Alliance TECHNICAL GROUP

284 Sheffield Street, Mountainside NJ 07092
Tel. 908-789-8900 Fax: 908-789-8922

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
OR	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
H	Sample Analysis Out Of Hold Time

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LAB CHRONICLE

OrderID:	Q3566	**OrderDate:**	11/6/2025 1:42:00 PM
Client:	VERINA CONSULTING GROUP, LLC	**Project:**	Rotor Clip NJ WTD - 2025
Contact:	Michael Valenzi	**Location:**	J23

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q3566-01	**WATER-TREATMENT DISCHARGE**	**WATER**			**11/06/25 09:32**			**11/06/25**
			Ammonia	SM4500-NH3		11/10/25	11/11/25 12:07	
			Residual Chlorine	SM4500 Cl G			11/07/25 11:03	

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SAMPLE DATA

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Report of Analysis

Client:	VERINA CONSULTING GROUP, LLC	Date Collected:	11/06/25 09:32
Project:	Rotor Clip NJ WTD - 2025	Date Received:	11/06/25
Client Sample ID:	WATER-TREATMENT DISCHARGE	SDG No.:	Q3566
Lab Sample ID:	Q3566-01	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Ammonia as N	1.00		1	0.030	0.10	mg/L	11/10/25 11:40	11/11/25 12:07	SM 4500-NH3 B plus G-21
Residual Chlorine	0.046	HJ	1	0.023	0.10	mg/L		11/07/25 11:03	SM 4500-Cl G-11

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements
H = Sample Analysis Out Of Hold Time

J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

QC RESULT SUMMARY

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Initial and Continuing Calibration Verification

Client: VERINA CONSULTING GROUP, LLC **SDG No.:** Q3566

Project: Rotor Clip NJ WTD - 2025 **RunNo.:** LB137823

Analyte	Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID: ICV						
Residual Chlorine	mg/L	0.382	0.4	96	90-110	11/07/2025
Sample ID: CCV1						
Residual Chlorine	mg/L	0.413	0.4	103	90-110	11/07/2025
Sample ID: CCV2						
Residual Chlorine	mg/L	0.403	0.4	101	90-110	11/07/2025

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Initial and Continuing Calibration Verification

Client: VERINA CONSULTING GROUP, LLC **SDG No.:** Q3566

Project: Rotor Clip NJ WTD - 2025 **RunNo.:** LB137852

Analyte		Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID:	ICV1						
Ammonia as N		mg/L	0.97	1	97	90-110	11/11/2025
Sample ID:	CCV1						
Ammonia as N		mg/L	0.95	1	95	90-110	11/11/2025
Sample ID:	CCV2						
Ammonia as N		mg/L	0.96	1	96	90-110	11/11/2025
Sample ID:	CCV3						
Ammonia as N		mg/L	0.97	1	97	90-110	11/11/2025
Sample ID:	CCV4						
Ammonia as N		mg/L	0.96	1	96	90-110	11/11/2025
Sample ID:	CCV5						
Ammonia as N		mg/L	0.99	1	99	90-110	11/11/2025
Sample ID:	CCV6						
Ammonia as N		mg/L	0.94	1	94	90-110	11/11/2025

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Initial and Continuing Calibration Blank Summary

Client: VERINA CONSULTING GROUP, LLC **SDG No.:** Q3566

Project: Rotor Clip NJ WTD - 2025 **RunNo.:** LB137823

Analyte	Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID: ICB							
Residual Chlorine	mg/L	< 0.0500	0.0500	U	0.023	0.1	11/07/2025
Sample ID: CCB1							
Residual Chlorine	mg/L	< 0.0500	0.0500	U	0.023	0.1	11/07/2025
Sample ID: CCB2							
Residual Chlorine	mg/L	< 0.0500	0.0500	U	0.023	0.1	11/07/2025

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Initial and Continuing Calibration Blank Summary

Client: VERINA CONSULTING GROUP, LLC **SDG No.:** Q3566

Project: Rotor Clip NJ WTD - 2025 **RunNo.:** LB137852

Analyte	Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID: ICB1							
Ammonia as N	mg/L	< 0.0500	0.0500	U	0.030	0.1	11/11/2025
Sample ID: CCB1							
Ammonia as N	mg/L	< 0.0500	0.0500	U	0.030	0.1	11/11/2025
Sample ID: CCB2							
Ammonia as N	mg/L	< 0.0500	0.0500	U	0.030	0.1	11/11/2025
Sample ID: CCB3							
Ammonia as N	mg/L	< 0.0500	0.0500	U	0.030	0.1	11/11/2025
Sample ID: CCB4							
Ammonia as N	mg/L	< 0.0500	0.0500	U	0.030	0.1	11/11/2025
Sample ID: CCB5							
Ammonia as N	mg/L	< 0.0500	0.0500	U	0.030	0.1	11/11/2025
Sample ID: CCB6							
Ammonia as N	mg/L	< 0.0500	0.0500	U	0.030	0.1	11/11/2025

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Preparation Blank Summary

Client: VERINA CONSULTING GROUP, LLC **SDG No.:** Q3566

Project: Rotor Clip NJ WTD - 2025

Analyte	Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID: LB137823BL							
Residual Chlorine	mg/L	< 0.0500	0.0500	U	0.023	0.1	11/07/2025
Sample ID: PB170466BL							
Ammonia as N	mg/L	< 0.0500	0.0500	U	0.03	0.1	11/11/2025

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Matrix Spike Summary

Client: VERINA CONSULTING GROUP, LLC
SDG No.: Q3566
Project: Rotor Clip NJ WTD - 2025
Sample ID: Q3560-01
Client ID: SY-10DMS
Percent Solids for Spike Sample: 0

