	Cool 4 deg C	NEWY17	L61	12/03/2024	SM2540 D
P5142-01	TOWERS-1	Water	TSS	Cool 4 deg C	PSEG03	L51	12/05/2024	SM2540 D
P5142-03	TOWERS-2	Water	TSc	Cool 4 deg C	PSEG04	L61	12/05/2024	SM2540 D
P5143-01	DSN002	Water	25. 25.	Cool 4 deg C	PSEG04	L61	12/05/2024	SM2540 D
P5143-03	DSN001	Wafer	150	Cool 4 deg C	PSEG04	L51	12/05/2024	SM2540 D
P5143-05	DSN003	Water	20 L	Cool 4 deg C	PSEG04	L51	12/05/2024	SM2540 D
P5141-01	WATER TREATMENT DISCHAF	Water	TSS	Cool 4 deg C	PSEG04	L51	12/05/2024	SM2540 D
P5192-02	EFF-WASTE WATER	Water	SS	Cool 4 deg C	VERI01	M11	12/05/2024	SM2540 D
P5146-01	EFFLUENT	Water	887	Cool 4 deg C	ARDM01	M11	12/06/2024	SM2540 D
P5146-04	AERATION TK 1	Water	TSS	Cool 4 deg C	HOLL01	M11	12/05/2024	SM2540 D
P5138-01	001-WILLETS-PT-BLVD(NOV)	Water	SSL	Cool 4 deg C	HOLL01	M11	12/05/2024	SM2540 D
P5138-02	002-35TH-AVE(NOV)	Water	TSS	Cool 4 deg C	TULL01	L51	12/04/2024	SM2540 D
P5139-01	001-WILLETS-PT-BLVD(DEC)		ISS	Cool 4 deg C	TULL01	L51	12/04/2024	SM2540 D
P5139-02	002-35TH-AVE(DEC)	Water	TSS	Cool 4 deg C	TULL01	L51	12/04/2024	SM2540 D
			8	Cool 4 deg C	TULL01	L51	12/04/2024	SM2540 D
							1	

12.09,2024 Raw Sample Received by: Date/Time

Reviewed By:Iwona On:12/9/2024 4:07:11 PM Inst Id :WC SC-3 LB :LB133838

Raw Sample Relinquished by:

Page 1 of 1

Date/Time | 2.09.2620

Raw Sample Relinquished by: Raw Sample Received by:

CHEMTECH CONSULTING GROUP INC 284 Sheffield Street, Mountainside, NJ 07092

Reviewed by : RM Instrument ID : Konelab

12/9/2024 14:55

Test: Ammonia-N

Sample Id	Result	Dil. 1 +	Response	Errors
	1.044 -0.007 1.062 -0.008 0.089 -0.013 1.038 1.782 1.790 2.839 2.852 1.918 0.695 -0.023 1.027 0.003 10.410 3.526 1.022 -0.003 1.050 1.722 1.048 -0.001	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.141 0.029 0.143 0.029 0.040 0.029 0.140 0.219 0.220 0.331 0.333 0.233 0.104 0.028 0.139 0.030 1.134 0.404 0.138 0.030 0.141 0.213 0.141 0.213	89% (So -1So) (2/09/2024 (RM) Test limit high Test limit high Test limit high Test limit high

N	24
Mean	1.453
SD	2.1616
CV%	148.82

Aquakem v. 7.2AQ1

Results from time period:

Mon Dec 09 13:33:57 2024

Mon Dec 09 14:54:49 2024

1 1011 200 00 17		0 2024			
Sample Id	Sa	nm/Ctr/c/ Test short r Test type	Result	Result unit	Result date and time Stat
0.0PPM	Α	Ammonia-NP	-0.0238	mg/l	12/9/2024 13:33:57
0.1PPM	Α	Ammonia-1 P	0.1062	mg/l	12/9/2024 13:33:58
0.2PPM	Α	Ammonia-1 P	0.1973	mg/l	12/9/2024 13:33:59
0.4PPM	Α	Ammonia-1 P	0.3879	mg/l	12/9/2024 13:34:00
1.0PPM	Α	Ammonia-1 P	1.0493	mg/l	12/9/2024 13:34:01
1.3PPM	Α	Ammonia-NP	1.3494	mg/l	12/9/2024 13:34:02
2.0PPM	Α	Ammonia-↑P	1.967	mg/l	12/9/2024 13:34:03
ICV1	S	Ammonia-1 P	1.0438	mg/l	12/9/2024 14:06:34
ICB1	S	Ammonia-1 P	-0.0073	mg/l	12/9/2024 14:06:35
CCV1	S	Ammonia-NP	1.0617	mg/l	12/9/2024 14:06:38
CCB1	S	Ammonia-1 P	-0.008 ו	mg/l	12/9/2024 14:06:39
RL CHECK	S	Ammonia-1 P	0.0893 1	mg/l	12/9/2024 14:06:41
PB165461BL	S	Ammonia-1 P	-0.0128 r	mg/l	12/9/2024 14:06:44
PB165461BS	S	Ammonia-1 P	1.0378 r	ng/l	12/9/2024 14:17:18
P5139-01	S	Ammonia-1 P	1.7815 r	ng/l	12/9/2024 14:17:19
P5139-01DUP	S	Ammonia-1 P	1.7899 r	ng/l	12/9/2024 14:17:21
P5139-01MS	S	Ammonia-NP	2.8389 r	ng/l	12/9/2024 14:17:23
P5139-01MSD	S	Ammonia-1 P	2.8523 n	ng/l	12/9/2024 14:17:24
P5139-02	S	Ammonia-NP	1.9176 n	ng/l	12/9/2024 14:17:27
P5141-01	S	Ammonia-1 [°] P	0.6952 n	ng/l	12/9/2024 14:17:28
P5145-01	S	Ammonia-NP	-0.0232 n	ng/l	12/9/2024 14:27:24
CCV2	S	Ammonia-1 P	1.0268 m	ng/l	12/9/2024 14:27:25
CCB2	S	Ammonia-1 P	0.0029 m	ng/l	12/9/2024 14:27:28
P5146-01	S	Ammonia-1 P	10.4104 m	ng/l	12/9/2024 14:27:29
P5146-05	S	Ammonia-1 P	3.5257 m	ng/l	12/9/2024 14:27:30
CCV3	S	Ammonia-1 P	1.0221 m	ng/l	12/9/2024 14:27:32
CCB3	S	Ammonia-NP	-0.0032 m	ıg/l	12/9/2024 14:27:34
P5146-01DLX10	S	Ammonia-NP	1.0503 m	ıg/l	12/9/2024 14:54:42
P5146-05DLX2	S	Ammonia-NP	1.7223 m	ıg/l	12/9/2024 14:54:45
CCV4	S	Ammonia-NP	1.0482 m	g/l	12/9/2024 14:54:47
CCB4	S	Ammonia-NP	-0.0009 m	g/l	12/9/2024 14:54:48

Calibration results

Aquakem 7.2AQ1

Page:

CHEMTECH CONSULTING GROUP INC 284 Sheffield Street, Mountainside, NJ 07092

Reviewed by : \underline{RM} Instrument ID : Konelab

12/9/2024 13:35

Test Ammonia-N

Accepted

12/9/2024 13:35

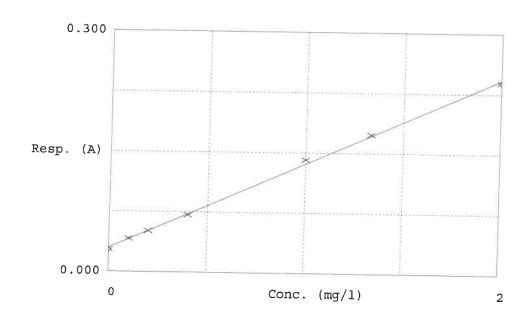
Factor Bias

9.431

0.030

Coeff. of det. 0.998655

Errors



	Calibrator	Response	Calc. con.	Conc.	Re
1 2 3 4 5 6 7	0.00PPM NH3-2PPM NH3-2PPM NH3-2PPM NH3-2PPM NH3-2PPM NH3-2PPM	0.028 0.041 0.051 0.071 0.141 0.173 0.239	-0.0238 0.1062 0.1973 0.3879 1.0493 1.3494	0.0000 0.1000 0.2000 0.4000 1.0000 1.3333 2.0000	6·2 -1·4 -3·0 4·9 3·8

Test results

Aquakem 7.2AQ1

Page:

CHEMTECH CONSULTING GROUP INC 284 Sheffield Street, Mountainside, NJ 07092

Reviewed by : NF Instrument ID : Konelab

12/9/2024 13:01 _____

Test: Total CN

Sample Id	Result	Dil. 1 +	Respons	e Errors
ICV1 ICB1 CCV1 CCB1 PB165498BL PB165498BS LOWPB165498 HIGHPB165498 P5093-01 P5093-02 P5093-02DUP P5093-02MS P5093-02MSD P5141-02 CCV2 CCB2 PB165499BL PB165499BS P5117-02 P5117-02DUP P5117-02MS P5117-02MS PCV3 CCV3 CCV3	102.772 -0.077 256.384 -0.300 -0.420 102.356 10.309 502.004 1.018 -0.359 -0.408 38.453 37.749 2.415 249.536 -0.276 -0.462 99.679 -0.014 0.480 35.929 36.112 272.285 -0.422	0.0	0.071 0.002 0.174 0.002 0.071 0.009 0.338 0.003 0.002 0.002 0.002 0.027 0.004 0.169 0.002 0.002 0.002 0.002 0.002 0.002 0.002	103-1-17 100-1/2)

N 24 Mean 72.698 SD 125.7840 CV% 173.02

Aquakem v. 7.2AQ1

Results from time period:

Mon Dec 09 12:39:46 2024

Mon Dec 09 12:58:46 2024

Sample Id	Sam/C	tr/c/ Test sho	rt r Test type	Result	Result unit	Result date and time	Stat
0.0PPBCN	Α	Total CN	l P	-1.0904		12/9/2024 11:10:55	
5.0PPBCN	Α	Total CN	Р	3.6171	μg/l	12/9/2024 11:10:56	
10PPBCN	Α	Total CN	Р	10.2339	μg/l	12/9/2024 11:10:57	
50PPBCN	Α	Total CN	P	50.8618	μg/l	12/9/2024 11:10:58	
100PPBCN	Α	Total CN	Р	103.4693	µg/l	12/9/2024 11:10:59	
250PPBCN	Α	Total CN	Р	247.3582	µg/l	12/9/2024 11:11:00	
500PPBCN	Α	Total CN	Р	500.55	µg/l	12/9/2024 11:11:01	
ICV1	S	Total CN	Р	102.7721		12/9/2024 12:39:47	
ICB1	S	Total CN	Р	-0.0775	_	12/9/2024 12:39:49	
CCV1	S	Total CN	Р	256.3836	_	12/9/2024 12:39:51	
CCB1	S	Total CN	Р	-0.3002	ug/l	12/9/2024 12:39:52	
PB165498BL	S	Total CN	Р	-0.4199 µ	•	12/9/2024 12:39:54	
PB165498BS	S	Total CN	Р	102.3559 µ	-	12/9/2024 12:47:18	
LOWPB165498	S	Total CN	Р	10.309 բ	_	12/9/2024 12:47:20	
HIGHPB165498	S	Total CN	Р	502.0039 µ	_	12/9/2024 12:47:21	
P5093-01	S	Total CN	Р	1.0184 µ	_	12/9/2024 12:47:23	
P5093-02	S	Total CN	Р	-0.3594 μ	-	12/9/2024 12:47:24	
P5093-02DUP	S	Total CN	Р	-0.408 μ	_	12/9/2024 12:47:25	
P5093-02MS	S	Total CN	Р	38.4534 μ	_	12/9/2024 12:47:26	
P5093-02MSD	S	Total CN	Р	37.7492 μ	•	12/9/2024 12:47:27	
P5141-02	S	Total CN	Р	2.4147 μ		12/9/2024 12:54:54	
CCV2	S	Total CN	Р	249.5362 µ	-	12/9/2024 12:54:55	
CCB2	S	Total CN	Р	-0.2762 µį	_	12/9/2024 12:54:56	
PB165499BL	S	Total CN	Р	-0.4622 µչ		12/9/2024 12:54:57	
PB165499BS	S	Total CN	Р	99.6788 µg		12/9/2024 12:54:58	
P5117-02	S	Total CN	Р	-0.0135 µg		12/9/2024 12:54:59	
P5117-02DUP	S	Total CN	Р	0.4804 με	-	12/9/2024 12:55:00	
P5117-02MS	S	Total CN	Р	35.9291 µg		12/9/2024 12:55:01	
P5117-02MSD	S	Total CN	Р	36.1123 µg		12/9/2024 12:55:02	
CCV3	S	Total CN	P	272.2852 μg		12/9/2024 12:58:45	
CCB3	S		P	-0.4223 μg		.2/9/2024 12:58:46	
				υ <u>Σ</u> Συ με	/·	.Z. J. ZUZ4 1Z. JO.40	

Calibration results

Aquakem 7.2AQ1

Page:

CHEMTECH CONSULTING GROUP INC 284 Sheffield Street, Mountainside, NJ 07092

Reviewed by :

Instrument ID : Konelab

12/9/2024 11:11

Test Total CN

Accepted

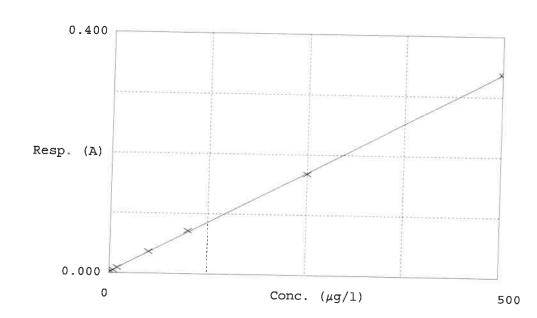
12/9/2024 11:11

Factor Bias

1494 0.002

Coeff. of det. 0.999887

Errors



	Calibrator	Response	Calc. con.	Conc.	Re_ Errors	
1 2 3 4 5 6 7	0.0PPBCN 5.0PPBCN 10PPBCN 50PPBCN 100PPBCN 250PPBCN 500PPBCN	0.001 0.005 0.009 0.036 0.071 0.168 0.337	-1.0904 3.6171 10.2339 50.8618 103.4693 247.3582 500.5500	0.0000 5.0000 10.0000 50.0000 100.0000 250.0000 500.0000	-27.7 2.3 1.7 3.5 -1.1	NF- 12:09:2024



11:10

12

Water Ammonia Preparation Sheet

SOP ID: MSM4500-NH3 B,G-Ammonia-17

SDG No: N/A Start Digest Date: 12/09/2024 Time: 08:50 **Temp:** 150 °C

Matrix: WATER End Digest Date: 12/09/2024 Time: 09:50 Temp: 160 °C

Pippete ID: 11 both 12109/2024 WC 10.10

12/09/2024 Balance ID: N/A

Hood ID: HOOD#2 Digestion tube ID: M5595 Block Thermometer ID: WC CYANIDE

Block ID: WC-DIST-BLOCK-1 Filter paper ID: N/A Prep Technician Signature: RIY Weigh By: N/A pH Meter ID: N/A

Supervisor Signature: **Standared Name MLS USED** STD REF. # FROM LOG LCSW 1.0ML WP110715 MS/MSD SPIKE SOL. 1.0ML WP110714

PBW 50.0ML W3112 **RL CHECK** 0.1ML WP110714 N/A N/A N/A

Chemical Used	ML/SAMPLE USED	Lot Number
BORATE BUFFER	2.5ML	
IAOH 6N	0.5-2.0ML	WP108708
12SO4 0.04N	5.0ML	WP108660
H strip-Ammonia	N/A	WP110335
I-starch paper	N/A	W3133
/A	N/A	W3155
/A	N/A	N/A
/A	N/A	N/A
/A	N/A	N/A
′A	N/A	N/A N/A

Extraction Conformance/Non-Conformance Comments:

ALL GLASSWEAR ARE STEAMED OUT AND THERE WERE NO TRACE OF AMMONIA USING NESLER REAGENT WP108814, Due to bad matrix and client history 1ML was taken as an initial volume for P5146-01 and P5146-05.

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location	
12/09/2024 11.	30 RM CWW	RM cws)	
	Preparation Group	Analysis Group	



Lab Sample ID	Client Sample ID	Initial Vol	Final Vol (ml)	pH	Sulfide	Oxidizing	Nitrate/ Nitrite	Comment	Prep Pos
P5139-01	001-WILLETS-PT-BLVD(DEC)	50	50	<2	N/A	Negative	N/A	AFTER ADDING 6N NAOH PH IS 9.5	N/A
P5139-01DUP	001-WILLETS-PT-BLVD(DEC) DUP	50	50	<2	N/A	Negative	N/A	AFTER ADDING 6N NAOH PH IS 9.5	N/A
P5139-01MS	001-WILLETS-PT-BLVD(DEC) MS	50	50	<2	N/A	Negative	N/A	AFTER ADDING 6N NAOH PH IS 9.5	N/A
P5139-01MSD	001-WILLETS-PT-BLVD(DEC) MSD	50	50	<2	N/A	Negative	N/A	AFTER ADDING 6N NAOH PH IS 9.5	N/A
P5139-02	002-35TH-AVE(DEC)	50	50	<2	N/A	Negative	N/A	AFTER ADDING 6N NAOH PH IS 9.5	N/A
P5141-01	WATER TREATMENT DISCHARGE	50	50	<2	N/A	Negative	N/A	AFTER ADDING 6N NAOH PH IS 9.5	N/A
P5145-01	286085	50	50	<2	N/A	Negative	N/A	AFTER ADDING 6N NAOH PH IS 9.5	N/A
P5146-01	EFFLUENT	1	50	<2	N/A	Negative	N/A	AFTER ADDING 6N NAOH PH IS 9.5	N/A
°5146-05	INFLUENT	1	50	<2	N/A	Negative	N/A	AFTER ADDING 6N NAOH PH IS 9.5	N/A
B165461BL	PBW461	50	50	<2	N/A	Negative		AFTER ADDING 6N NAOH PH IS 9.5	N/A
B165461BS	LCS461	50	50	<2	N/A	Negative		AFTER ADDING 6N NAOH PH IS 9.5	N/A

WORKLIST(Hardcopy Internal Chain)

WorkList Name: ammonia-1206

12/04/2024 SM4500-NH3 12/04/2024 SM4500-NH3 SM4500-NH3 SM4500-NH3 12/05/2024 SM4500-NH3 Date: 12-06-2024 08:20:18 Collect Date Method 12/05/2024 12/05/2024 Raw Sample Location Storage M11 151 L51 M11 **L51** Customer TULL01 PSEG03 TULL01 VERI01 HOLL01 Department: Distillation Conc H2SO4 to pH < 2 Preservative WorkList ID: 186040 Ammonia Ammonia Ammonia Ammonia Ammonia Ammonia Test Matrix Water Water Water Water Water Water WATER TREATMENT DISCHAF 001-WILLETS-PT-BLVD(DEC) 002-35TH-AVE(DEC) Customer Sample EFFLUENT INFLUENT 286085 P5141-01 P5139-02 P5139-01 P5145-01 P5146-01 P5146-05 Sample

12/05/2024 SM4500-NH3

M11

HOLL01

10100/2014 Raw Sample Received by: Date/Time

Raw Sample Relinquished by:

Page 1 of 1

Date/Time 12/09/2024

Raw Sample Relinquished by: Raw Sample Received by:

Water Cyanide Preparation Sheet



SOP ID : M9012B-Total, Amenable and Reactive Cyanide-20

SDG No : N/A **Start Digest Date:** 12/07/2024 Time : 10:00 Temp : 124 °C

Pippete ID: WC

Balance ID: N/A

Hood ID: HOOD#1 Digestion tube ID: M5595 Block Thermometer ID: WC CYANIDE

Block ID: MC-1, MC-2 Filter paper ID: N/A Prep Technician Signature:

Weigh By: N/A pH Meter ID: N/A Supervisor Signature:

Standared Name	MLS USED	STD REF. # FROM LOG	
LCSW	1ML	WP109549	
MS/MSD SPIKE SOL.	0.40ML	WP110899	
PBW	50ML	W3112	
N/A	N/A	N/A	
N/A	N/A	N/A	

Chemical Used	ML/SAMPLE USED	Lot Number
0.25N NaOH	50ML	WP108640
50% v/v H2SO4	5ML	WP110391
51% w/v MgCL2	2ML	WP110390
pH Paper 0-14	N/A	W3121
Nitrate/Nitrite Strip	N/A	W3101
Lead Acetate strip	N/A	W3134
KI-starch paper	N/A	W3155
0.4N Sulfamic Acid	5ML	WP110388
N/A	N/A	N/A
N/A	N/A	N/A

LAB SAMPLE ID	CLIENT SAMPLE ID	Wt(g)/Vol(ml)	Comment
S0	S0	N/A	N/A
S5.0	S5.0	N/A	N/A
S10.0	S10.0	N/A	N/A
S100.0	S100.0	N/A	N/A
S250.0	S250.0	N/A	N/A
S500.0	S500.0	N/A	N/A
ICV	ICV	0.5ML	W3011
ICB	ICB	N/A	N/A
CCV	ccv	N/A	N/A
ССВ	ССВ	N/A	N/A
Midrange	Midrange	N/A	N/A
HIGHSTD	HIGHSTD	5.0ML	WP110899
LOWSTD	LOWSTD	0.1ML	WP110899

Extraction Conformance/Non-Conformance Comments:

N/A

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
12.07.2024, 11:40	20 1WC	NF(W)
	Preparation Group	Analysis Group



Lab Sample ID	Client Sample ID	Initial Vol	Final Vol (ml)	рН	Sulfide	Oxidizing	Nitrate/ Nitrite	Comment	Prep Pos
P5093-01	LL-001	50	50	>12	Negative	Negative	Negative	N/A	N/A
P5093-02	LL-001-FB-12-4-24	50	50	>12	Negative	Negative	Negative	N/A	N/A
P5093-02DUP	LL-001-FB-12-4-24DUP	50	50	>12	Negative	Negative	Negative	N/A	N/A
P5093-02MS	LL-001-FB-12-4-24MS	50	50	>12	Negative	Negative	Negative	N/A	N/A
P5093-02MSD	LL-001-FB-12-4-24MSD	50	50	>12	Negative	Negative	Negative	N/A	N/A
P5141-02	WATER TREATMENT DISCHARGE	50	50	>12	Negative	Negative	Positive	N/A	N/A
PB165498BL	PBW498	50	50	>12	Negative	Negative	Negative	N/A	N/A
PB165498BS	LCS498	50	50	>12	Negative	Negative	Negative	N/A	N/A

WORKLIST(Hardcopy Internal Chain)

CN WATER P5051 WorkList Name:

WorkList ID: 186085

Department: Distillation

Date: 12-07-2024 07:52:44

Raw Sample

Storage Location

Customer

Preservative

Test

Matrix

Customer Sample

Sample

Collect Date Method

12/05/2024 9012B

M11

VERI01

1:1 NaOH to pH >12

Cyanide

P5141-02 WATER TREATMENT DISCHAF Water

12.07.2024, 11:09

Date/Time

Raw Sample Received by:

Raw Sample Relinquished by:

Raw Sample Received by:

Raw Sample Relinquished by:

12.07.2024

Date/Time

WORKLIST(Hardcopy Internal Chain)

WorkList ID: 185977 cn water i5093 WorkList Name:

Customer Department: Distillation Preservative Test Matrix **Customer Sample**

Date: 12-04-2024 14:34:13

Collect Date Method 12/04/2024 9012B 12/04/2024 9012B Raw Sample Storage Location **L**41 L41

> RTHR01 RTHR01

1:1 NaOH to pH >12 1:1 NaOH to pH >12

Cyanide Cyanide

Water Water

LL-001-FB-12-4-24

LL-001

P5093-01

Sample

P5093-02

12:07, 2024, Date/Time

Raw Sample Relinquished by:

Raw Sample Received by:

Page 1 of 1

Date/Time 12.07.2024 Raw Sample Relinquished by: Raw Sample Received by:



Instrument ID: SPECTROPHOTOMETER-1

Review By	Nih	a	Review On	12/6/2024 1:47:04 PM		
Supervise By	lwona		Supervise On	12/6/2024 2:05:50 PM		
SubDirectory	LB	133768	Test	Residual Chlorine		
STD. NAME		STD REF.#				
ICAL Standard		N/A				
ICV Standard		N/A				
CCV Standard		N/A				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		N/A				
Chk Standard		WP110973,WP110968,WP110969,WP110970,WP110967,WP110971,WP110972,W3147				

Sr#	Sampleld	ClientID	QcType	Date	Comment	Operator	Status
1	CAL1	CAL1	CAL	12/05/24 15:45		Niha	ОК
2	CAL2	CAL2	CAL	12/05/24 15:48		Niha	ОК
3	CAL3	CAL3	CAL	12/05/24 15:51		Niha	ОК
4	CAL4	CAL4	CAL	12/05/24 15:54		Niha	ОК
5	CAL5	CAL5	CAL	12/05/24 15:57		Niha	ОК
6	CAL6	CAL6	CAL	12/05/24 16:00		Niha	ОК
7	ICV	ICV	ICV	12/05/24 16:03		Niha	ОК
8	ICB	ICB	ICB	12/05/24 16:06		Niha	ОК
9	CCV1	CCV1	CCV	12/05/24 16:09		Niha	ОК
10	CCB1	CCB1	ССВ	12/05/24 16:12		Niha	ОК
11	LB133768BL	LB133768BL	MB	12/05/24 16:15		Niha	ОК
12	LB133768BS	LB133768BS	LCS	12/05/24 16:18		Niha	ОК
13	P5141-01	WATER TREATMENT	SAM	12/05/24 16:21		Niha	ОК
14	P5141-01DUP	WATER TREATMENT	DUP	12/05/24 16:24		Niha	ОК
15	P5141-01MS	WATER TREATMENT	MS	12/05/24 16:27		Niha	ОК
16	P5141-01MSD	WATER TREATMENT	MSD	12/05/24 16:30		Niha	ОК
17	CCV2	CCV2	CCV	12/05/24 16:33		Niha	ОК
18	CCB2	CCB2	ССВ	12/05/24 16:36		Niha	ОК



Instrument ID: DO METER

Review By	rub	ina	Review On	12/10/2024 2:37:16 PM		
Supervise By	lwo	ona	Supervise On	12/12/2024 9:48:12 AM		
SubDirectory	LB′	133770	Test	BOD5		
STD. NAME		STD REF.#				
ICAL Standard		N/A				
ICV Standard		N/A				
CCV Standard		N/A				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		N/A				
Chk Standard		WP110974,W3149,WP110386,W3103,W3109,W3105,WP110976,WP10975,WP108662				

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	LB133770BL	LB133770BL	MB	12/05/24 17:40		rubina	ОК
2	LB133770BS	LB133770BS	LCS	12/05/24 17:40		rubina	ОК
3	P5074-02	COMP	SAM	12/05/24 17:40	Intermediate dilution	rubina	ОК
4	P5074-02DUP	COMPDUP	DUP	12/05/24 17:40	Intermediate dilution	rubina	ОК
5	P5139-01	001-WILLETS-PT-BL\	SAM	12/05/24 17:40		rubina	ОК
6	P5139-02	002-35TH-AVE(DEC)	SAM	12/05/24 17:40		rubina	ОК
7	P5141-01	WATER TREATMENT	SAM	12/05/24 17:40		rubina	ОК
8	P5143-01	DSN002	SAM	12/05/24 17:40		rubina	ОК
9	P5143-03	DSN001	SAM	12/05/24 17:40		rubina	ОК
10	P5143-05	DSN003	SAM	12/05/24 17:40		rubina	ОК
11	P5145-01	286085	SAM	12/05/24 17:40		rubina	ОК
12	P5146-01	EFFLUENT	SAM	12/05/24 17:40	Intermediate dilution	rubina	ОК
13	P5146-05	INFLUENT	SAM	12/05/24 17:40	Intermediate dilution	rubina	ОК



Instrument ID: WC SC-3

Review By	jign	esh	Review On	12/6/2024 2:34:01 PM
Supervise By	lwo	ona	Supervise On	12/12/2024 11:50:38 AM
SubDirectory	LB′	133785	Test	Oil and Grease
STD. NAME		STD REF.#		
ICAL Standard		N/A		
ICV Standard		N/A		
CCV Standard		N/A		
ICSA Standard		N/A		
CRI Standard		N/A		
LCS Standard		N/A		
Chk Standard		W3153,M6069,EP2570,	WP110826,NA,NA,WP100827,NA,WP	100828

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	LB133785BL	LB133785BL	MB	12/06/24 10:30		jignesh	ОК
2	LB133785BS	LB133785BS	LCS	12/06/24 10:30		jignesh	ОК
3	P5138-01	001-WILLETS-PT-BL\	SAM	12/06/24 10:30		jignesh	ОК
4	P5138-02	002-35TH-AVE(NOV)	SAM	12/06/24 10:30		jignesh	ОК
5	P5139-01	001-WILLETS-PT-BL	SAM	12/06/24 10:30		jignesh	ОК
6	P5139-02	002-35TH-AVE(DEC)	SAM	12/06/24 10:30		jignesh	ОК
7	P5141-02	WATER TREATMENT	SAM	12/06/24 10:30		jignesh	ОК
8	P5141-03	P5141-02MS	MS	12/06/24 10:30		jignesh	ок
9	P5141-04	P5141-02MSD	MSD	12/06/24 10:30		jignesh	ОК
10	P5146-01	EFFLUENT	SAM	12/06/24 10:30		jignesh	ОК
11	P5146-02	P5146-01MS	MS	12/06/24 10:30		jignesh	ОК
12	P5146-03	P5146-01MSD	MSD	12/06/24 10:30		jignesh	ОК



Instrument ID: SPECTROPHOTOMETER-2

Review By	lwo	ona	Review On	12/9/2024 2:49:54 PM	
Supervise By	jign	nesh	Supervise On	12/9/2024 2:55:42 PM	
SubDirectory	LB	133837	Test	COD	
STD. NAME		STD REF.#			
ICAL Standard		N/A			
ICV Standard		N/A			
CCV Standard		N/A			
ICSA Standard		N/A			
CRI Standard		N/A			
LCS Standard		N/A			
Chk Standard		WP110197,WP110200,V	WP110198,WP110196,WP110658,WP1	10199,WP110926,WP110925,W3125	

Sr#	Sampleld	ClientID	QcType	Date	Comment	Operator	Status
1	CAL1	CAL1	CAL	10/14/24 13:10		Iwona	ОК
2	CAL2	CAL2	CAL	10/14/24 13:10		Iwona	ОК
3	CAL3	CAL3	CAL	10/14/24 13:11		Iwona	ОК
4	CAL4	CAL4	CAL	10/14/24 13:11		Iwona	ОК
5	CAL5	CAL5	CAL	10/14/24 13:12		Iwona	ОК
6	ICV	ICV	ICV	10/14/24 13:12		Iwona	ОК
7	ICB	ICB	ICB	10/14/24 13:13		Iwona	ОК
8	CCV1	CCV1	CCV	12/09/24 14:20		Iwona	ОК
9	CCB1	CCB1	ССВ	12/09/24 14:20		Iwona	ОК
10	LB133837BL	LB133837BL	МВ	12/09/24 14:21		Iwona	ОК
11	LB133837BS	LB133837BS	LCS	12/09/24 14:21		Iwona	ОК
12	P5141-01	WATER TREATMENT	SAM	12/09/24 14:22		Iwona	ОК
13	P5143-01	DSN002	SAM	12/09/24 14:22		Iwona	ОК
14	P5143-01DUP	DSN002DUP	DUP	12/09/24 14:23		Iwona	ОК
15	P5143-01MS	DSN002MS	MS	12/09/24 14:23	0.5ml WP110923 + 9.5ml Sample	lwona	ОК
16	P5143-01MSD	DSN002MSD	MSD	12/09/24 14:24	0.5ml WP110923 + 9.5ml Sample	Iwona	OK
17	P5143-03	DSN001	SAM	12/09/24 14:24		lwona	ОК
18	P5143-04	DSN001	SAM	12/09/24 14:25		Iwona	ОК