Analyte	Units	Acceptance Limit %R	Spiked Result	Conc. Qualifier	Sample Result	Conc. Qualifier	Spike Added	Dilution Factor	% Rec	Qual	Analysis Date
Ammonia as N	mg/L	75-125	9.10	OR	8.10	OR	1	1	100		11/11/2025

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Matrix Spike Summary

Client: VERINA CONSULTING GROUP, LLC
SDG No.: Q3566
Project: Rotor Clip NJ WTD - 2025
Sample ID: Q3560-01
Client ID: SY-10DMSD
Percent Solids for Spike Sample: 0

Analyte	Units	Acceptance Limit %R	Spiked Result	Conc. Qualifier	Sample Result	Conc. Qualifier	Spike Added	Dilution Factor	% Rec	Qual	Analysis Date
Ammonia as N	mg/L	75-125	9.10	OR	8.10	OR	1	1	100		11/11/2025

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Matrix Spike Summary

Client: VERINA CONSULTING GROUP, LLC
SDG No.: Q3566
Project: Rotor Clip NJ WTD - 2025
Sample ID: Q3566-01
Client ID: WATER-TREATMENT DISCHARGEMS
Percent Solids for Spike Sample: 0

Analyte	Units	Acceptance Limit %R	Spiked Result	Conc. Qualifier	Sample Result	Conc. Qualifier	Spike Added	Dilution Factor	% Rec	Qual	Analysis Date
Residual Chlorine	mg/L	71-148	0.41		0.046	J	0.4	1	92		11/07/2025

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Matrix Spike Summary

Client: VERINA CONSULTING GROUP, LLC
SDG No.: Q3566
Project: Rotor Clip NJ WTD - 2025
Sample ID: Q3566-01
Client ID: WATER-TREATMENT DISCHARGEMSD
Percent Solids for Spike Sample: 0

Analyte	Units	Acceptance Limit %R	Spiked Result	Conc. Qualifier	Sample Result	Conc. Qualifier	Spike Added	Dilution Factor	% Rec	Qual	Analysis Date
Residual Chlorine	mg/L	71-148	0.42		0.046	J	0.4	1	94		11/07/2025

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Duplicate Sample Summary

Client: VERINA CONSULTING GROUP, LLC
SDG No.: Q3566
Project: Rotor Clip NJ WTD - 2025
Sample ID: Q3560-01
Client ID: SY-10DDUP
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	8.10	OR	8.10	OR	1	0		11/11/2025
Ammonia as N	mg/L	+/-20	7.40	D	7.40	D	10	0		11/11/2025

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Duplicate Sample Summary

Client: VERINA CONSULTING GROUP, LLC
SDG No.: Q3566
Project: Rotor Clip NJ WTD - 2025
Sample ID: Q3560-01
Client ID: SY-10DMSD
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	9.10	OR	9.10	OR	1	0		11/11/2025

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Duplicate Sample Summary

Client: VERINA CONSULTING GROUP, LLC
SDG No.: Q3566
Project: Rotor Clip NJ WTD - 2025
Sample ID: Q3566-01
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	0.046	J	0.046	J	1	0		11/07/2025

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Duplicate Sample Summary

Client: VERINA CONSULTING GROUP, LLC
SDG No.: Q3566
Project: Rotor Clip NJ WTD - 2025
Sample ID: Q3566-01
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	0.41		0.42		1	2.39		11/07/2025

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Laboratory Control Sample Summary

Client: VERINA CONSULTING GROUP, LLC **SDG No.:** Q3566

Project: Rotor Clip NJ WTD - 2025 **Run No.:** LB137823

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID LB137823BS								
Residual Chlorine	mg/L	0.4	0.39		98	1	90-110	11/07/2025

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Laboratory Control Sample Summary

Client: VERINA CONSULTING GROUP, LLC **SDG No.:** Q3566

Project: Rotor Clip NJ WTD - 2025 **Run No.:** LB137852

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID PB170466BS								
Ammonia as N	mg/L	1	0.97		97	1	90-110	11/11/2025

RAW DATA

Reviewed By:jignesh
On:11/10/2025 4:45:26 PM
Inst Id :SPECTROPHOTOME

Analytical Summary Report

Analysis Method: SM4500 Cl G
ANALYST: Iwona
Parameter: Residual Chlorine
SUPERVISOR REVIEW BY: jignesh
Run Number: LB137823

Reagent/Standard	Lot/Log #
Residual chlorine LOD, 0.05PPM	WP115542
Residual chlorine ICV-LCS, 0.4PPM	WP115541
Chlorine Calibration std, 0.1ppm	WP115538
Chlorine Calibration std, 0.2ppm	WP115539
Chlorine Calibration std, 0.8ppm	WP115555
Chlorine Calibration std, 0.0ppm	WP115537
Chlorine Calibration std, 1.6ppm	WP115556
Residual Chlorine LOQ 0.1ppm	WP115543
Residual Chlorine Calibration and CCV std, 0	WP115540
Total Chlorine Powder Pillows	W3147

Intercept: 0.0177 **Slope:** 0.9786 **Regression:** 0.999623

Seq	Lab ID	True Val (mg/l)	DF	Initial Reading	Final Reading	Difference	Result (mg/l)	%D	AnalDate	Anal Time
1	CAL1	0	1	0.000	0.010	0.010	-0.01		11/07/2025	10:20
2	CAL2	0.1	1	0.000	0.120	0.120	0.11	5	11/07/2025	10:23
3	CAL3	0.2	1	0.000	0.200	0.200	0.19	-7	11/07/2025	10:26
4	CAL4	0.4	1	0.000	0.410	0.410	0.40	0.3	11/07/2025	10:29
5	CAL5	0.8	1	0.000	0.830	0.830	0.83	3.7	11/07/2025	10:32
6	CAL6	1.6	1	0.000	1.570	1.570	1.59	-0.9	11/07/2025	10:35