Instrument ID: SPECTROPHOTOMETER-2

Review By	lwo	ona	Review On	12/9/2024 2:49:54 PM
Supervise By	jign	nesh	Supervise On	12/9/2024 2:55:42 PM
SubDirectory	LB′	133837	Test	COD
STD. NAME		STD REF.#		
ICAL Standard		N/A		
ICV Standard		N/A		
CCV Standard		N/A		
ICSA Standard		N/A		
CRI Standard		N/A		
LCS Standard		N/A		
Chk Standard		WP110197,WP110200,	WP110198,WP110196,WP110658,WP1	10199,WP110926,WP110925,W3125

19	P5143-05	DSN003	SAM	12/09/24 14:25	lwona	ОК
20	CCV2	CCV2	CCV	12/09/24 14:26	lwona	ОК
21	CCB2	CCB2	ССВ	12/09/24 14:26	lwona	ОК
22	P5145-01	286085	SAM	12/09/24 14:26	lwona	ок
23	CCV3	CCV3	CCV	12/09/24 14:27	lwona	ОК
24	ССВ3	CCB3	ССВ	12/09/24 14:27	lwona	ОК

WC SC-3

Instrument ID:



Review By	Nih	a	Review On	12/9/2024 3:58:06 PM
Supervise By	lwo	ona	Supervise On	12/9/2024 4:07:11 PM
SubDirectory	LB	133838	Test	TSS
STD. NAME		STD REF.#		
ICAL Standard		N/A		
ICV Standard		N/A		
CCV Standard		N/A		
ICSA Standard		N/A		
CRI Standard		N/A		
LCS Standard	ndard N/A			
Chk Standard		N/A		

Sr#	Sampleld	ClientID	QcType	Date	Comment	Operator	Status
1	LB133838BL	LB133838BL	MB	12/09/24 11:00		Niha	ОК
2	LB133838BS	LB133838BS	LCS	12/09/24 11:00		Niha	ОК
3	P5068-01	14B-1	SAM	12/09/24 11:00		Niha	ОК
4	P5068-01DUP	14B-1DUP	DUP	12/09/24 11:00		Niha	ОК
5	P5068-02	14B-2	SAM	12/09/24 11:00		Niha	ОК
6	P5068-03	14B-3	SAM	12/09/24 11:00		Niha	ок
7	P5068-04	14B-4	SAM	12/09/24 11:00		Niha	ОК
8	P5074-02	СОМР	SAM	12/09/24 11:00		Niha	ОК
9	P5138-01	001-WILLETS-PT-BL\	SAM	12/09/24 11:00		Niha	ОК
10	P5138-02	002-35TH-AVE(NOV)	SAM	12/09/24 11:00		Niha	ОК
11	P5139-01	001-WILLETS-PT-BL\	SAM	12/09/24 11:00		Niha	ОК
12	P5139-02	002-35TH-AVE(DEC)	SAM	12/09/24 11:00		Niha	ОК
13	P5141-01	WATER TREATMENT	SAM	12/09/24 11:00		Niha	ОК
14	P5142-01	TOWER-1	SAM	12/09/24 11:00		Niha	ОК
15	P5142-03	TOWER-2	SAM	12/09/24 11:00		Niha	ОК
16	P5143-01	DSN002	SAM	12/09/24 11:00		Niha	ОК
17	P5143-03	DSN001	SAM	12/09/24 11:00		Niha	ОК
18	P5143-05	DSN003	SAM	12/09/24 11:00		Niha	ОК



Instrument ID: WC SC-3

Review By	Nih	а	Review On	12/9/2024 3:58:06 PM
Supervise By	lwo	na	Supervise On	12/9/2024 4:07:11 PM
SubDirectory	LB	133838	Test	TSS
STD. NAME		STD REF.#		
ICAL Standard		N/A		
ICV Standard		N/A		
CCV Standard		N/A		
ICSA Standard		N/A		
CRI Standard		N/A		
LCS Standard		N/A		
Chk Standard		N/A		

19	P5145-01	286085	SAM	12/09/24 11:00	Niha	ОК
20	P5146-01	EFFLUENT	SAM	12/09/24 11:00	Niha	ОК
21	P5146-04	AERATION TK 1	SAM	12/09/24 11:00	Niha	ОК
22	P5192-02	EFF-WASTE WATER	SAM	12/09/24 11:00	Niha	ОК



Instrument ID: KONELAB

Review By	rub	ina	Review On	12/10/2024 12:27:41 PM
Supervise By	lwo	ona	Supervise On	12/10/2024 12:31:39 PM
SubDirectory	LB′	133842	Test	Ammonia
STD. NAME		STD REF.#		
ICAL Standard		WP111021		
ICV Standard		WP111023		
CCV Standard		WP111022		
ICSA Standard		N/A		
CRI Standard		N/A		
LCS Standard		WP110715		
Chk Standard		WP110416,WP110019,V	WP108709,WP108840	

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	0.0PPM	0.0PPM	CAL1	12/09/24 13:33		rubina	
2	0.1PPM	0.1PPM	CAL2	12/09/24 13:33		rubina	
3	0.2PPM	0.2PPM	CAL3	12/09/24 13:33		rubina	
4	0.4PPM	0.4PPM	CAL4	12/09/24 13:34		rubina	
5	1.0PPM	1.0PPM	CAL5	12/09/24 13:34		rubina	
6	1.3PPM	1.3PPM	CAL6	12/09/24 13:34		rubina	
7	2.0PPM	2.0PPM	CAL7	12/09/24 13:34		rubina	
8	ICV1	ICV1	ICV	12/09/24 14:06		rubina	
9	ICB1	ICB1	ICB	12/09/24 14:06		rubina	
10	CCV1	CCV1	CCV	12/09/24 14:06		rubina	
11	CCB1	CCB1	ССВ	12/09/24 14:06		rubina	
12	RL	RL	SAM	12/09/24 14:06		rubina	
13	PB165461BL	PB165461BL	MB	12/09/24 14:06		rubina	
14	PB165461BS	PB165461BS	LCS	12/09/24 14:17		rubina	
15	P5139-01	001-WILLETS-PT-BL\	SAM	12/09/24 14:17		rubina	
16	P5139-01DUP	001-WILLETS-PT-BL\	DUP	12/09/24 14:17		rubina	
17	P5139-01MS	001-WILLETS-PT-BL\	MS	12/09/24 14:17		rubina	
18	P5139-01MSD	001-WILLETS-PT-BL\	MSD	12/09/24 14:17		rubina	



Instrument ID: KONELAB

Review By	rub	ina	Review On	12/10/2024 12:27:41 PM
Supervise By	lwo	ona	Supervise On	12/10/2024 12:31:39 PM
SubDirectory	LB	133842	Test	Ammonia
STD. NAME		STD REF.#		
ICAL Standard		WP111021		
ICV Standard		WP111023		
CCV Standard		WP111022		
ICSA Standard		N/A		
CRI Standard		N/A		
LCS Standard		WP110715		
Chk Standard		WP110416,WP110019,V	WP108709,WP108840	

19	P5139-02	002-35TH-AVE(DEC)	SAM	12/09/24 14:17	rubina	
20	P5141-01	WATER TREATMENT	SAM	12/09/24 14:17	rubina	
21	P5145-01	286085	SAM	12/09/24 14:27	rubina	
22	CCV2	CCV2	CCV	12/09/24 14:27	rubina	
23	CCB2	CCB2	ССВ	12/09/24 14:27	rubina	
24	P5146-01	EFFLUENT	SAM	12/09/24 14:27	rubina	
25	P5146-05	INFLUENT	SAM	12/09/24 14:27	rubina	
26	CCV3	CCV3	CCV	12/09/24 14:27	rubina	
27	ссвз	ССВ3	ССВ	12/09/24 14:27	rubina	
28	P5146-01DL	EFFLUENTDL	SAM	12/09/24 14:54	rubina	
29	P5146-05DL	INFLUENTDL	SAM	12/09/24 14:54	rubina	
30	CCV4	CCV4	CCV	12/09/24 14:54	rubina	
31	CCB4	CCB4	ССВ	12/09/24 14:54	rubina	

KONELAB

Instrument ID:



Review By	Nih	na	Review On	12/10/2024 11:11:44 AM				
Supervise By	lwo	ona	Supervise On	12/10/2024 11:21:11 AM				
SubDirectory	LB	133847	Test	Cyanide				
STD. NAME		STD REF.#						
ICAL Standard	Standard WP111012,WP111013,WP111015,WP111016,WP111017,WP111018							
ICV Standard		W3011	W3011					
CCV Standard		WP111013						
ICSA Standard		N/A						
CRI Standard		N/A	N/A					
LCS Standard		WP109549						
Chk Standard		WP111035,WP110103,V	VP111019					

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	0.0PPBCN	0.0PPBCN	CAL1	12/09/24 11:10		Niha	
2	5.0PPBCN	5.0PPBCN	CAL2	12/09/24 11:10		Niha	
3	10PPBCN	10PPBCN	CAL3	12/09/24 11:10		Niha	
4	50PPBCN	50PPBCN	CAL4	12/09/24 11:10		Niha	
5	100PPBCN	100PPBCN	CAL5	12/09/24 11:10		Niha	
6	250PPBCN	250PPBCN	CAL6	12/09/24 11:11		Niha	
7	500PPBCN	500PPBCN	CAL7	12/09/24 11:11		Niha	
8	ICV1	ICV1	ICV	12/09/24 12:39		Niha	
9	ICB1	ICB1	ICB	12/09/24 12:39		Niha	
10	CCV1	CCV1	CCV	12/09/24 12:39		Niha	
11	CCB1	CCB1	ССВ	12/09/24 12:39		Niha	
12	PB165498BL	PB165498BL	MB	12/09/24 12:39		Niha	
13	PB165498BS	PB165498BS	LCS	12/09/24 12:47		Niha	
14	LOWPB165498	LOWPB165498	SAM	12/09/24 12:47		Niha	
15	HIGHPB165498	HIGHPB165498	SAM	12/09/24 12:47		Niha	
16	P5093-01	LL-001	SAM	12/09/24 12:47		Niha	
17	P5093-02	LL-001-FB-12-4-24	SAM	12/09/24 12:47		Niha	
18	P5093-02DUP	LL-001-FB-12-4-24DL	DUP	12/09/24 12:47		Niha	



Instrument ID: KONELAB

Review By	Nih	na	Review On	12/10/2024 11:11:44 AM				
Supervise By	lwo	ona	Supervise On	12/10/2024 11:21:11 AM				
SubDirectory	LB	133847	Test	Cyanide				
STD. NAME		STD REF.#						
ICAL Standard		WP111012,WP111013,V	WP111014,WP111015,WP111016,WP11	1017,WP111018				
ICV Standard		W3011						
CCV Standard		WP111013						
ICSA Standard		N/A						
CRI Standard		N/A	N/A					
LCS Standard		WP109549	WP109549					
Chk Standard		WP111035,WP110103,WP111019						
I		1						

19	P5093-02MS	LL-001-FB-12-4-24MS	MS	12/09/24 12:47	Niha	
20	P5093-02MSD	LL-001-FB-12-4-24MS	MSD	12/09/24 12:47	Niha	
21	P5141-02	WATER TREATMENT	SAM	12/09/24 12:54	Niha	
22	CCV2	CCV2	CCV	12/09/24 12:54	Niha	
23	CCB2	CCB2	ССВ	12/09/24 12:54	Niha	
24	PB165499BL	PB165499BL	MB	12/09/24 12:54	Niha	
25	PB165499BS	PB165499BS	LCS	12/09/24 12:54	Niha	
26	P5117-02	TAPIAL2-IDW-SOIL-1	SAM	12/09/24 12:54	Niha	
27	P5117-02DUP	TAPIAL2-IDW-SOIL-1	DUP	12/09/24 12:55	Niha	
28	P5117-02MS	TAPIAL2-IDW-SOIL-1	MS	12/09/24 12:55	Niha	
29	P5117-02MSD	TAPIAL2-IDW-SOIL-1	MSD	12/09/24 12:55	Niha	
30	CCV3	CCV3	CCV	12/09/24 12:58	Niha	
31	CCB3	CCB3	ССВ	12/09/24 12:58	Niha	



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

8900, Fax: 908 789 8922

Prep Standard - Chemical Standard Summary

Order ID: P5141

Test: Ammonia,BOD5,COD,Cyanide,Oil and Grease,Residual Chlorine,TSS

Prepbatch ID: PB165461,PB165498,

Sequence ID/Qc Batch ID: LB133768,LB133770,LB133785,LB133837,LB133838,LB133842,LB133847,

Standard ID:

EP2570,WP100827,WP100828,WP108640,WP108660,WP108661,WP108662,WP108708,WP108709,WP108840,WP1 09549,WP110019,WP110103,WP110149,WP110150,WP110194,WP110196,WP110197,WP110198,WP110199,WP1102 00,WP110335,WP110386,WP110390,WP110391,WP110416,WP110656,WP110658,WP110714,WP110715,WP110826,WP110899,WP110923,WP110924,WP110925,WP110926,WP110965,WP110966,WP110967,WP110968,WP110969,WP 110970,WP110971,WP110972,WP110973,WP110974,WP110975,WP110976,WP111011,WP111012,WP111013,WP111 014,WP111015,WP111016,WP111017,WP111018,WP111019,WP111021,WP111022,WP111023,WP111035,WP99896,

Chemical ID:

E3551,E3657,M5673,M6069,M6121,W1992,W1993,W2606,W2653,W2654,W2666,W2668,W2700,W2783,W2784,W28 45,W2858,W2882,W2898,W2979,W3001,W3011,W3019,W3059,W3101,W3103,W3105,W3109,W3111,W3112,W3113,W3121,W3125,W3130,W3131,W3132,W3133,W3138,W3139,W3143,W3144,W3147,W3149,W3153,W3154,W3155,



Fax: 908 789 8922

Extractions STANDARD PREPARATION LOG

Recipe				Expiration	Prepared			Supervised By	
<u>ID</u>	NAME	<u>NO.</u>	Prep Date	<u>Date</u>	<u>By</u>	<u>ScaleID</u>	<u>PipetteID</u>	RUPESHKUMAR	
3923	Baked Sodium Sulfate	EP2570	12/02/2024	01/03/2025	Rajesh Parikh	Extraction_SC	None	SHAH	
						ALE_2		12/02/2024	
FROM	FROM 4000.00000gram of E3551 = Final Quantity: 4000.000 gram (EX-SC-2)								

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

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



Wet Chemistry STANDARD PREPARATION LOG

Recipe ID	<u>NAME</u>	NO.	Prep Date	Expiration Date	Prepared By	<u>ScaleID</u>	<u>PipetteID</u>	Supervised By Sohil Jodhani	
3456	Cyanide Intermediate Working Std, 5PPM	WP100828	02/02/2023	02/03/2023	lwona Zarych	None	WETCHEM_F IPETTE_3	02/07/2023	
FROM	FROM 0.25000ml of W2898 + 49.75000ml of WP99896 = Final Quantity: 50.000 ml								

ROM	0.25000ml of W2898 + 4	19.75000ml of WP99896	= Final Quantity: 50.000 ml
-----	------------------------	-----------------------	-----------------------------

Recipe ID	<u>NAME</u>	NO.	Prep Date	Expiration Date	Prepared By	<u>ScaleID</u>	<u>PipetteID</u>	Supervised By Iwona Zarych
11	Sodium hydroxide absorbing solution 0.25 N	<u>WP108640</u>	07/05/2024	01/05/2025	Rubina Mughal	WETCHEM_S CALE_4 (WC		07/08/2024

21.00000L of W3112 + 210.00000gram of E3657 = Final Quantity: 21.000 L **FROM**



Fax: 908 789 8922

Wet Chemistry STANDARD PREPARATION LOG

Recipe				Expiration	Prepared			Supervised By
<u>ID</u>	NAME	<u>NO.</u>	Prep Date	<u>Date</u>	<u>By</u>	<u>ScaleID</u>	<u>PipetteID</u>	Iwona Zarych
1471	NaOH Solution, 6N	WP108660	07/09/2024	01/09/2025	Rubina Mughal	WETCHEM_S		-
						CALE_5 (WC		07/09/2024
FDOM	SC-5)							

Recipe				Expiration	<u>Prepared</u>			Supervised By
<u>ID</u>	<u>NAME</u>	<u>NO.</u>	Prep Date	<u>Date</u>	<u>By</u>	<u>ScaleID</u>	<u>PipetteID</u>	Iwona Zarych
1796	NaOH, 0.1N	WP108661	07/09/2024	01/09/2025	Rubina Mughal	WETCHEM_S	None	
						CALE_5 (WC		07/09/2024

FROM 4.00000gram of W3113 + 996.00000ml of W3112 = Final Quantity: 1000.000 ml



Fax: 908 789 8922

Wet Chemistry STANDARD PREPARATION LOG

Recipe ID	NAME_	NO.	Prep Date	Expiration Date	Prepared By	<u>ScaleID</u>	<u>PipetteID</u>	Supervised By Iwona Zarych
1571	Sodium hydroxide, 1N	WP108662	07/09/2024	01/09/2025	Rubina Mughal	WETCHEM_S CALE 5 (WC		07/11/2024
FROM 4.00000gram of W3113 + 96.00000ml of W3112 = Final Quantity: 100.000 ml								

Recipe ID	NAME	<u>NO.</u>	Prep Date	Expiration Date	Prepared By	<u>ScaleID</u>	<u>PipettelD</u>	Supervised By Mohan Bera
1494	BORATE BUFFER	WP108708	07/11/2024	01/09/2025	Rubina Mughal	WETCHEM_S	None	
						CALE_5 (WC		07/17/2024

FROM 0.90250L of W3112 + 9.50000gram of W2700 + 88.00000ml of WP108661 = Final Quantity: 1.000 L



Alliance TECHNICAL GROUP

Fax: 908 789 8922

Wet Chemistry STANDARD PREPARATION LOG

Recipe ID	NAME_	NO.	Prep Date	Expiration Date	Prepared By	<u>ScaleID</u>	<u>PipetteID</u>	Supervised By Mohan Bera
290	Phenol reagent for Ammonia	WP108709	07/11/2024	01/11/2025	Rubina Mughal	WETCHEM_S	None	
						CALE_5 (WC		07/17/2024
50014	SC-5)							

<u>FROM</u>	3.20000gram of W3113 + 8.30000gram of W2858	+ 88.80000ml of W3112	= Final Quantity: 100.000 ml
-------------	---	-----------------------	------------------------------

Recipe				<u>Expiration</u>	<u>Prepared</u>			Supervised By
<u>ID</u>	<u>NAME</u>	NO.	Prep Date	<u>Date</u>	<u>By</u>	<u>ScaleID</u>	<u>PipetteID</u>	Iwona Zarych
635	EDTA BUFFER FOR AMMONIA	WP108840	07/26/2024	01/26/2025	Rubina Mughal	WETCHEM_S	None	
						CALE_5 (WC		07/26/2024

FROM 5.50000gram of W3113 + 50.00000gram of W3132 + 950.00000ml of W3112 = Final Quantity: 1000.000 ml



Fax: 908 789 8922

Wet Chemistry STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	<u>ScaleID</u>	<u>PipetteID</u>	Supervised By Iwona Zarych
3371	Cyanide LCS Spike Solution, 5PPM	<u>WP109549</u>	09/06/2024	01/05/2025	Niha Farheen Shaik	None	WETCHEM_F IPETTE_3	09/06/2024
	4 00000 5 1400 00000	514/D 4000	:	111 000 000			(VVC)	

FROM 1.00000ml of W3138 + 199.00000ml of WP108640 = Final Quantity: 200.000 ml

Recipe				Expiration	Prepared			Supervised By
<u>ID</u>	<u>NAME</u>	NO.	Prep Date	<u>Date</u>	<u>By</u>	<u>ScaleID</u>	<u>PipetteID</u>	Iwona Zarych
289	Sodium Hypochlorite for Ammonia	WP110019	10/02/2024	01/31/2025	Rubina Mughal	None	None	•
								10/04/2024

FROM 50.00000ml of W3112 + 50.00000ml of W3143 = Final Quantity: 100.000 ml



Alliance TECHNICAL GROUP

Fax: 908 789 8922

Wet Chemistry STANDARD PREPARATION LOG

Recipe				Expiration	Prepared			Supervised By
<u>ID</u>	NAME	NO.	Prep Date	<u>Date</u>	<u>By</u>	<u>ScaleID</u>	<u>PipetteID</u>	Iwona Zarych
539	CN BUFFER	WP110103	10/08/2024	04/08/2025	Rubina Mughal	WETCHEM_S	None	-
						CALE_5 (WC		10/08/2024
FROM	FROM 138.00000gram of W2668 + 862.00000ml of W3112 = Final Quantity: 1000.000 ml							

<u> </u>	 	

Recipe				Expiration	Prepared			Supervised By
<u>ID</u>	<u>NAME</u>	<u>NO.</u>	Prep Date	<u>Date</u>	<u>By</u>	<u>ScaleID</u>	<u>PipetteID</u>	Iwona Zarych
153	Ammonia Stock Std. (1000 ppm)	WP110149	10/11/2024	04/08/2025	Rubina Mughal	WETCHEM_S	None	•
						CALE_5 (WC		10/14/2024

FROM 3.81900gram of W1993 + 996.18100ml of W3112 = Final Quantity: 1000.000 ml



Fax: 908 789 8922

Wet Chemistry STANDARD PREPARATION LOG

Recipe ID	NAME.	NO.	Prep Date	Expiration Date	Prepared By	<u>ScaleID</u>	<u>PipetteID</u>	Supervised By Iwona Zarych
1895	Ammonia Stock Std, 1000PPM-SS	<u>WP110150</u>	10/11/2024	04/08/2025	Rubina Mughal	WETCHEM_S CALE_5 (WC	None	10/14/2024
	0.01000					SC-5)		

FROM 3.81900gram of W1992 + 996.18100ml of W3112 = Final Quantity: 1000.000 ml

Recipe				Expiration	<u>Prepared</u>			Supervised By
<u>ID</u>	<u>NAME</u>	<u>NO.</u>	Prep Date	<u>Date</u>	<u>By</u>	<u>ScaleID</u>	<u>PipetteID</u>	Jignesh Parikh
2456	COD Stock std, 1000ppm	WP110194	10/14/2024	10/21/2024	Iwona Zarych	WETCHEM_S	None	
						CALE_4 (WC		10/17/2024

FROM 0.08500gram of W3111 + 100.00000ml of W3112 = Final Quantity: 100.000 ml



Fax: 908 789 8922

Wet Chemistry STANDARD PREPARATION LOG

Recipe ID	NAME	<u>NO.</u>	Prep Date	Expiration Date	Prepared By	<u>ScaleID</u>	<u>PipetteID</u>	Supervised By Jignesh Parikh
139	COD calibration std. 0 ppm	WP110196	10/14/2024	10/21/2024	Iwona Zarych	None	None	3 3 3
								10/17/2024
			_					

FROM 10.00000ml of W311	2 = Final Quantity: 10.000 ml
--------------------------------	-------------------------------

Recipe				Expiration	<u>Prepared</u>			Supervised By
<u>ID</u>	<u>NAME</u>	<u>NO.</u>	Prep Date	<u>Date</u>	<u>By</u>	<u>ScaleID</u>	<u>PipetteID</u>	Jignesh Parikh
138	COD calibration std. 10 ppm	WP110197	10/14/2024	10/21/2024	Iwona Zarych	None	WETCHEM_F	
							IPETTE_3	10/17/2024

FROM 9.90000ml of W3112 + 0.10000ml of WP110194 = Final Quantity: 10.000 ml



Fax: 908 789 8922

Wet Chemistry STANDARD PREPARATION LOG

Recipe ID	<u>NAME</u>	NO.	Prep Date	Expiration Date	Prepared By	<u>ScaleID</u>	<u>PipetteID</u>	Supervised By Jignesh Parikh
137	COD calibration std. 50 ppm	<u>WP110198</u>	10/14/2024	10/21/2024	lwona Zarych	None	WETCHEM_F IPETTE_3	10/17/2024
EDOM	0 50000ml of W3112 ± 0 50000ml of	\M/D110104	- Final Ouan	tity: 10 000 ml	•		(WC)	

FROM	9.50000mi 0i W3 112 + 0.50000mi 0i WP 110 194 = Final Quantity. 10.000 mi	
	-	

Recipe				Expiration	Prepared			Supervised By
<u>ID</u>	<u>NAME</u>	<u>NO.</u>	Prep Date	<u>Date</u>	<u>By</u>	<u>ScaleID</u>	<u>PipetteID</u>	Jignesh Parikh
136	COD calibration std. 100 ppm	WP110199	10/14/2024	10/21/2024	Iwona Zarych	None	WETCHEM_F	
							IPETTE_3	10/17/2024

FROM 9.00000ml of W3112 + 1.00000ml of WP110194 = Final Quantity: 10.000 ml



Fax: 908 789 8922

Wet Chemistry STANDARD PREPARATION LOG

Recipe ID	<u>NAME</u>	NO.	Prep Date	Expiration Date	Prepared By	<u>ScaleID</u>	<u>PipetteID</u>	Supervised By Jignesh Parikh
135	COD calibration std. 150 ppm	<u>WP110200</u>	10/14/2024	10/21/2024	lwona Zarych	None	WETCHEM_F IPETTE_3	10/17/2024
EDOM	8 50000ml of W3112 ± 1 50000ml of	WD110104	- Final Ouan	tity: 10 000 ml			(WC)	

FROM	8.50000ml of W3112 + 1.50000 ml of WP110194 = Final Quantity: 10.000 ml

Recipe				Expiration	<u>Prepared</u>			Supervised By
<u>ID</u>	NAME	<u>NO.</u>	Prep Date	<u>Date</u>	<u>By</u>	<u>ScaleID</u>	<u>PipetteID</u>	lwona Zarych
1597	0.04 N H2SO4	WP110335	10/22/2024	04/22/2025	Rubina Mughal	None	WETCHEM_F	
							IPETTE_3	10/22/2024

FROM 1.00000ml of M5673 + 999.00000ml of W3112 = Final Quantity: 1000.000 ml



Fax: 908 789 8922

Wet Chemistry STANDARD PREPARATION LOG

Recipe ID	<u>NAME</u>	NO.	Prep Date	Expiration Date	Prepared By	<u>ScaleID</u>	<u>PipetteID</u>	Supervised By Iwona Zarych			
1841	Sulfuric Acid, 1N	<u>WP110386</u>	10/24/2024	04/24/2025	Rubina Mughal	None	WETCHEM_F IPETTE_3	10/24/2024			
50014	(WC)										

<u>FROM</u>	2.80000ml of M5673 + 97.20000ml of W3112 = Final Quantity: 100.000 ml
-------------	---

Recipe ID	<u>NAME</u>	NO.	Prep Date	Expiration Date	Prepared By	<u>ScaleID</u>	<u>PipetteID</u>	Supervised By Iwona Zarych
3214	Magnesium Chloride For Cyanide 2.5M(51%W/V)	<u>WP110390</u>	10/24/2024	04/24/2025	Niha Farheen Shaik	WETCHEM_S CALE_5 (WC	None	10/24/2024

FROM 500.00000ml of W3112 + 510.00000gram of W3001 = Final Quantity: 1000.000 ml



Fax: 908 789 8922

Wet Chemistry STANDARD PREPARATION LOG

Recipe ID	NAME.	NO.	Prep Date	Expiration Date	Prepared By	<u>ScaleID</u>	<u>PipetteID</u>	Supervised By Iwona Zarych
1714	Sulfuric Acid, 50% (v/v)	WP110391	10/24/2024	04/24/2025	Niha Farheen Shaik	None	None	10/24/2024
					O TIGHT			10/24/2024

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	<u>ScaleID</u>	<u>PipetteID</u>	Supervised By Iwona Zarych
740	sodium nitroferricyanide for ammonia	<u>WP110416</u>	10/25/2024	04/25/2025	Rubina Mughal	WETCHEM_S CALE 5 (WC		10/25/2024
						SC-5)		16/26/2621

FROM 0.05000gram of W2666 + 99.95000ml of W3112 = Final Quantity: 100.000 ml



Alliance TECHNICAL GROUP

Fax: 908 789 8922

Wet Chemistry STANDARD PREPARATION LOG

Recipe ID	<u>NAME</u>	<u>NO.</u>	Prep Date	Expiration Date	Prepared By	<u>ScaleID</u>	<u>PipetteID</u>	Supervised By Mohan Bera
2457	COD Stock std-SS, 1000ppm	<u>WP110656</u>	11/11/2024	11/18/2024	Niha Farheen Shaik	WETCHEM_S CALE 5 (WC		44/40/0004
	0.00500 (W0444 : 400.00000			111 100 000		SC-5)		11/12/2024

FROM 0.08500gram of W3111 + 100.00000ml of W3112 = Final Quantity: 100.000 ml

Recipe				Expiration	Prepared			Supervised By
<u>ID</u>	<u>NAME</u>	NO.	Prep Date	<u>Date</u>	<u>By</u>	<u>ScaleID</u>	<u>PipetteID</u>	Mohan Bera
2459	COD ICV-LCS std, 50ppm	WP110658	11/11/2024	11/18/2024	Niha Farheen	None	WETCHEM_F	
					Shaik		IPETTE_3	11/12/2024

FROM 9.50000ml of W3112 + 0.50000ml of WP110656 = Final Quantity: 10.000 ml



Fax: 908 789 8922

Wet Chemistry STANDARD PREPARATION LOG

Recipe ID	<u>NAME</u>	NO.	Prep Date	Expiration Date	Prepared By	<u>ScaleID</u>	<u>PipetteID</u>	Supervised By Iwona Zarych
1322	Ammonia Intermediate Std, 50PPM	<u>WP110714</u>	11/15/2024	12/15/2024	Rubina Mughal	None	WETCHEM_F IPETTE_3	11/18/2024
EDOM	05 00000ml of W3112 ± 5 00000ml o	f \MD110140) = Final Oua	untity: 100 000	ml		(WC)	

FROM 95.000	00ml of W3112 + 5.00000ml of WP110149 = Final Quantity: 100.0	00 mi
--------------------	---	-------

Recipe ID	NAME	<u>NO.</u>	Prep Date	Expiration Date	Prepared By	<u>ScaleID</u>	<u>PipetteID</u>	Supervised By Iwona Zarych
1639	Ammonia Intermediate Std-Second source, 50PPM	<u>WP110715</u>	11/15/2024	12/15/2024	Rubina Mughal	None	WETCHEM_F IPETTE_3 (WC)	,