Analytical Summary Report

Analysis Method: SM4500 Cl G
ANALYST: Iwona
Parameter: Residual Chlorine
SUPERVISOR REVIEW BY: jignesh
Run Number: LB137823

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	0.3900	0.3900	0.3820	11/07/2025	10:38
2	ICB				1	0.0000	0.0000	0.0000	-0.0150	11/07/2025	10:41
3	CCV1			0.4	1	0.0000	0.4200	0.4200	0.4130	11/07/2025	10:44
4	CCB1				1	0.0000	0.0000	0.0000	-0.0150	11/07/2025	10:47
5	LB137823BL	50	50		1	0.0000	0.0100	0.0100	-0.0050	11/07/2025	10:50
6	LB137823BS	50	50	0.4	1	0.0000	0.4000	0.4000	0.3930	11/07/2025	10:53
7	Q3530-07	50	50		1	0.0000	0.0600	0.0600	0.0460	11/07/2025	10:57
8	Q3530-08	50	50		1	0.0000	0.1100	0.1100	0.0940	11/07/2025	11:00
9	Q3566-01	50	50		1	0.0000	0.0600	0.0600	0.0460	11/07/2025	11:03
10	Q3566-01DUP	50	50		1	0.0000	0.0600	0.0600	0.0460	11/07/2025	11:06
11	Q3566-01MS	50	50	0.4	1	0.0000	0.4200	0.4200	0.4130	11/07/2025	11:09
12	Q3566-01MSD	50	50	0.4	1	0.0000	0.4300	0.4300	0.4230	11/07/2025	11:12
13	CCV2			0.4	1	0.0000	0.4100	0.4100	0.4030	11/07/2025	11:15
14	CCB2				1	0.0000	0.0100	0.0100	-0.0050	11/07/2025	11:18

WORKLIST(Hardcopy Internal Chain)

LB137823

WorkList Name : CHLORINE 3566 **WorkList ID :** 192954 **Department :** Wet-Chemistry **Date :** 11-06-2025 17:38:47

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q3530-07	LOD-MDL-WATER-01-QT4-202	Water	Residual Chlorine	Cool 4 deg C	ALLI03	QA Of	11/03/2025	SM4500 Cl G
Q3530-08	LOQ-WATER-02-QT4-2025	Water	Residual Chlorine	Cool 4 deg C	ALLI03	QA Of	11/03/2025	SM4500 Cl G
Q3566-01	WATER-TREATMENT DISCHAI	Water	Residual Chlorine	Cool 4 deg C	VERI01	J23	11/06/2025	SM4500 Cl G

Date/Time 11/07/25 10:05

Raw Sample Received by: 12(w C)

Raw Sample Relinquished by: 12(w C)

Date/Time 11/07/25 11:35

Raw Sample Received by: 12(w C)

Raw Sample Relinquished by: 12(w C)

LB137852

Reviewed By:Iwona
On:11/12/2025 1:04:18 PM
Inst Id :Konelab 20
LB :LB137852

Test results | Aquakem 7.2AQ1 | Page: 1

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284 Sheffield Street, Mountainside, NJ 07092

Reviewed by : RM | Instrument ID : Konelab

11/11/2025 13:51

Test: Ammonia-N

Sample Id	Result	Dil. 1 +	Response	Errors
ICV1	0.965	0.0	0.197	
ICB1	0.011	0.0	0.019	
CCV1	0.953	0.0	0.195	
CCB1	0.012	0.0	0.019	
RL CHECK	0.093	0.0	0.034	93% (50-150) 11/11/2025 RM
PB170466BL	0.014	0.0	0.020	
PB170466BS	0.974	0.0	0.198	
Q3530-08	0.110	0.0	0.038	
Q3554-01	8.281	0.0	1.558	Test limit high
Q3560-01	8.111	0.0	1.527	Test limit high
Q3560-01DUP	8.132	0.0	1.531	Test limit high
Q3560-01MS	9.060	0.0	1.703	Test limit high
Q3560-01MSD	9.061	0.0	1.704	Test limit high
CCV2	0.956	0.0	0.195	
CCB2	0.013	0.0	0.020	
Q3560-03	0.015	0.0	0.020	
Q3560-05	0.074	0.0	0.031	
Q3560-07	32.190	0.0	6.009	Init abs., Test limit hig
Q3560-09	1.401	0.0	0.278	
Q3566-01	1.031	0.0	0.209	
Q3575-01	3.637	0.0	0.694	Test limit high
Q3575-02	3.669	0.0	0.700	Test limit high
PB170467BL	0.017	0.0	0.020	
PB170467BS	0.968	0.0	0.197	
CCV3	0.968	0.0	0.197	
CCB3	0.015	0.0	0.020	
Q3530-02	0.109	0.0	0.037	
Q3483-07	26.826	0.0	5.010	Init abs., Test limit hig
CCV4	0.962	0.0	0.196	
CCB4	0.017	0.0	0.020	
Q3554-01DLX10	0.766	0.0	0.160	
Q3560-01DLX10	0.743	0.0	0.155	
Q3560-01DUPDLX10	0.739	0.0	0.155	
Q3560-07DLX20	2.160	0.0	0.419	Test limit high
Q3575-01DLX5	0.700	0.0	0.147	
Q3575-02DLX5	0.698	0.0	0.147	
Q3483-07DLX20	1.241	0.0	0.248	
CCV5	0.987	0.0	0.201	
CCB5	0.016	0.0	0.020	
Q3530-07	0.084	0.0	0.033	
Q3530-01	0.085	0.0	0.033	
Q3560-07DL2X40	1.049	0.0	0.212	
CCV6	0.944	0.0	0.193	
CCB6	0.019	0.0	0.021	

N	44
Mean	2.929
SD	6.4540
CV%	220.35

Aquakem v. 7.2AQ1
Results from time period:
Tue Nov 11 10:21:07 2025
Tue Nov 11 13:46:45 2025