FROM 95.00000ml of W3112 + 5.00000ml of WP110150 = Final Quantity: 100.000 ml



Fax: 908 789 8922

Wet Chemistry STANDARD PREPARATION LOG

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

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

Recipe ID	<u>NAME</u>	<u>NO.</u>	Prep Date	Expiration Date	Prepared By	<u>ScaleID</u>	<u>PipetteID</u>	Supervised By Jignesh Parikh
3850	Cyanide MS-MSD spiking solution, 5PPM	<u>WP110899</u>	12/02/2024	01/05/2025	lwona Zarych	None	WETCHEM_F IPETTE_3 (WC)	12/03/2024

FROM 1.00000ml of W3154 + 199.00000ml of WP108640 = Final Quantity: 200.000 ml





Wet Chemistry STANDARD PREPARATION LOG

Recipe ID	NAME.	NO.	Prep Date	Expiration Date	Prepared By	<u>ScaleID</u>	<u>PipetteID</u>	Supervised By Jignesh Parikh
2456	COD Stock std, 1000ppm	<u>WP110923</u>	12/03/2024	12/10/2024	Niha Farheen Shaik	WETCHEM_S CALE_5 (WC		12/03/2024
	SC-5)							

FROM 0.08500gram of W3111 + 100.00000ml of W3112 = Final Quantity: 100.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	<u>ScaleID</u>	<u>PipetteID</u>	Supervised By Jignesh Parikh
2457	COD Stock std-SS, 1000ppm	WP110924	12/03/2024	12/10/2024	Niha Farheen	WETCHEM_S	None	Jighesh Pankh
					Shaik	CALE_5 (WC		12/03/2024

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



Fax: 908 789 8922

Wet Chemistry STANDARD PREPARATION LOG

Recipe ID	NAME	<u>NO.</u>	Prep Date	Expiration Date	Prepared By	<u>ScaleID</u>	<u>PipettelD</u>	Supervised By Jignesh Parikh
2458	COD CCV std, 50ppm	WP110925	12/03/2024	12/10/2024	Niha Farheen Shaik	None	WETCHEM_F IPETTE_3	· ·
	0.50000 500000 5	14/5 440000	F: 10	111 40 000 1			(WC)	

Recipe ID	<u>NAME</u>	NO.	Prep Date	Expiration Date	Prepared By	<u>ScaleID</u>	<u>PipetteID</u>	Supervised By Jignesh Parikh
2459	COD ICV-LCS std, 50ppm	WP110926	12/03/2024	12/10/2024	Niha Farheen Shaik	None	WETCHEM_F IPETTE_3	12/03/2024

FROM 9.50000ml of W3112 + 0.50000ml of WP110924 = Final Quantity: 10.000 ml





Fax: 908 789 8922

Wet Chemistry STANDARD PREPARATION LOG

Recipe ID	NAME.	<u>NO.</u>	Prep Date	Expiration Date	Prepared By	<u>ScaleID</u>	<u>PipetteID</u>	Supervised By Iwona Zarych
3443	Residual chlorine std, Intermediate 10PPM	<u>WP110965</u>	12/05/2024	12/06/2024	Niha Farheen Shaik	None	None	12/06/2024

FROM	42.75000ml of W3112 + 7.25000ml of W3130 = Final Quantity: 50.000 ml
-------------	--

Recipe ID	NAME_	NO.	Prep Date	Expiration Date	Prepared By	<u>ScaleID</u>	<u>PipetteID</u>	Supervised By Iwona Zarych
3444	Residual chlorine std, Intermediate-SS 10PPM	<u>WP110966</u>	12/05/2024	12/06/2024	Niha Farheen Shaik	None	None	12/06/2024

FROM 42.50000ml of W3112 + 7.50000ml of W3131 = Final Quantity: 50.000 ml



Alliance TECHNICAL GROUP

Fax: 908 789 8922

Wet Chemistry STANDARD PREPARATION LOG

Recipe ID	<u>NAME</u>	<u>NO.</u>	Prep Date	Expiration Date	<u>Prepared</u> <u>By</u>	<u>ScaleID</u>	<u>PipettelD</u>	Supervised By Iwona Zarych
3710	Chlorine Calibration std, 0.0ppm	<u>WP110967</u>	12/05/2024	12/06/2024	Niha Farheen Shaik	None	None	12/06/2024

FROM 50.00000ml of W3112	= Final Quantity: 50.000 m	ı
---------------------------------	----------------------------	---

Recipe				Expiration	Prepared			Supervised By
<u>ID</u>	<u>NAME</u>	<u>NO.</u>	Prep Date	<u>Date</u>	<u>By</u>	<u>ScaleID</u>	<u>PipetteID</u>	Iwona Zarych
3707	Chlorine Calibration std, 0.1ppm	WP110968	12/05/2024	12/06/2024	Niha Farheen	None	WETCHEM_F	1
					Shaik		IPETTE_3	12/06/2024

FROM 49.50000ml of W3112 + 0.50000ml of WP110965 = Final Quantity: 50.000 ml



Aliance TECHNICAL GROUP

Fax: 908 789 8922

Wet Chemistry STANDARD PREPARATION LOG

Recipe ID	<u>NAME</u>	NO.	Prep Date	Expiration Date	Prepared By	<u>ScaleID</u>	<u>PipetteID</u>	Supervised By Iwona Zarych	
3708	Chlorine Calibration std, 0.2ppm	<u>WP110969</u>	12/05/2024	12/06/2024	Niha Farheen Shaik	None	WETCHEM_F IPETTE_3	12/06/2024	
EDOM	(WC)								

FROM	46.00000ml of W3112 + 4.00000ml of WP110965 = Final Quantity: 50.000 ml
------	---

Recipe				Expiration	<u>Prepared</u>			Supervised By
<u>ID</u>	<u>NAME</u>	<u>NO.</u>	Prep Date	<u>Date</u>	<u>By</u>	<u>ScaleID</u>	<u>PipetteID</u>	Iwona Zarych
3709	Chlorine Calibration std, 0.8ppm	WP110970	12/05/2024	12/06/2024	Niha Farheen	None	WETCHEM_F	,
					Shaik		IPETTE_3	12/06/2024

FROM 46.00000ml of W3112 + 4.00000ml of WP110965 = Final Quantity: 50.000 ml



Fax: 908 789 8922

Wet Chemistry STANDARD PREPARATION LOG

Recipe ID	NAME	<u>NO.</u>	Prep Date	Expiration Date	Prepared By	<u>ScaleID</u>	<u>PipetteID</u>	Supervised By Iwona Zarych
3711	Chlorine Calibration std, 1.6ppm	<u>WP110971</u>	12/05/2024	12/07/2024	Niha Farheen Shaik	None	None	12/06/2024

Recipe ID	NAME_	NO.	Prep Date	Expiration Date	Prepared By	<u>ScaleID</u>	<u>PipetteID</u>	Supervised By Iwona Zarych
3799	Residual Chlorine Calibration and CCV std, 0.4PPM	<u>WP110972</u>	12/05/2024	12/06/2024	Niha Farheen Shaik	None	None	12/06/2024

FROM 96.00000ml of W3112 + 4.00000ml of WP110965 = Final Quantity: 100.000 ml



Fax: 908 789 8922

Wet Chemistry STANDARD PREPARATION LOG

Recipe ID	NAME	<u>NO.</u>	Prep Date	Expiration Date	<u>Prepared</u> <u>By</u>	<u>ScaleID</u>	<u>PipetteID</u>	Supervised By Iwona Zarych
3452	Residual chlorine ICV-LCS, 0.4PPM	<u>WP110973</u>	12/05/2024	12/06/2024	Niha Farheen Shaik	None	None	12/06/2024

Recipe				Expiration	Prepared			Supervised By
<u>ID</u>	<u>NAME</u>	NO.	Prep Date	<u>Date</u>	<u>By</u>	<u>ScaleID</u>	<u>PipetteID</u>	Iwona Zarych
127	BOD Dilution fluid	WP110974	12/05/2024	12/06/2024	Rubina Mughal	None	None	Ţ
								12/06/2024

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



Fax: 908 789 8922

Wet Chemistry STANDARD PREPARATION LOG

Recipe ID	NAME_	NO.	Prep Date	Expiration Date	Prepared By	<u>ScaleID</u>	<u>PipetteID</u>	Supervised By Iwona Zarych
129	Glutamic acid-glucose mix for BOD	<u>WP110975</u>	12/05/2024	12/06/2024	Rubina Mughal	CALE_7 (WC		12/06/2024
FROM	0.15000gram of W2653 + 0.15000gra	am of W265	4 + 1000.000	00ml of W3112	: = Final Quanti	SC-6) ty: 1000.000 ml		

<u>ROM</u>	0.15000gram of W2653	+ 0.15000gram of W2654 +	1000.00000ml of W3112	= Final Quantity: 1000.000 ml
------------	----------------------	--------------------------	-----------------------	-------------------------------

Recipe				Expiration	Prepared			Supervised By
<u>ID</u>	<u>NAME</u>	<u>NO.</u>	Prep Date	<u>Date</u>	<u>By</u>	<u>ScaleID</u>	<u>PipetteID</u>	Iwona Zarych
128	polyseed seed control	WP110976	12/05/2024	12/06/2024	Rubina Mughal	None	None	,
								12/06/2024

 $1.00000PILLOW ext{ of } W3059 + 300.00000ml ext{ of } WP110974 ext{ = Final Quantity: } 300.000 ext{ ml}$ **FROM**



Fax: 908 789 8922

Wet Chemistry STANDARD PREPARATION LOG

Recipe ID	<u>NAME</u>	NO.	Prep Date	Expiration Date	Prepared By	<u>ScaleID</u>	<u>PipetteID</u>	Supervised By Iwona Zarych
3456	Cyanide Intermediate Working Std, 5PPM	<u>WP111011</u>	12/09/2024	12/10/2024	Niha Farheen Shaik	None	WETCHEM_F IPETTE_3	12/10/2024
	0.25000ml of W2454 + 40.75000ml o	£ \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	0 - Final Ou		l		(WC)	

FROM	0.25000ml of W3154 + 49.75000ml of WP108640	= Final Quantity: 50.000 ml
------	---	-----------------------------

Recipe				Expiration	<u>Prepared</u>			Supervised By
<u>ID</u>	<u>NAME</u>	<u>NO.</u>	Prep Date	<u>Date</u>	<u>By</u>	<u>ScaleID</u>	<u>PipetteID</u>	Iwona Zarych
4	Calibation standard 500 ppb	WP111012	12/09/2024	12/10/2024	Niha Farheen	None	Glass	
					Shaik		Pipette-A	12/10/2024

FROM 45.00000ml of WP108640 + 5.00000ml of WP111011 = Final Quantity: 50.000 ml



Fax: 908 789 8922

Wet Chemistry STANDARD PREPARATION LOG

Recipe ID	<u>NAME</u>	NO.	Prep Date	Expiration Date	Prepared By	<u>ScaleID</u>	<u>PipetteID</u>	Supervised By Iwona Zarych
3761	Calibration-CCV CN Standard 250 ppb	<u>WP111013</u>	12/09/2024	12/10/2024	Niha Farheen Shaik	None	Glass Pipette-A	12/10/2024

FROM	2.50000ml of WP111011	+ 47.50000ml of WP108640	= Final Quantity: 50.000 ml
-------------	-----------------------	--------------------------	-----------------------------

Recipe				Expiration	<u>Prepared</u>			Supervised By
<u>ID</u>	<u>NAME</u>	<u>NO.</u>	Prep Date	<u>Date</u>	<u>By</u>	<u>ScaleID</u>	<u>PipetteID</u>	Iwona Zarych
6	Calibration Standard 100 ppb	<u>WP111014</u>	12/09/2024	12/10/2024	Niha Farheen	None	Glass	
					Shaik		Pipette-A	12/10/2024

FROM 1.00000ml of WP111011 + 49.00000ml of WP108640 = Final Quantity: 50.000 ml



Fax: 908 789 8922

Wet Chemistry STANDARD PREPARATION LOG

Recipe ID	NAME.	NO.	Prep Date	Expiration Date	Prepared By	<u>ScaleID</u>	<u>PipetteID</u>	Supervised By Iwona Zarych		
7	Calibration Standard 50 ppb	<u>WP111015</u>	12/09/2024	12/10/2024	Niha Farheen Shaik	None	WETCHEM_F IPETTE_3	12/10/2024		
	(WC)									

Recipe				Expiration	Prepared			Supervised By
<u>ID</u>	NAME	NO.	Prep Date	<u>Date</u>	<u>By</u>	<u>ScaleID</u>	<u>PipetteID</u>	Iwona Zarych
8	Calibration Standard 10 ppb	WP111016	12/09/2024	12/10/2024	Niha Farheen	None	WETCHEM_F	1
					Shaik		IPETTE_3	12/10/2024

FROM 1.00000ml of WP111012 + 49.00000ml of WP108640 = Final Quantity: 50.000 ml



Fax: 908 789 8922

Wet Chemistry STANDARD PREPARATION LOG

Recipe ID	<u>NAME</u>	<u>NO.</u>	Prep Date	Expiration Date	Prepared By	<u>ScaleID</u>	<u>PipetteID</u>	Supervised By Iwona Zarych
9	Calibration Standard 5 ppb	<u>WP111017</u>	12/09/2024	12/10/2024	Niha Farheen Shaik	None	WETCHEM_F IPETTE_3	,
FDOM	0 50000ml of WP111012 ± 40 50000	mL of WD10	9640 - Final	Quantity: 50.00	00 ml		(WC)	

FROM	0.50000fff 0f WP 111012 + 49.50000fff 0f WP 106640	

Recipe				Expiration	<u>Prepared</u>			Supervised By
<u>ID</u>	<u>NAME</u>	<u>NO.</u>	Prep Date	<u>Date</u>	<u>By</u>	<u>ScaleID</u>	<u>PipetteID</u>	Iwona Zarych
167	0 ppb CN calibration std	WP111018	12/09/2024	12/10/2024	Niha Farheen	None	None	·
					Shaik			12/10/2024

FROM 50.00000ml of WP108640 = Final Quantity: 50.000 ml



Alliance TECHNICAL GROUP

Fax: 908 789 8922

Wet Chemistry STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	<u>ScaleID</u>	<u>PipetteID</u>	Supervised By Iwona Zarych
1582	Chloramine T solution, 0.014M	<u>WP111019</u>	12/09/2024	12/10/2024	Niha Farheen Shaik	WETCHEM_S CALE_5 (WC		12/10/2024
	0.00000		F: 10			SC-5)		

FROM 0.08000gram of W3139 + 20.00000ml of W3112 = Final Quantity: 20.000 ml

Recipe				Expiration	<u>Prepared</u>			Supervised By
<u>ID</u>	<u>NAME</u>	<u>NO.</u>	Prep Date	<u>Date</u>	<u>By</u>	<u>ScaleID</u>	<u>PipetteID</u>	Iwona Zarych
275	Ammonia Calibration Std. (2 ppm)	WP111021	12/09/2024	12/10/2024	Rubina Mughal	None	WETCHEM_F	'
							IPETTE_3	12/10/2024

FROM 48.00000ml of W3112 + 2.00000ml of WP110714 = Final Quantity: 50.000 ml



Fax: 908 789 8922

Wet Chemistry STANDARD PREPARATION LOG

Recipe				Expiration	Prepared			Supervised By		
<u>ID</u>	NAME	NO.	Prep Date	<u>Date</u>	<u>By</u>	<u>ScaleID</u>	<u>PipetteID</u>	Iwona Zarych		
285	Ammonia CCV Std. (1 ppm)	WP111022	12/09/2024	12/10/2024	Rubina Mughal	None	WETCHEM_F	•		
							IPETTE_3	12/10/2024		
FROM	(WC)									

<u>FROM</u>	49.00000mi of W3112 +	1.00000mi of WP 1107 14	= Final Quantity: 50.000 mi