Sample Id	Sam/Ctr/cA	Test short r	Test type	Result	Result unit	Result date and time
0.0PPM	A	Ammonia-N	P	0.0156	mg/l	11/11/2025 10:21:07
0.1PPM	A	Ammonia-N	P	0.1113	mg/l	11/11/2025 10:21:08
0.2PPM	A	Ammonia-N	P	0.2016	mg/l	11/11/2025 10:21:09
0.4PPM	A	Ammonia-N	P	0.3916	mg/l	11/11/2025 10:21:10
1.0PPM	A	Ammonia-N	P	0.9896	mg/l	11/11/2025 10:21:11
1.3PPM	A	Ammonia-N	P	1.2858	mg/l	11/11/2025 10:21:12
2.0PPM	A	Ammonia-N	P	2.0378	mg/l	11/11/2025 10:21:13
ICV1	S	Ammonia-N	P	0.9652	mg/l	11/11/2025 11:35:15
ICB1	S	Ammonia-N	P	0.0114	mg/l	11/11/2025 11:35:17
CCV1	S	Ammonia-N	P	0.9533	mg/l	11/11/2025 11:35:19
CCB1	S	Ammonia-N	P	0.012	mg/l	11/11/2025 11:35:21
RL CHECK	S	Ammonia-N	P	0.093	mg/l	11/11/2025 11:35:24
PB170466BL	S	Ammonia-N	P	0.014	mg/l	11/11/2025 11:45:59
PB170466BS	S	Ammonia-N	P	0.9743	mg/l	11/11/2025 11:46:01
Q3530-08	S	Ammonia-N	P	0.11	mg/l	11/11/2025 11:46:06
Q3554-01	S	Ammonia-N	P	8.2812	mg/l	11/11/2025 11:46:08
Q3560-01	S	Ammonia-N	P	8.1108	mg/l	11/11/2025 11:46:09
Q3560-01DUP	S	Ammonia-N	P	8.1315	mg/l	11/11/2025 11:56:44
Q3560-01MS	S	Ammonia-N	P	9.0598	mg/l	11/11/2025 11:56:45
Q3560-01MSD	S	Ammonia-N	P	9.0607	mg/l	11/11/2025 11:56:46
CCV2	S	Ammonia-N	P	0.9558	mg/l	11/11/2025 11:56:49
CCB2	S	Ammonia-N	P	0.0132	mg/l	11/11/2025 11:56:52
Q3560-03	S	Ammonia-N	P	0.0148	mg/l	11/11/2025 11:56:53
Q3560-05	S	Ammonia-N	P	0.0742	mg/l	11/11/2025 11:56:54
Q3560-07	S	Ammonia-N	P	32.1902	mg/l	11/11/2025 12:07:27
Q3560-09	S	Ammonia-N	P	1.4013	mg/l	11/11/2025 12:07:28
Q3566-01	S	Ammonia-N	P	1.0306	mg/l	11/11/2025 12:07:29
Q3575-01	S	Ammonia-N	P	3.6373	mg/l	11/11/2025 12:07:30
Q3575-02	S	Ammonia-N	P	3.6691	mg/l	11/11/2025 12:07:31
PB170467BL	S	Ammonia-N	P	0.0166	mg/l	11/11/2025 12:07:33
PB170467BS	S	Ammonia-N	P	0.9678	mg/l	11/11/2025 12:07:34
CCV3	S	Ammonia-N	P	0.9678	mg/l	11/11/2025 12:18:13
CCB3	S	Ammonia-N	P	0.0153	mg/l	11/11/2025 12:18:16
Q3530-02	S	Ammonia-N	P	0.1088	mg/l	11/11/2025 12:18:17
Q3483-07	S	Ammonia-N	P	26.8257	mg/l	11/11/2025 12:18:20
CCV4	S	Ammonia-N	P	0.9622	mg/l	11/11/2025 12:28:24
CCB4	S	Ammonia-N	P	0.0166	mg/l	11/11/2025 12:28:27
Q3554-01DLX10	S	Ammonia-N	P	0.7655	mg/l	11/11/2025 13:06:05
Q3560-01DLX10	S	Ammonia-N	P	0.7427	mg/l	11/11/2025 13:06:07

Q3560-01DUPDLX10	S	Ammonia-N P	0.7393 mg/l	11/11/2025 13:06:08
Q3560-07DLX20	S	Ammonia-N P	2.1597 mg/l	11/11/2025 13:06:10
Q3575-01DLX5	S	Ammonia-N P	0.6996 mg/l	11/11/2025 13:16:43
Q3575-02DLX5	S	Ammonia-N P	0.6979 mg/l	11/11/2025 13:16:44
Q3483-07DLX20	S	Ammonia-N P	1.2405 mg/l	11/11/2025 13:16:47
CCV5	S	Ammonia-N P	0.9865 mg/l	11/11/2025 13:22:12
CCB5	S	Ammonia-N P	0.0163 mg/l	11/11/2025 13:22:13
Q3530-07	S	Ammonia-N P	0.0843 mg/l	11/11/2025 13:46:35
Q3530-01	S	Ammonia-N P	0.0855 mg/l	11/11/2025 13:46:36
Q3560-07DL2X40	S	Ammonia-N P	1.0495 mg/l	11/11/2025 13:46:41
CCV6	S	Ammonia-N P	0.9438 mg/l	11/11/2025 13:46:42
CCB6	S	Ammonia-N P	0.0195 mg/l	11/11/2025 13:46:45