Recipe				Expiration	<u>Prepared</u>			Supervised By
<u>ID</u>	NAME	<u>NO.</u>	Prep Date	<u>Date</u>	<u>By</u>	<u>ScaleID</u>	<u>PipetteID</u>	Iwona Zarych
286	Ammonia ICV Std. (1 ppm)	WP111023	12/09/2024	12/10/2024	Rubina Mughal	None	WETCHEM_F	•
							IPETTE_3	12/10/2024

FROM 49.00000ml of W3112 + 1.00000ml of WP110715 = Final Quantity: 50.000 ml



Alliance TECHNICAL GROUP

Fax: 908 789 8922

Wet Chemistry STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	<u>ScaleID</u>	<u>PipetteID</u>	Supervised By Iwona Zarych
607	PYRIDINE-BARBITURIC ACID	<u>WP111035</u>	12/09/2024	04/30/2025	Niha Farheen Shaik	WETCHEM_S CALE_5 (WC	Glass Pipette-A	12/10/2024
	445,00000 504/0440 45,00000	514/00/	20 - 45 2022		75.00000 1.6	SC-5)	0 " 050	000

FROM 145.00000ml of W3112 + 15.00000gram of W2882 + 15.00000ml of M6121 + 75.00000ml of W3019 = Final Quantity: 250.000 ml

Recipe ID	<u>NAME</u>	NO.	Prep Date	Expiration Date	Prepared By	<u>ScaleID</u>	<u>PipetteID</u>	Supervised By Iwona Zarych
11	Sodium hydroxide absorbing solution 0.25 N	<u>WP99896</u>	11/15/2022	05/15/2023	•	WETCHEM_S CALE_4 (WC		11/15/2022

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



Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	PC19631-100 / SODIUM SULFATE, ANHYDROUS, PEST GRADE, 1	313201	01/03/2025	01/03/2024 / Rajesh	07/20/2023 / Rajesh	E3551
Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	PC19510-5 / Sodium Hydroxide Pellets 2.5 Kg, Pk of 4	23B1556310	12/31/2025	12/04/2023 / Rajesh	12/01/2023 / Rajesh	E3657
Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9673-33 / Sulfuric Acid, Instra-Analyzed (cs/6c2.5L)	23D2462010	03/20/2028	09/21/2023 / mohan	09/05/2023 / mohan	M5673
Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	140440 / TEST PAPERS,PH,0-2.5,.2SENSI, 100PK	80A0441	02/29/2028	09/03/2024 / jignesh	08/19/2024 / Jaswal	M6069
Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9530-33 / Hydrochloric Acid, Instra-Analyzed (cs/6x2.5L)	0000275677	05/13/2025	11/13/2024 / Eman	10/13/2024 / Eman	M6121
Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific	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 #
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.	AC156212500 / GLUTAMIC ACID BIOCHEM REG, 250G	A0405990	01/24/2030	01/24/2020 / apatel	01/24/2020 / apatel	W2653
Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	D16-500 / DEXTROSE ANHYDROUS ACS REAGENT, 500G(New)	186122A	01/24/2030	01/24/2020 / apatel	01/24/2020 / apatel	W2654
Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	87683 / Sodium Nitroferricyanide 250g	W12F013	02/10/2030	02/10/2020 / apatel	02/10/2020 / apatel	W2666
		W12F013	02/10/2030 Expiration Date			W2666 Chemtech Lot #



Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	J3568-1 / Sodium Borate, 500 gms	2019111354	04/23/2025	04/23/2020 / apatel	03/11/2020 / apatel	W2700
Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9254-03 / Acetone, Ultra Resi (cs/4x4L)	0000263246	06/17/2023	12/23/2020 / ketankumar	12/23/2020 / ketankumar	W2783
Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	P243-500 / Potassium Hydrogen Phthalate, 500 gms	201089	06/30/2025	12/23/2020 / apatel	12/16/2020 / apatel	W2784
Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	PC19510-7 / Sodium Hydroxide Pellets 12 Kg	21C2456604	01/31/2024	03/30/2022 / JIGNESH	06/24/2021 / apatel	W2845
		Lot #	Expiration	Date Opened /	Received Date /	Chemtech Lot #
Supplier	ItemCode / ItemName	LOI #	Date	Opened By	Received By	LOI #
Supplier PCI Scientific Supply, Inc.	P1060-10 / PHENOL, ACS, 500G	M13H048	Date 01/07/2026	07/07/2021 / apatel	07/07/2021 / apatel	W2858
PCI Scientific	P1060-10 / PHENOL,			07/07/2021 /	07/07/2021 /	



Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Supelco	90157 / Cyanide Standard, 1000ppm from Supelco	HC03107133	06/30/2023	01/24/2022 / apatel	01/24/2022 / apatel	W2898
Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	31390 / 1,5-Diphenylcarbazide	MKCR6636	12/09/2027	12/09/2022 / Iwona	12/09/2022 / Iwona	W2979
Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	01237-10KG / Megnasium Chloride Hexahydrate ACS 10KG	002251-03319	06/06/2027	01/23/2023 / Iwona	06/06/2022 / Iwona	W3001
Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
EPA	/ ICV-CN	ICV6-400	12/31/2024	01/03/2024 / lwona	02/20/2020 / Iwona	W3011
Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
SIGMA ALDRICH	270970-1L / Pyridine 1L	SHBQ2113	04/03/2028	04/03/2023 / Iwona	04/03/2023 / Iwona	W3019
Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #



Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	470112-662 / TEST STRIPES, NITRATE/NITRITE, PK50	402403	04/30/2026	05/02/2024 / Iwona	04/10/2024 / Iwona	W3101
Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	4620-32 / MANGANOUS SULFATE SOLUTION-364	2403J02	03/31/2026	04/22/2024 / Iwona	04/22/2024 / Iwona	W3103
Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	AL69870-8 / SODIUM THIOSULFATE,0.025N,4LIT RE	4403S13	09/30/2025	04/22/2024 / Iwona	04/22/2024 / Iwona	W3105
Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	AL04100-4 / Alkaline lodide Azide, 1 L	1405D67	04/30/2026	05/23/2024 / lwona	05/23/2024 / Iwona	W3109
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	24A1956910	01/18/2025	06/26/2024 / Iwona	06/26/2024 / Iwona	W3111
	1		Expiration	Date Opened /	Received Date /	Chemtech
Supplier	ItemCode / ItemName	Lot #	Date	Opened By	Received By	Lot #



Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	PC19510-7 / Sodium Hydroxide Pellets 12 Kg	23B1556310	12/31/2025	07/08/2024 / Iwona	07/08/2024 / Iwona	W3113
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	HC446507	07/25/2029	07/25/2024 / Iwona	07/25/2024 / Iwona	W3121
Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Environmental Express LTD	B1010 / COD Digestion Vials Low Level 0-150Mg/L	13798	09/30/2027	12/06/2024 / Iwona	07/25/2024 / Iwona	W3125
Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
HACH	14268-10 / Chlorine Std, Pk of 16	A4144	01/31/2026	07/25/2024 / lwona	07/25/2024 / Iwona	W3130
			Expiration	Date Opened /	Received Date /	Chemtech
Supplier	ItemCode / ItemName	Lot #	Date	Opened By	Received By	Lot #
Supplier HACH	14268-10 / Chlorine Std, Pk of 16	A4166	Date 02/28/2026	Opened By 07/25/2024 / Iwona	07/25/2024 / Iwona	W3131
	14268-10 / Chlorine Std,			07/25/2024 /	07/25/2024 /	



Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	140476 / Test Paper,PH Short Range 9.0/10.0	L23	08/22/2029	08/22/2024 / Iwona	08/22/2024 / Iwona	W3133
Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	LC135457 / Cyanide Standard, 1000 PPM, Second Source	44080060	01/30/2025	09/06/2024 / Iwona	08/28/2024 / Iwona	W3138
Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	JTE494-6 / CHLORAMINE-T BAKER 250GM	10239484	09/09/2029	09/09/2024 / Iwona	09/09/2024 / Iwona	W3139
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	2407F34	01/31/2025	09/30/2024 / lwona	09/30/2024 / Iwona	W3143
Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
HACH	1486266 / BOD Nutrient Buffer Pillows, 6 mL concentrate to make 6 L, 50/pk	A4169	06/30/2029	11/20/2024 / rubina	10/01/2024 / Iwona	W3144
			Expiration	Date Opened /	Received Date /	Chemtech
Supplier	ItemCode / ItemName	Lot #	Date	Opened By	Received By	Lot #



Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	AL70850-8 / Starch Solution, 4L	4408P62	08/31/2026	10/16/2024 / Iwona	10/16/2024 / Iwona	W3149

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9262-03 / Hexane, Ultra-Resi (cs/4x4L)	24G1962003	08/22/2025	11/25/2024 / jignesh	11/21/2024 / jignesh	W3153

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	RC2543-4 / CYANIDE STD 1000PPM 4OZ	1411J58	05/31/2025	12/02/2024 / Iwona	12/02/2024 / Iwona	W3154

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	14-860	12/02/2029	12/02/2024 / Iwona	12/02/2024 / Iwona	W3155

Date of Release: 12/18/2013



size codes

Grade: Meets ACS Specifications CAS #: 12125-02-9

Country of Origin: India FW: 53.49

Lot No.: WL13B ClH_4N

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	%

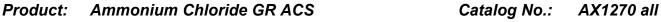
Joe Schoellkopff

Quality Control Manager

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

F 7.5.3-3 Q # 016969 MA5666 WL13BCOA WL13

Date of Release: 5/12/2014



size codes

Grade: Meets ACS Specifications CAS #: 12125-02-9

Country of Origin: India FW: 53.49

Lot No.: XE09B ClH_4N

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.

F 7.5.3-3 Q # 017800 MA5666 XE09BCOA HMXE09



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

1000 mg/I CN Certipur®

HC03107133 **Batch**

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

Determination method: Argentometric titration.

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

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

Ayfer Yildirim

Responsible laboratory manager quality control

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

Acetone
ULTRA RESI-ANALYZED
For Organic Residue Analysis



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

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

Revision No: 1

Certificate of Analysis

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

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

Country of Origin: US

Packaging Site: Phillipsburg Mfg Ctr & DC





W2858 Received by AP on 07/07/2021

Product No.: 33213

Product: Phenol, ACS, 99+%, stab.

Lot No.: M13H048

Test	Limits	Results
Assay	99.0 % min	99.8 %
Freezing point	40.5°C min	40.5 °C
Clarity of solution	To pass test	Passes
Residue after evaporation	0.05 % max	< 0.05 %
Water	0.5 % max	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.



W2666 Recived on 02/10/2020 by AP

Product No.: 87683

Product: Sodium pentacyanonitrosylferrate(III) dihydrate, ACS,

99.0-102.0%

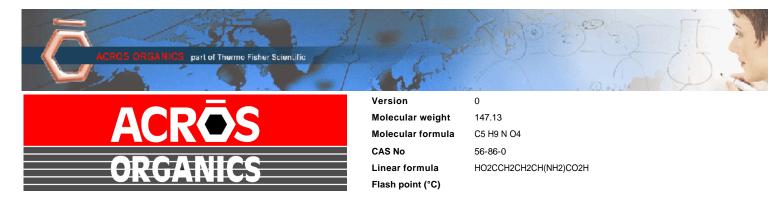
Lot No.: W12F013

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.



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

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

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

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





L. Van den Broek, QA Manager

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

Issued: 24 January 2020

Chem-Impex International, Inc. 06/06/27

Tel: (630) 766-2112

E-mail: sales@chemimpex.com Shipping and Correspondence:

935 Dillon Drive

Wood Dale, IL 60191

Fax: (630) 766-2218

Web site: www.chemimpex.com

Manufacturing site:

825 Dillon Drive

Wood Dale, IL 60191

Certificate of Analysis

Catalogue Number

01237

Product

Magnesium chloride hexahydrate

Lot Number

002251-03319

Magnesium chloride•6H2O

CAS Number

7791-18-6

Molecular Formula

MgCl₂•6H₂O

Molecular Weight

203.3

Appearance

Colorless crystals, very deliquescent

Heavy Metals

< 5 ppm

Anion

Nitrate: < 0.001% Phosphate : < 5 ppm Sulfate: < 0.002%

Cation

Ammonium: < 0.002% Barium : < 0.005% Calcium: 0.0006% Iron: < 5 ppm Manganese: 1.8 ppm Potassium: 0.0006% Sodium: 0.0008% Strontium: 0.0015%

Insoluble material

0.0025%

Assay by titration

100.29%

Grade

ACS reagent

Storage

Store at RT

Country of Origin

India

Catalog Number: 01237

Lot Number: 002251-03319

Remarks

See material safety data sheet for additional information

For laboratory use only

The foregoing is a copy of the Certificate of Analysis as provided by our supplier

Bala Kumar

Quality Control Manager

W3019 lec 4/3/23

3050 Spruce Street, Saint Louis, MO 63103, USA

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

Product Name:

Certificate of Analysis

Pyridine - anhydrous, 99.8%

Product Number:

270970

Batch Number:

SHBQ2113

Brand:

SIAL

CAS Number:

110-86-1

MDL Number:

MFCD00011732

Formula:

C5H5N

Formula Weight:

79.10 g/mol

Quality Release Date:

15 DEC 2022

L	
	N

Test	Specification	Result	
Appearance (Color)	Colorless	Colorless	
Appearance (Form)	Liquid	Liquid	
Infrared Spectrum	Conforms to Structure	Conforms	
Purity (GC)	> 99.75 %	99.99 %	
Water (by Karl Fischer)	_ < 0.003 %	0.002 %	
Residue on Evaporation	_ < 0.0005 %	< 0.0001 %	

Larry Coers, Director Quality Control

Sheboygan Falls, WI US

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







CERTIFICATE OF ANALYSIS

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

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

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

FORMULATION:

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

VIABLE COUNT, FINAL TEST RESULT:

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

GLUCOSE/GLUTAMIC-ACID RESULTS:

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

See www.polyseed.com for details.

SEED CONTROL FACTOR:

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

SALMONELLA TEST RESULT:

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

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

Signature:

Date: 05/15/2023

Quality Control Department

POLYSEED.Ref.1.19

Revised Jan 23







Date of Release: 11/14/2019

Name: Sodium Borate, Decahydrate

ACS

Item No: **SX0355 All Sizes**Lot / Batch No: **2019111354**Country of Origin: **India**

W2700 Recived by AP on 3/11/2020

Item	Specifications	Analysis
Assay (Na2B4O7 • 10H2O)	99.5 - 105.0%	101.7%
Calcium (Ca)	0.005% max.	0.003%
Chloride (CI)	0.001% max.	<0.001%
Color	White	Passes Test
Form	Crystals	Passes Test
Heavy Metals (as Pb)	0.001% max.	<0.001%
Insoluble Matter	0.005% max.	0.002%
Iron (Fe)	5 ppm max.	<5 ppm
pH of a 0.01 M solution at 25C	9.15 - 9.20	9.17
Phosphate (PO4)	0.001% max.	<0.001%
Sulfate (SO4)	0.005% max.	<0.005%

Joe Schoellkopff

Quality Control Manager

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

EMD Millipore is a division of Merck KGaA, Darmstadt, Germany

EMD Millipore Corporation

400 Summit Drive Burlington, MA 01803 U.S.A.

Form number: 00005624CA, Rev. 2.0

Certificate of Analysis Page 1 of 1



Certificate of Analysis

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

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

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

Catalog Number	D16	Quality Test / Release Date	03/19/2019		
Lot Number	186122A				
Description	DEXTROSE, ANHYDROUS, A.C.S.				
Country of Origin	United States	Suggested Retest Date	Mar/2022		
Chemical Origin	Organic - Plant				
BSE/TSE Comment	No animal products are used as starting raw material ingredients, or used in processing, including lubricants, processing aids, or any other material that might migrate to the finished product.				
Chemical Comment					

N/A					
Result Name	Units	Specifications	Test Value		
APPEARANCE		REPORT	White, granular powder		
TITRATABLE ACID	MEQ/G	<= 0.002	<0.002		
STARCH		= PASS TEST	pass test		
SPECIFIC ROTATION @ 25 C	DEGREES (+ OR -)	Inclusive Between +52.5 - +53.0	53.0		
SULFATE & SULFITE	%	<= 0.005	<0.005		
IRON (Fe)	ppm	<= 5	<5		
CHLORIDE	%	<= 0.01	<0.01		
IGNITION RESIDUE	%	<= 0.02	<0.02		
IDENTIFICATION	PASS/FAIL	= PASS TEST	pass test		
HEAVY METALS (as Pb)	ppm	<= 5	<5		
LOSS ON DRYING @ 105 C	%	<= 0.2	<0.2		
INSOLUBLE MATTER	%	<= 0.005	0.002		

Derisa Bailey- Wyche

Quality Assurance Specialist - Certificate of Analysis Fair Lawn



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

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

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

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

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

Julian Burton

Julian Burton - Quality Control Manager - Fair Lawn

^{*}Based on suggested storage condition.