Calibration results Aquakem 7.2AQ1 Page: 1

Alliance Technical Group
284 Sheffield Street, Mountainside, NJ 07092

Reviewed by : RM Instrument ID : Konelab

11/11/2025 10:23

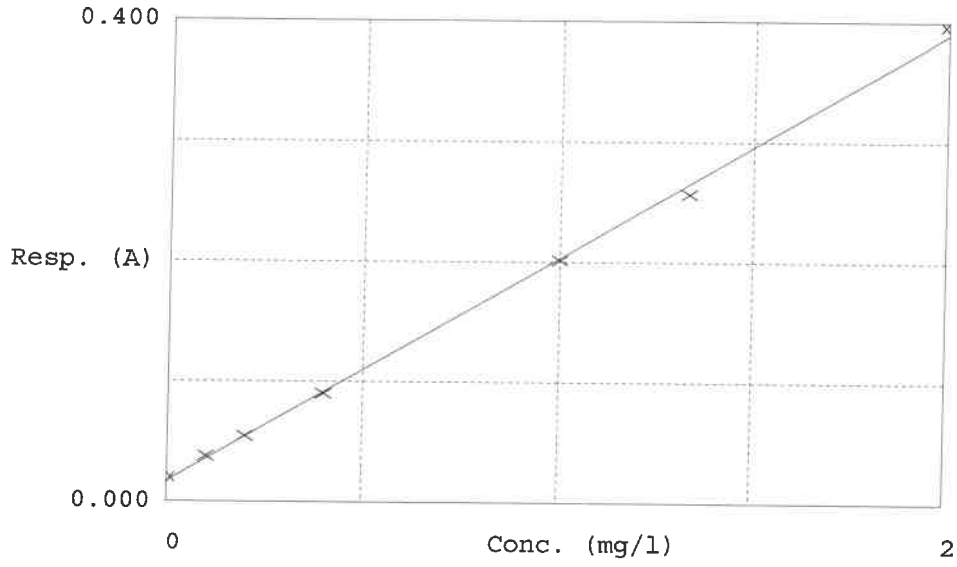
Test Ammonia-N

Accepted 11/11/2025 10:23

Factor 5.373
Bias 0.017

Coeff. of det. 0.998745

Errors



	Calibrator	Response	Calc. con.	Conc.	Errors
1	0.00PPM	0.020	0.0156	0.0000	-
2	NH3-2PPM	0.038	0.1113	0.1000	11.3
3	NH3-2PPM	0.055	0.2016	0.2000	0.8
4	NH3-2PPM	0.090	0.3916	0.4000	-2.1
5	NH3-2PPM	0.201	0.9896	1.0000	-1.0
6	NH3-2PPM	0.256	1.2858	1.3333	-1.1
7	NH3-2PPM	0.396	2.0378	2.0000	1.9

11/11/2025
RM

Alliance TECHNICAL GROUP

Water Ammonia Preparation Sheet

PB170466

SOP ID : MSM4500-NH3 B,G-Ammonia-18

SDG No : N/A

Matrix : WATER

Pippete ID : WC

Balance ID : N/A

Hood ID : HOOD#2

Block ID : WC-DIST-BLOCK-1

Weigh By : N/A

Start Digest Date: 11/10/2025 **Time :** 11:40 **Temp :** 150 °C

End Digest Date: 11/10/2025 **Time :** 12:40 **Temp :** 160 °C

1 batch 11/10/2025 13:15 150 JRM

11/10/2025 14:15 160 JRM

Digestion tube ID : M5595

Filter paper ID : N/A

pH Meter ID : N/A

Block Thermometer ID : WC CYANIDE

Prep Technician Signature: RM

Supervisor Signature: JZ

Standared Name	MLS USED	STD REF. # FROM LOG
LCSW	1.0ML	WP115589
MS/MSD SPIKE SOL.	1.0ML	WP115588
PBW	50.0ML	W3112
LOD	0.8ML	WP115585
LOQ	1.0ML	WP115585

Chemical Used	ML/SAMPLE USED	Lot Number
BORATE BUFFER	2.5ML	WP113886
NAOH 6N	0.5-2.0ML	WP113887
H2SO4 0.04N	5.0ML	WP115336
pH strip-Ammonia	N/A	W3133
KI-starch paper	N/A	W3155
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

ALL GLASSWEAR ARE STEAMED OUT AND THERE WERE NO TRACE OF AMMONIA USING NESLER REAGENT WP114104. Due to bad matrix and client history 1ML was taken as an initial volume for Q3554-01

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
11/10/2025 14:30	RM (WC)	RM (WC)
	Preparation Group	**Analysis Group**

Alliance TECHNICAL GROUP

Water Ammonia Preparation Sheet

PB170466

Lab Sample ID	Client Sample ID	Initial Vol (ml)	Final Vol (ml)	pH	Sulfide	Oxidizing	Nitrate/ Nitrite	Comment	Prep Pos
PB170466BL	PBW466	50	50	<2	N/A	Negative	N/A	AFTER ADDING 6N NAOH PH IS 9.5	N/A
PB170466BS	LCS466	50	50	<2	N/A	Negative	N/A	AFTER ADDING 6N NAOH PH IS 9.5	N/A
Q3530-07	LOD-MDL-WATER-01-QT4-2025	50	50	<2	N/A	Negative	N/A	AFTER ADDING 6N NAOH PH IS 9.5	N/A
Q3530-08	LOQ-WATER-02-QT4-2025	50	50	<2	N/A	Negative	N/A	AFTER ADDING 6N NAOH PH IS 9.5	N/A
Q3554-01	EFFLUENT	1	50	<2	N/A	Negative	N/A	AFTER ADDING 6N NAOH PH IS 9.5	N/A
Q3560-01	SY-10D	50	50	<2	N/A	Negative	N/A	AFTER ADDING 6N NAOH PH IS 9.5	N/A
Q3560-01DUP	SY-10DDUP	50	50	<2	N/A	Negative	N/A	AFTER ADDING 6N NAOH PH IS 9.5	N/A
Q3560-01MS	SY-10DMS	50	50	<2	N/A	Negative	N/A	AFTER ADDING 6N NAOH PH IS 9.5	N/A
Q3560-01MSD	SY-10DMSD	50	50	<2	N/A	Negative	N/A	AFTER ADDING 6N NAOH PH IS 9.5	N/A
Q3560-03	SY-10S	50	50	<2	N/A	Negative	N/A	AFTER ADDING 6N NAOH PH IS 9.5	N/A
Q3560-05	SY-10I	50	50	<2	N/A	Negative	N/A	AFTER ADDING 6N NAOH PH IS 9.5	N/A
Q3560-07	SY-12I	50	50	<2	N/A	Negative	N/A	AFTER ADDING 6N NAOH PH IS 9.5	N/A
Q3560-09	SY-12D	50	50	<2	N/A	Negative	N/A	AFTER ADDING 6N NAOH PH IS 9.5	N/A
Q3566-01	WATER-TREATMENT DISCHARGE	50	50	<2	N/A	Negative	N/A	AFTER ADDING 6N NAOH PH IS 9.5	N/A
Q3575-01	001 WILLETS PT BLVD (NOV)	50	50	<2	N/A	Negative	N/A	AFTER ADDING 6N NAOH PH IS 9.5	N/A
Q3575-02	002 35TH AVE (NOV)	50	50	<2	N/A	Negative	N/A	AFTER ADDING 6N NAOH PH IS 9.5	N/A