MIRADOR 201, COL. MIRADOR MONTERREY, N.L. MEXICO CP 64070 TEL +62 81 13 52 57 57 www.pqm.com,mx

CERTIFICATE OF ANALYSIS

PRODUCT:

SODIUM SULFATE CRYSTALS ANHYDROUS

QUALITY:

ACS (CODE RMB3375)

FORMULA:

Na₂SO₄

SPECIFICATION NUMBER: 6399

RELEASE DATE:

ABR/21/2023

LOT NUMBER:

313201

TEST	SPECIFICATIONS	LOT VALUES
Assay (Na ₂ SO ₄)	Min. 99.0%	99.7 %
pH of a 5% solution at 25°C	5.2 - 9.2	6.1
Insoluble matter	Max. 0.01%	0.005 %
Loss on ignition	Max. 0.5%	0.1 %
Chloride (Cl)	Max. 0.001%	<0.001 %
Nitrogen compounds (as N)	Wax. 5 ppm	<5 ppm
Phosphate (PO ₄)	Max. 0.001%	<0.001 %
Heavy metals (as Pb)	Max. 5 ppm	<5 ppm
Iron (Fe)	Max. 0.001%	<0.001 %
Calcium (Ca)	Max. 0.01%	0.002 %
Magnesium (Mg)	Max. 0.005%	0.001 %
Potassium (K)	Max. 0.008%	0.003 %
Extraction-concentration suitability	Passes test	Passes test
Appearance	Passes test	Passes test
Identification	Passes test	Passes test
Solubility and foreing matter	Passes test	Passes test
Retained on US Standard No. 10 sieve	Max. 1%	0.1 %
Retained on US Standard No. 60 sieve	Min. 94%	97.3 %
Through US Standard No. 60 sieve	Max. 5%	25%
Through US Standard No. 100 sieve	Max. 10%	0.1 %

COMMENTS

QC: PhC Irma Belmares

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

Recd. by Ri on 7/4/3 E 3551

RE-02-01, Del



Sodium Hydroxide (Pellets)

Material:

0583

Grade:

ACS GRADE

Batch Number:

23B1556310

Chemical Formula:

NaOH

Molecular Weight: CAS#:

Appearance:

1310-73-2

Storage:

Manufacture Date:

Expiration Date:

Room Temperature

12/14/2022

12/31/2025

Pellets

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

Internal ID#: 710

Signature

We certify that this batch conforms to the specifications listed.

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

Leona Edwardson, Quality Control Sr. Manager - Solon VWR Chemicals, LLC. 28600 Fountain Parkway, Solon OH 44139 USA

Additional Information

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



QUALITY ASSURANCE TECHNICAL SUPPORT LABORATORY "An ISO 9001:2015 Certified Program"

R: 02/20

APTIM

Instructions for QATS Reference Material: Inorganic ICV Solutions

For ICP-MS use: dilute the ICV1 concentrate 50-fold with 1% (v/v) nitric acid; pipet 2 mL of the concentrate into a 100 mL volumetric flask and dilute to volume with 1% (v/v) nitric acid.

W3DII W3012

ICV5-0415

For the cold vapor analysis of mercury by AA: dilute the ICV5 concentrate 100-fold with 2% (v/v) nitric acid; pipet 1 mL of the concentrate into a 100 mL volumetric flask and dilute to volume with 2% (v/v) nitric acid. The ICV5 concentrate is prepared in 0.05% (w/v) K₂Cr₂O₇ and 5% (v/v) nitric acid. W3015

W3013 W 3014

ICV6-0400

For the analysis of cyanide: dilute the ICV6 concentrate 100-fold with Type II water; pipet 1 mL of the concentrate into a 100 mL volumetric flask and dilute to volume with Type II water. Distill this solution along with the samples before analysis. The cyanide concentrate is prepared from K₃Fe(CN)₆, Type II water, and 0.1 % sodium hydroxide, and will decompose rapidly if exposed to light.

NOTE: USE TYPE II WATER AND HIGH-PURITY ACIDS FOR ALL DILUTIONS.

CERTIFIED CONCENTRATIONS OF QATS ICV1, ICV5, AND ICV6 SOLUTIONS

ICV1-1014				
Element	Concentration (µg/L) (after 10-fold dilution)	Concentration (µg/L) (after 50-fold dilution)		
Ai	2520	504		
Sb	1010	202		
As	997	199		
Ва	518	104		
Be	514	103		
Cd	514	103		
Ca	10000	2000		
Cr	517	103		
Со	521	104		
Cu	505	101		
Fe	10100	2020		
Pb	1030	206		
Mg	5990	1198		
Mn	524	105		
Ni	525	. 105		
K	9940	1988		
Se	1030	206		
Ag	252	50		
Na	10100	2020		
TI	1040	208		
V	504	101		
Zn	1010	202		

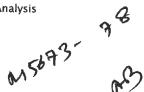
ICV5-0415		ICV6-0400	
Element	Concentration (µg/L) (after-100-fold dilution)	Analyte	Concentration (µg/L) (after 100-fold dilution)
Hg	4.0	CN ⁻	99

Sulfuric Acid BAKER INSTRA-ANALYZED® Reagent

For Trace Metal Analysis

Low Selenium









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

Manufactured Date: 2023-03-22

Retest Date: 2028-03-20 Revision No.: 0

Certificate of Analysis

Test	Specification	Result	_
ACS – Assay (H ₂ SO ₄)	95.0 - 98.0 %	96.1 %	_
Appearance	Passes Test	Passes Test	
ACS – Color (APHA)	≤ 10	5	
ACS – Residue after Ignition	≤ 3 ppm	< 1 ppm	
ACS - Substances Reducing Permanganate (as SO2)	≤ 2 ppm	< 2 ppm	
Ammonium (NH ₄)	≤ 1 ppm	1 ppm	
Chloride (Cl)	≤ 0.1 ppm	< 0.1 ppm	
Nitrate (NO ₃)	≤ 0.2 ppm	< 0.1 ppm	
Phosphate (PO ₄)	≤ 0.5 ppm	< 0.1 ppm	
Trace Impurities - Aluminum (AI)	≤ 30.0 ppb	< 5.0 ppb	
Arsenic and Antimony (as As)	≤ 4.0 ppb	< 2.0 ppb	
Trace Impurities - Boron (B)	≤ 10.0 ppb	8.5 ppb	
Trace Impurities – Cadmium (Cd)	≤ 2.0 ppb	< 0.3 ppb	
Trace Impurities – Chromium (Cr)	≤ 6.0 ppb	< 0.4 ppb	
Trace Impurities - Cobalt (Co)	≤ 0.5 ppb	< 0.3 ppb	
Trace Impurities – Copper (Cu)	≤ 1.0 ppb	< 0.1 ppb	
Trace Impurities – Gold (Au)	≤ 10.0 ppb	0.5 ppb	
Heavy Metals (as Pb)	≤ 500.0 ppb	< 100.0 ppb	
Trace Impurities - Iron (Fe)	≤ 50.0 ppb	1.3 ppb	
Trace Impurities - Lead (Pb)	≤ 0.5 ppb	< 0.5 ppb	
Trace Impurities – Magnesium (Mg)	≤ 7.0 ppb	0.8 ppb	
Trace Impurities – Manganese (Mn)	≤ 1.0 ppb	< 0.4 ppb	
Trace Impurities - Mercury (Hg)	≤ 0.5 ppb	< 0.1 ppb	
Trace Impurities - Nickel (Ni)	≤ 2.0 ppb	0.3 ppb	
Trace Impurities – Potassium (K)	≤ 500.0 ppb	< 2.0 ppb	
Trace Impurities - Selenium (Se)	≤ 50.0 ppb	< 0.1 ppb	
Trace Impurities - Silicon (Si)	≤ 100.0 ppb	31.5 ppb	
Trace Impurities – Silver (Ag)	≤ 1.0 ppb	< 0.3 ppb	

>>> Continued on page 2 >>>

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





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

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

For Laboratory, Research, or Manufacturing Use

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





Product information

Product

pH-Fix 0.3-2.3

REF

92180

LOT

80A0441

Expiration date:

29.02.2028

Date of examination:

23.01.2024

Gradation:

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

Confirmation

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

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

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

Hydrochloric Acid, 36.5-38.0% BAKER INSTRA-ANALYZED® Reagent

For Trace Metal Analysis





R->10/13/24 Met dig

M 6121

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

Revision No: 1

Certificate of Analysis

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

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

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

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

Country of Origin:

US

Packaging Site:

Phillipsburg Mfg Ctr & DC





1.00132.0000 Barbituric acid for analysis EMSURE® N020065932

	Spec. Values	3	Batch Values	
Assay (acidimetric)	≥ 99	%	99.6	%
Identity (IR-spectrum)	passes test		passes test	
Chloride (CI)	≤ 40	ppm	≤ 40	ppm
Heavy metals (as Pb)	≤ 50	ppm	≤ 50	ppm
Fe (Iron)	≤ 10	ppm	≤ 10	ppm
Sulfated ash	≤ 0.1	%	≤ 0.1	%
Loss on Drying (105 °C)	≤ 0.1	%	≤ 0.1	%
Suitability as reagent (for cyanide determination)	passes test		passes test	

Date of release (DD.MM.YYYY) 17.04.2020 Minimum shelf life (DD.MM.YYYY) 30.04.2025

Ioannis Chartomatsidis

Responsible laboratory manager quality control

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

Sodium Phosphate, Monobasic, Monohydrate, Crystal BAKER ANALYZED® A.C.S. Reagent **C**Vavantor™ J.T.Baker

(sodium dihydrogen phosphate, monohydrate)

Material No.: 3818-05 Batch No.: 0000225799

Manufactured Date: 2018/12/05 Retest Date: 2025/12/03

Revision No: 1

Certificate of Analysis

Meets ACS Reagent Chemical Requirements,

Test	Specification	Result
Assay (NaH2PO4 · H2O)	98.0 - 102.0 %	99.5
pH of 5% Solution at 25°C	4.1 - 4.5	4.3
Insoluble Matter	<= 0.01 %	< 0.01
Chloride (CI)	<= 5 ppm	< 5
ACS - Sulfate (SO ₄)	<= 0.003 %	< 0.003
Calcium (Ca)	<= 0.005 %	< 0.005
Potassium (K)	<= 0.01 %	< 0.01
Heavy Metals (as Pb)	<= 0.001 %	< 0.001
Trace Impurities – Iron (Fe)	<= 0.001 %	< 0.001

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

Country of Origin: IN

Packaging Site: Paris Mfg Ctr & DC



W 2979

3050 Spruce Street, Saint Louis, MO 63103, USA

Website: www.sigmaaldrich.com

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

lec: 12/08/22

exp. 12/08/27

Certificate of Analysis

1,5-Diphenylcarbazide - ACS reagent

Product Number:

259225

Batch Number:

MKCR6636

Brand:

SIAL

CAS Number:

140-22-7

MDL Number:

MFCD00003013

Formula:

C13H14N4O

Formula Weight:

242.28 g/mol

Quality Release Date:

02 JUN 2022

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

Larry Coers, Director Quality Control Milwaukee, WI US

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

1841 Broad Street Pocomoke City, MD 21851 http://www.riccachemical.com 1-888-GO-RICCA

customerservice@riccachemical.com

Certificate of Analysis

Manganous Sulfate Solution, 364 g/L

Lot Number: 2403J02 Product Number: 4620

Manufacture Date: MAR 15, 2024

Expiration Date: MAR 2026

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

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

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

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

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

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

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



Jose Pena (03/15/2024)

Operations Manager

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

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

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

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: 4403S13 Product Number: 7900

Manufacture Date: MAR 29, 2024

Expiration Date: SEP 2025

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

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

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

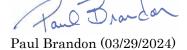
Specification	Reference	
Standard Sodium Thiosulfate Solution, 0.0250 N	APHA (4500-S2- F)	
Standard Sodium Thiosulfate Titrant	APHA (4500-O D)	
Standard Sodium Thiosulfate Titrant	APHA (4500-O E)	
Standard Sodium Thiosulfate Titrant	APHA (4500-O F)	
Standard Sodium Thiosulfate Titrant, 0.025 N	APHA (4500-Cl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

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

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

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

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



Production Manager

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

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

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

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

customerservice@riccachemical.com

Certificate of Analysis

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

Lot Number: 1405D67 Product Number: 535

Manufacture Date: APR 05, 2024

Expiration Date: APR 2026

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

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

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

Specification	Reference

Alkaline Iodide-Sodium Azide Solution II

ASTM (D 888 A)

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

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

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

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

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

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



01/19/2022

01/18/2025

POTASSIUM HYDROGEN PHTHALATE

Material: N983

Grade: ACS GRADE Batch Number: 24A1956910

Chemical Formula: HOOCC6H4COOK

Molecular Weight: 204.22

CAS #: 877-24-7

Appearance: Storage: Room Temperature

White crystals.

TEST	SPECIFICATION	ANALYSIS	DISPOSITION	
Assay (dried basis)	99.95 - 100.05 %	99.97 %	PASS	
Chlorine Compounds	<= 0.003 %	<0.003 %	PASS	
Heavy Metals (as Pb)	<= 5 ppm	<5 ppm	PASS PASS PASS	
Insoluble Matter	<= 0.005 %	0.003 %		
Iron	<= 5 ppm	<5 ppm		
pH (0.05M, Water) @25C	4.00 - 4.02	4.00	PASS	
Sodium	<= 0.005 %	<0.005 %	PASS	
Sulfur Compounds	<= 0.002 %	<0.002 %	PASS	

Manufacture Date:

Reassay Date:

Spec Set: N983ACS

Internal ID #: 710

Signature Additional Information

We certify that this batch conforms to the specifications listed.

This document has been electronically produced and is valid

without a signature.

Leona Edwardson, Quality Control Sr. Manager - Solon

VWR Chemicals, LLC.

28600 Fountain Parkway, Solon OH 44139 USA

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



12/14/2022

12/31/2025

Sodium Hydroxide (Pellets)

Material: 0583

Grade: ACS GRADE Batch Number: 23B1556310

Chemical Formula: NaOH
Molecular Weight: 40

CAS #: 1310-73-2

Appearance: Storage: Room Temperature

Pellets

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

Manufacture Date:

Expiration Date:

Internal ID #: 710

Signature Additional Information

We certify that this batch conforms to the specifications listed.

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

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

28600 Fountain Parkway, Solon OH 44139 USA

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



12/14/2022

12/31/2025

Room Temperature

Manufacture Date:

Expiration Date:

Storage:

Sodium Hydroxide (Pellets)

Material: 0583

Grade: ACS GRADE Batch Number: 23B1556310

Chemical Formula: NaOH Molecular Weight: 40

CAS #: 1310-73-2

Appearance:

Pellets

Spec Set: 0583ACS

Internal ID #: 710

Signature Additional Information

We certify that this batch conforms to the specifications listed.