WORKLIST(Hardcopy Internal Chain)

WorkList Name : AMMONIA-11-10 **WorkList ID :** 193018 **Department :** Distillation **Date :** 11-10-2025 09:05:14

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q3530-07	LOD-MDL-WATER-01-QT4-202	Water	Ammonia	Conc H2SO4 to pH < 2	ALLI03	QA Of	11/03/2025	SM4500-NH3
Q3530-08	LOQ-WATER-02-QT4-2025	Water	Ammonia	Conc H2SO4 to pH < 2	ALLI03	QA Of	11/03/2025	SM4500-NH3
Q3554-01	EFFLUENT	Water	Ammonia	Conc H2SO4 to pH < 2	HOLL01	D41	11/05/2025	SM4500-NH3
Q3560-01	SY-10D	Water	Ammonia	Conc H2SO4 to pH < 2	LOCK01	J22	11/05/2025	SM4500-NH3
Q3560-03	SY-10S	Water	Ammonia	Conc H2SO4 to pH < 2	LOCK01	J22	11/05/2025	SM4500-NH3
Q3560-05	SY-10I	Water	Ammonia	Conc H2SO4 to pH < 2	LOCK01	J22	11/05/2025	SM4500-NH3
Q3560-07	SY-12I	Water	Ammonia	Conc H2SO4 to pH < 2	LOCK01	J22	11/05/2025	SM4500-NH3
Q3560-09	SY-12D	Water	Ammonia	Conc H2SO4 to pH < 2	LOCK01	J22	11/05/2025	SM4500-NH3
Q3566-01	WATER-TREATMENT DISCHAI	Water	Ammonia	Conc H2SO4 to pH < 2	LOCK01	J22	11/05/2025	SM4500-NH3
Q3575-01	001 Willets Pt Blvd (Nov)	Water	Ammonia	Conc H2SO4 to pH < 2	VERI01	J23	11/06/2025	SM4500-NH3
Q3575-02	002 35th Ave (Nov)	Water	Ammonia	Conc H2SO4 to pH < 2	TULL01	J11	11/06/2025	SM4500-NH3

Date/Time 11/10/2025 09.00
Raw Sample Received by: RM (WC)
Raw Sample Relinquished by: MCCOY

Date/Time 11/10/2025 13.45
Raw Sample Received by: MCCOY
Raw Sample Relinquished by: RM (WC)

Alliance TECHNICAL GROUP

Soil/Sludge Ammonia Preparation Sheet

PB170467

SOP ID : MSM4500-NH3 B,G-Ammonia-18

SDG No : N/A

Start Digest Date: 11/10/2025 **Time :** 15:00 **Temp :** 150 °C

Matrix : SOIL

End Digest Date: 11/10/2025 **Time :** 16:00 **Temp :** 160 °C

Pippete ID : WC

Balance ID : WC SC-7

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:** RM

Weigh By : RM **pH Meter ID :** N/A **Supervisor Signature:** 12

Standared Name	MLS USED	STD REF. # FROM LOG
LCSS	1.0ML	WP115589
PBS003	50.0ML	W3112
RL CHECK	N/A	AS PER PB170466
LOD	0.8ML	WP115590
LOQ	1.0ML	WP115590

Chemical Used	ML/SAMPLE USED	Lot Number
BORATE BUFFER	2.5ML	WP113886
NAOH 6N	0.5-2.0ML	WP113887
H2SO4 0.04N	5.0ML	WP115336
pH strip-Ammonia	N/A	W3133
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/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 WP114104,

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
11/10/2025 16:15	RM CWO	RM CWO
	Preparation Group	Analysis Group

Alliance TECHNICAL GROUP

Soil/Sludge Ammonia Preparation Sheet

PB170467

Lab Sample ID	Client Sample ID	Initial Weight (g)	Final Vol (ml)	pH	Sulfide	Oxidizing	Nitrate/ Nitrite	Comment	Prep Pos
PB170467BL	PBS467	1.00	50	N/A	N/A	N/A	N/A	AFTER ADDING 6N NAOH PH IS 9.5	N/A
PB170467BS	LCS467	1.00	50	N/A	N/A	N/A	N/A	AFTER ADDING 6N NAOH PH IS 9.5	N/A
Q3483-07	HW1025-PT-NUT-SOIL	1.00	50	N/A	N/A	N/A	N/A	AFTER ADDING 6N NAOH PH IS 9.5	N/A
Q3530-01	LOD-MDL-SOIL-01-QT4-2025	1.00	50	N/A	N/A	N/A	N/A	AFTER ADDING 6N NAOH PH IS 9.5	N/A
Q3530-02	LOQ-SOIL-02-QT4-2025	1.00	50	N/A	N/A	N/A	N/A	AFTER ADDING 6N NAOH PH IS 9.5	N/A

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

Instrument ID: SPECTROPHOTOMETER-1

Daily Analysis Runlog For Sequence/QCBatch ID # LB137823

Review By	Iwona	Review On	11/10/2025 11:19:12 AM
Supervise By	jignesh	Supervise On	11/10/2025 4:45:26 PM
SubDirectory	LB137823	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	WP115542,WP115541,WP115538,WP115539,WP115555,WP115537,WP115556,WP115543,WP115540,W3147

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	CAL1	CAL1	CAL	11/07/25 10:20		Iwona	OK
2	CAL2	CAL2	CAL	11/07/25 10:23		Iwona	OK
3	CAL3	CAL3	CAL	11/07/25 10:26		Iwona	OK
4	CAL4	CAL4	CAL	11/07/25 10:29		Iwona	OK
5	CAL5	CAL5	CAL	11/07/25 10:32		Iwona	OK
6	CAL6	CAL6	CAL	11/07/25 10:35		Iwona	OK
7	ICV	ICV	ICV	11/07/25 10:38		Iwona	OK
8	ICB	ICB	ICB	11/07/25 10:41		Iwona	OK
9	CCV1	CCV1	CCV	11/07/25 10:44		Iwona	OK
10	CCB1	CCB1	CCB	11/07/25 10:47		Iwona	OK
11	LB137823BL	LB137823BL	MB	11/07/25 10:50		Iwona	OK
12	LB137823BS	LB137823BS	LCS	11/07/25 10:53		Iwona	OK
13	Q3530-07	LOD-MDL-WATER-01	SAM	11/07/25 10:57		Iwona	OK
14	Q3530-08	LOQ-WATER-02-QT4	SAM	11/07/25 11:00		Iwona	OK
15	Q3566-01	WATER-TREATMENT	SAM	11/07/25 11:03		Iwona	OK
16	Q3566-01DUP	WATER-TREATMENT	DUP	11/07/25 11:06		Iwona	OK
17	Q3566-01MS	WATER-TREATMENT	MS	11/07/25 11:09		Iwona	OK
18	Q3566-01MSD	WATER-TREATMENT	MSD	11/07/25 11:12		Iwona	OK

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Instrument ID: SPECTROPHOTOMETER-1

Daily Analysis Runlog For Sequence/QCBatch ID # LB137823

Review By	Iwona	Review On	11/10/2025 11:19:12 AM
Supervise By	jignesh	Supervise On	11/10/2025 4:45:26 PM
SubDirectory	LB137823	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	WP115542,WP115541,WP115538,WP115539,WP115555,WP115537,WP115556,WP115543,WP115540,W3147

19	CCV2	CCV2	CCV	11/07/25 11:15		Iwona	OK
20	CCB2	CCB2	CCB	11/07/25 11:18		Iwona	OK

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Instrument ID: KONELAB

Daily Analysis Runlog For Sequence/QCBatch ID # LB137852

Review By	rubina	Review On	11/12/2025 1:03:52 PM
Supervise By	Iwona	Supervise On	11/12/2025 1:04:18 PM
SubDirectory	LB137852	Test	Ammonia

STD. NAME	STD REF.#
ICAL Standard	WP115598
ICV Standard	WP115600
CCV Standard	WP115599
ICSA Standard	N/A
CRI Standard	N/A
LCS Standard	WP115589
Chk Standard	WP115290,WP114133,WP113929,WP114132,WP115590

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	0.0PPM	0.0PPM	CAL1	11/11/25 10:21		rubina	OK
2	0.1PPM	0.1PPM	CAL2	11/11/25 10:21		rubina	OK
3	0.2PPM	0.2PPM	CAL3	11/11/25 10:21		rubina	OK
4	0.4PPM	0.4PPM	CAL4	11/11/25 10:21		rubina	OK
5	1.0PPM	1.0PPM	CAL5	11/11/25 10:21		rubina	OK
6	1.3PPM	1.3PPM	CAL6	11/11/25 10:21		rubina	OK
7	2.0PPM	2.0PPM	CAL7	11/11/25 10:21		rubina	OK
8	ICV1	ICV1	ICV	11/11/25 11:35		rubina	OK
9	ICB1	ICB1	ICB	11/11/25 11:35		rubina	OK
10	CCV1	CCV1	CCV	11/11/25 11:35		rubina	OK
11	CCB1	CCB1	CCB	11/11/25 11:35		rubina	OK
12	RL	RL	LOQ	11/11/25 11:35		rubina	OK
13	PB170466BL	PB170466BL	MB	11/11/25 11:45		rubina	OK
14	PB170466BS	PB170466BS	LCS	11/11/25 11:46		rubina	OK
15	Q3530-08	LOQ-WATER-02-QT4	LOQ	11/11/25 11:46		rubina	OK
16	Q3554-01	EFFLUENT	SAM	11/11/25 11:46	NH3 is high, need dilution	rubina	Dilution
17	Q3560-01	SY-10D	SAM	11/11/25 11:46	NH3 is high, need dilution	rubina	Dilution
18	Q3560-01DUP	SY-10DDUP	DUP	11/11/25 11:56	NH3 is high, need dilution	rubina	Dilution

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Fax : 908 789 8922

Instrument ID: KONELAB

Daily Analysis Runlog For Sequence/QCBatch ID # LB137852

Review By	rubina	Review On	11/12/2025 1:03:52 PM
Supervise By	Iwona	Supervise On	11/12/2025 1:04:18 PM
SubDirectory	LB137852	Test	Ammonia