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

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

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

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

October 20, 2022

CERTIFICATE OF ANALYSIS

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

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

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



An ISO 9001 Certified Company

Certificate of Analysis

PRODUCT: Chlorine Solution Ampule 50-75 mg/l

PRODUCT NUMBER: 1426810 LOT NUMBER: A4144

MANUFACTURE DATE: 05/28/2024 **DATE OF ANALYSIS:** 05/30/2024

TEST	SPECIFICATIONS	RESULTS	
Standard Deviation for the ampules sampled	0 to 0.4 mg/L	0.10 mg/L	
Mean Chlorine Concentration ampules sampled.	50 to 75 mg/L	60.9 mg/L	

The expiration date is Jan 2026

Certified by: Scottals



An ISO 9001 Certified Company

Certificate of Analysis

PRODUCT: Chlorine Solution Ampule 50-75 mg/l

PRODUCT NUMBER: 1426810 LOT NUMBER: A4166

MANUFACTURE DATE: 06/24/2024 **DATE OF ANALYSIS:** 06/25/2024

TEST	SPECIFICATIONS	RESULTS	
Standard Deviation for the ampules sampled	0 to 0.4 mg/L	0.10 mg/L	
Mean Chlorine Concentration ampules sampled.	50 to 75 mg/L	61.9 mg/L	

The expiration date is Feb 2026

Certified by: Scottals



Item Number	ED150	Lot Number	2ND0156	
Item	Edetate Disodium, Dihydrate, USP	CAS Number	6381-92-6	
Molecular Formula	$C_{10}H_{14}N_2Na_2O_8$ •2 H_2O	Molecular Weight	372.24	

7557	SPECIFI	CATION	BECULT	
TEST	MIN	MAX	RESULT	
ASSAY (DRIED BASIS)	99.0	101.0 %	99.5 %	
pH OF A 5% SOLUTION @ 25°C	4.0	6.0	4.6	
LOSS ON DRYING	8.7	11.4 %	8.90 %	
CALCIUM (Ca)	NO PRECIPITATE IS FORMED		NO PRECIPITATE IS FORMED	
ELEMENTAL IMPURITIES:				
NICKEL (Ni)	AS REPORTED		<0.3 ppm	
CHROMIUM (Cr)	AS REPORTED		<0.3 ppm	
NITRILOTRIACETIC ACID[$n[(HOCOCH_2)]$ 3N]		0.1 %	<0.10 %	
IDENTIFICATION A	MATCHES REFERENCE		MATCHES REFERENCE	
IDENTIFICATION B	RED COLOR IS DISCHARGED, LEAVING A YELLOWISH SOLUTION		RED COLOR IS DISCHARGED, LEAVING A YELLOWISH SOLUTION	
IDENTIFICATION C	MEETS THE REQUIREMENTS FOR SODIUM		MEETS THE REQUIREMENTS FOR SODIUM	
CERTIFIED HALAL			CERTIFIED HALAL	
EXPIRATION DATE			10-JUL-2026	
DATE OF MANUFACTURE			11-JUL-2023	
APPEARANCE			WHITE CRYSTALLINE POWDER	
RESIDUAL SOLVENTS		AS REPORTED	NO RESIDUAL SOLVENTS PRESENT	
MONOGRAPH EDITION			USP 2024	

Certificate of Analysis Results Entered By:

CACEVEDO Charmian Acevedo 22-MAY-24 08:12:30

Spectrum Chemical Mfg Corp 755 Jersey Avenue New Brunswick 08901 NJ Certificate of Analysis Results Approved By:

GHERRERA Genaro Herrera 22-MAY-24 12:32:01

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.

The Elemental Impurities standards implemented by USP and other Pharmaceutical Compendia reflect a growing understanding of the toxicology of trace levels of elemental impurities that can remain in drug substances originating from either raw materials or manufacturing processes. Identifying and quantifying impurities can be critical to predicting the best possible patient outcomes. Elemental Impurities has been a requirement of all products meeting USP/NF, EP and BP monographs since January 1, 2018. More information can be found in USP sections <232> Elemental Impurities – Limits and <233> Elemental Impurities – Procedures. Data for drug substances furnished by Spectrum Chemical Mfg. Corp can be used to ensure that patient daily exposures by oral administration to the selected elements are not exceeded in the formulation of pharmaceutical products.



Part of TCP Analytical Group

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

Certificate of Analysis

Cyanide Standard 1000 ppm (1ml = 1mg CN)

Product Code: LC13545 Manufacture Date: August 01, 2024

Lot Number: 44080060 Expiration Date: January 30, 2025

Test	Specification	Result	
Appearance (clarity)	clear solution	clear solution	
Appearance (color)	colorless	colorless	
Concentration (CN)	0.990 - 1.010mg/mL	1.008mg/mL	
Concentration (CN)	990 - 1,010ppm	1,008ppm	
Traceable to NIST SRM	Report	999b	

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 information 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. Balances, thermometers, and glassware are calibrated before first use and on a regular schedule with references traceable to NIST standards.

The suffix of the product code may differ from what is on your product label. The suffix will designate the size and be associated with a numeric digit(s). Visit LabChem.com for more information

Suffix	1	2	3/3S/36/36S	4/4C	5	6	7	8	9	20	44	200	246	486
Size	500mL or g	1L or 1kg	2.5L/2.5L Coated/6x2.5L/6x2.5L Coated	4L	20L	10L	125mL	25g	100g	20x20mL	4x4L	200L	24x6mL	48x6mL





W3139 Received on 9/9/24 by IZ

Product No.: A12044

Product: Chloramine-T trihydrate, 98%

Lot No.: 10239484

Appearance: White powder Melting Point: 166°C(dec)
Assay (Iodometric titration): 100.5% Identification (FTIR): Conforms

Order our products online thermofisher.com/chemicals

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

Products are processed under ISO 9001:2015 quality management systems and samples are tested for conformance to the noted specifications. Certain data may have been supplied by third parties. We disclaim the implied warranties of merchantability and fitness for a particular purpose, and the accuracy of third party data or information associated with the product. Products are for research and development use only. Products are not for direct administration to humans or animals. It is the responsibility of the final formulator or end user to determine suitability, and to qualify and/or validate each product for its intended use.

1841 Broad Street Pocomoke City, MD 21851 http://www.riccachemical.com 1-888-GO-RICCA

customerservice@riccachemical.com

Certificate of Analysis

Sodium Hypochlorite Solution, 5% available Chlorine

Lot Number: 2407F34 Product Number: 7495.5

Manufacture Date: JUL 12, 2024

Expiration Date: JAN 2025

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-yellow liquid	Passed	
Assay (vs. Sodium Thiosulfate/Starch)	$4.75 \text{-} 5.25 \% \text{ (w/w) Cl}_2$	$5.05~\%~(\mathrm{w/w})~\mathrm{Cl_2}$	136

Specification	Reference
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
7495.5-8	250 mL amber poly	6 months

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

Jose Pena (07/12/2024) Operations Manager

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

Version: 1.3 Lot Number: 2407F34 Product Number: 7495.5 Page 1 of 1



An ISO 9001 Certified Company

Certificate of Analysis

This is a Component of 1486266 / LOT A4169

PRODUCT: BOD Nutrient Buffer Pillows

PRODUCT NUMBER: 1486227 LOT NUMBER: A4169

MANUFACTURE DATE: 06/24/2024 **DATE OF ANALYSIS:** 07/03/2024

TEST	SPECIFICATIONS	RESULTS
Calcium Concentration of a diluted pillow	0.93 to 1.29 ppm	0.960 ppm
Magnesium Concentration of a diluted pillow	0.35 to 0.48 ppm	0.390 ppm
pH in a 6 L of DI water	7.1 to 7.6	7.37
Ammonia Concentration of a diluted pillow	0.57 to 0.79 ppm	0.593 ppm
Iron Concentration of a diluted pillow	0.27 to 0.36 ppm	0.311 ppm
Sterility	To Pass	Passed
Phosphorus Concentration of a diluted pillow	7.6 to 10.3 ppm	8.32 ppm
Five Day Change in Dissolved Oxygen Concentration	-0.2 to 0.2 ppm	0.03 ppm

The expiration date is Jun 2029

Certified by: Scottals



An ISO 9001 Certified Company

Certificate of Analysis

PRODUCT: DPD Total Chlorine Reagent

PRODUCT NUMBER: 1406499 LOT NUMBER: A4230

MANUFACTURE DATE: 08/27/2024 **DATE OF ANALYSIS:** 08/28/2024

TEST	SPECIFICATIONS	RESULTS
Percent Recovery for a 2.5 ppm Standard. Chlorine concentration determined using DPD compared to the actual concentration.	93 to 107 %	95.7 %
pH of reagent in 50 mL of DI water.	6.2 to 6.5	6.40
Percent Recovery for a 5.0 ppm Standard. Chlorine concentration determined using DPD compared to the actual concentration.	93 to 107 %	96.2 %
Hardness Blank: 1000 ppm as Calcium Carbonate Hardness standard vs DI water measured at 530 nm in 1 cm cells.	0 to 0.009 abs	0.0020 abs

The expiration date is Aug 2029

Certified by: Scottals

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

customerservice@riccachemical.com

Certificate of Analysis

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

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

Expiration Date: AUG 2026

This product is Mercury-free.

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

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

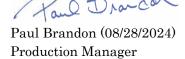
Specification	Reference
Starch Solution	APHA (4500-S2- F)
Starch Indicator Solution	APHA (4500-Cl B)
Starch Indicator	APHA (4500-SO32- B)
Starch indicator solution	APHA (2350 B)
Starch indicator solution	APHA (2350 E)
Starch Solution	APHA (510 B)
Starch Solution	APHA (5530 C)
Starch Indicator	APHA (4500-C1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

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

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

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

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



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

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

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





N3153 12512024 Certificate of Analysis

Material No.: 9262-03 Batch No.: 24G1962003 Manufactured Date: 2024-05-23 Expiration Date: 2025-08-22

Revision No.: 0

Test	Specification	Result
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	≤ 5	3
ECD Sensitive Impurities (as Heptachlor Epoxide) Single Peak (pg/mL)	≤ 10	7
ECD-Sensitive Impurities (as Ethylene Dibromide) – Single Impurity Peak (ng/mL)	≤ 5	1
Assay (Total Saturated C ₆ Isomers) (by GC, corrected for water)	≥ 99.5 %	99.7 %
Assay (as n-Hexane) (by GC, corrected for water)	≥ 95 %	98 %
Color (APHA)	≤ 10	5
Residue after Evaporation	≤ 1.0 ppm	0.1 ppm
Substances Darkened by H2SO4	Passes Test	Passes Test
Nater (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



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

customerservice@riccachemical.com

Certificate of Analysis

Cyanide Standard, 1000 ppm CN

Lot Number: 1411J58 Product Number: 2543

Manufacture Date: NOV 22, 2024 Expiration Date: MAY 2025

This standard is prepared using accurate volumetric techniques from material that has been assayed against Silver Nitrate solution certified traceable to NIST Standard Reference Material 999. The certified value reported is the prepared value based upon the method of preparation of the material. The uncertainty in the prepared value is the combined uncertainty based on the stability of the assayed Potassium Cyanide, and the uncertainty in the mass and volume measurements.

Use 0.16% (w/v) (0.04 N) Sodium Hydroxide or 0.225% (w/v) (0.04 N) Potassium Hydroxide to make dilutions of this standard. Restandardize weekly if extreme accuracy is required.

Name	CAS#	Grade
Water	7732-18-5	ACS/ASTM/USP/EP
Potassium Cyanide	151-50-8	ACS
Sodium Hydroxide	1310-73-2	Reagent

Test	Specification	Result
Appearance	Colorless liquid	Passed
Cyanide (CN)	995-1005 ppm	1000 ppm

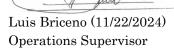
Specification	Reference
Stock Standard Cyanide Solution	APHA (4500-CN- F)
Stock Cyanide Solution	APHA (4500-CN- E)
Stock Cyanide Solution	APHA (4500-CN- K)
Stock Cyanide Solution	APHA (4500-CN- H)
Cyanide Reference Solution (1000 mg/L)	EPA (SW-846) (7.3.3.2)
Cyanide Calibration Stock Solution (1,000 mg/L CN-)	EPA (SW-846) (9213)
Stock Cyanide Solution	EPA (335.3)
Stock Cyanide Solution	EPA (335.2)
Cyanide Solution Stock	ASTM (D 4282)
Simple Cyanide Solution, Stock (1.0 g/L CN)	ASTM (D 4374)

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)
2543-16	500 mL amber poly	6 months
2543-32	1 L amber poly	6 months
2543-4	120 mL amber poly	6 months

Recommended Storage: 2°C - 8°C (36°F - 46°F)

Version: 1.3 Lot Number: 1411J58 Product Number: 2543 Page 1 of 2



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

Version: 1.3 Lot Number: 1411J58 Product Number: 2543 Page 2 of 2



SHIPPING DOCUMENTS



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

QUOTE NO.

P5141

COC Number 2041871

CLIENT INFORMATION		CLIENT PROJECT INFORMATION						CLIENT BILLING INFORMATION											
COMPANY: VEYING CONSULTING Group			PROJECT NAME: YEOTOV CTIP							BILL TO: 588 LEFT PO#: 5183.0001									
ADDRESS: 1011 US-22, SUIR 302		PROJEC	PROJECT NO.: LOCATION: N.3								ADDRESS:								
CITY BYLL	glwater STATE: NJ ZIP: 08807	PROJEC	PROJECT MANAGER: MICHOLA VOLENZI						CITY					STAT	E:	ZIP:			
ATTENTION: MICHAEL YOUNES			e-mail: myalenzievcg-11c.com						ATTENTION: PH					PHO	NE:				
PHONE: 908-864-4400 FAX: 908-864-4401			PHONE: 908-864-4400 FAX: 908-864-4401							ANALYSIS									
DATA TURNAROUND INFORMATION			DATA DELIVERABLE INFORMATION																
FAX (RUSH) 5 DAYS* HARDCOPY (DATA PACKAGE): 5 DAYS* EDD: 5 DAYS* *TO BE APPROVED BY CHEMTECH STANDARD HARDCOPY TURNAROUND TIME IS 10 BUSINESS DAYS			DATA DELIVERABLE INFORMATION Level 1 (Results Only) Level 4 (QC + Full Raw Data) Level 2 (Results + QC) Ny NJ Reduced US EPA CLP Level 3 (Results + QC NyS ASP A NyS ASP B Ny																
СНЕМТЕСН	PROJECT	SAMPLE TYPE				SAMPLE COLLECTION		_									← Speci	fy Preservatives	
SAMPLE SAMPLE IDENTIFICATION		MATRIX	COMP	GRAB	DATE	TIME	# OF BOTTLES	B	2	3	C 4	٤ 5	6	C 7	D 8	9	A-HCI B-HN03 C-H2SO4	D-NaOH E-ICE F-OTHER	
1. Water Treatment Discharge		wω	Х		12/5/24	10:40	G	Х	Х	X	X	X	X						
2. Water Treatment Discharge		ωω			12/5/24		4							×	X				
3.						1													
4.																			
5.																			
6.																			
7.																			
8.																			
9.																			
10.																			
RELINQUISHED BY SAMPLER: DATE/TIME: RELINQUISHED BY SAMPLER: DATE/TIME: DA					Conditions of bottles or coolers at receipt: © COMPLIANT © NON COMPLIANT © COOLER TEMP Comments: PH = 9.67 FIGURATE = 52 Temperature = 71.6 Semi-annual mulais = 2n, Cu, Ni, Cr, Cd, Pb, Ag (Group 5) CLIENT: © Hand Delivered © Other Shipment Complete														
1 2000		Page of CHEMTECH: □ Picked Up □ Field Sampling □ YES □ NO									□ NO								



Laboratory Certification

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

QA Control Code: A2070148