STD. NAME	STD REF.#
ICAL Standard	WP115598
ICV Standard	WP115600
CCV Standard	WP115599
ICSA Standard	N/A
CRI Standard	N/A
LCS Standard	WP115589
Chk Standard	WP115290,WP114133,WP113929,WP114132,WP115590

19	Q3560-01MS	SY-10DMS	MS	11/11/25 11:56		rubina	OK
20	Q3560-01MSD	SY-10DMSD	MSD	11/11/25 11:56		rubina	OK
21	CCV2	CCV2	CCV	11/11/25 11:56		rubina	OK
22	CCB2	CCB2	CCB	11/11/25 11:56		rubina	OK
23	Q3560-03	SY-10S	SAM	11/11/25 11:56		rubina	OK
24	Q3560-05	SY-10I	SAM	11/11/25 11:56		rubina	OK
25	Q3560-07	SY-12I	SAM	11/11/25 12:07	NH3 is high, need dilution	rubina	Dilution
26	Q3560-09	SY-12D	SAM	11/11/25 12:07		rubina	OK
27	Q3566-01	WATER-TREATMENT	SAM	11/11/25 12:07		rubina	OK
28	Q3575-01	001 Willets Pt Blvd (N	SAM	11/11/25 12:07	NH3 is high, need dilution	rubina	Dilution
29	Q3575-02	002 35th Ave (Nov)	SAM	11/11/25 12:07	NH3 is high, need dilution	rubina	Dilution
30	PB170467BL	PB170467BL	MB	11/11/25 12:07		rubina	OK
31	PB170467BS	PB170467BS	LCS	11/11/25 12:07		rubina	OK
32	CCV3	CCV3	CCV	11/11/25 12:18		rubina	OK
33	CCB3	CCB3	CCB	11/11/25 12:18		rubina	OK
34	Q3530-02	LOQ-SOIL-02-QT4-20	LOQ	11/11/25 12:18		rubina	OK
35	Q3483-07	HW1025-PT-NUT-SO	SAM	11/11/25 12:18	NH3 is high, need dilution	rubina	Dilution
36	CCV4	CCV4	CCV	11/11/25 12:28		rubina	OK
37	CCB4	CCB4	CCB	11/11/25 12:28		rubina	OK
38	Q3554-01DL	EFFLUENTDL	SAM	11/11/25 13:06	10X For NH3	rubina	Confirms

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Fax : 908 789 8922

Instrument ID: KONELAB

Daily Analysis Runlog For Sequence/QCBatch ID # LB137852

Review By	rubina	Review On	11/12/2025 1:03:52 PM
Supervise By	Iwona	Supervise On	11/12/2025 1:04:18 PM
SubDirectory	LB137852	Test	Ammonia

STD. NAME	STD REF.#
ICAL Standard	WP115598
ICV Standard	WP115600
CCV Standard	WP115599
ICSA Standard	N/A
CRI Standard	N/A
LCS Standard	WP115589
Chk Standard	WP115290,WP114133,WP113929,WP114132,WP115590

39	Q3560-01DL	SY-10DDL	SAM	11/11/25 13:06	10X For NH3	rubina	Confirms
40	Q3560-01DUPDL	SY-10DDUPDL	DUP	11/11/25 13:06	10X For NH3	rubina	Confirms
41	Q3560-07DL	SY-12IDL	SAM	11/11/25 13:06	20x For NH3 Still high	rubina	Dilution
42	Q3575-01DL	001 Willets Pt Blvd (N	SAM	11/11/25 13:16	5X For NH3	rubina	Confirms
43	Q3575-02DL	002 35th Ave (Nov)DL	SAM	11/11/25 13:16	5X For NH3	rubina	Confirms
44	Q3483-07DL	HW1025-PT-NUT-SO	SAM	11/11/25 13:16	20x For NH3	rubina	Confirms
45	CCV5	CCV5	CCV	11/11/25 13:22		rubina	OK
46	CCB5	CCB5	CCB	11/11/25 13:22		rubina	OK
47	Q3530-07	LOD-MDL-WATER-01	SAM	11/11/25 13:46		rubina	OK
48	Q3530-01	LOD-MDL-SOIL-01-Q	SAM	11/11/25 13:46		rubina	OK
49	Q3560-07DL2	SY-12IDL2	SAM	11/11/25 13:46	40X For NH3	rubina	Confirms
50	CCV6	CCV6	CCV	11/11/25 13:46		rubina	OK
51	CCB6	CCB6	CCB	11/11/25 13:46		rubina	OK

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Prep Standard - Chemical Standard Summary

Order ID : Q3566

Test : Ammonia,Residual Chlorine

Prepbatch ID : PB170466,

Sequence ID/Qc Batch ID: LB137823,LB137852,

Standard ID :
WP113885,WP113886,WP113887,WP113929,WP114132,WP114133,WP115085,WP115086,WP115290,WP115336,WP115535,WP115536,WP115537,WP115538,WP115539,WP115540,WP115541,WP115542,WP115543,WP115555,WP115556,WP115585,WP115588,WP115589,WP115590,WP115598,WP115599,WP115600,

Chemical ID :
M6186,W2663,W2666,W3112,W3113,W3130,W3131,W3132,W3133,W3139,W3147,W3155,W3195,W3196,W3201,W3222,

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Wet Chemistry STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1796	NaOH, 0.1N	WP113885	07/10/2025	12/31/2025	Rubina Mughal	WETCHEM_SCALE_8 (WCSC-7)	None	Iwona Zarych 07/10/2025

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

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1494	BORATE BUFFER	WP113886	07/10/2025	12/31/2025	Rubina Mughal	WETCHEM_SCALE_8 (WCSC-7)	None	Iwona Zarych 07/10/2025

FROM 0.90250L of W3112 + 9.50000gram of W3201 + 88.00000ml of WP113885 = Final Quantity: 1.000 L

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Wet Chemistry STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1471	NaOH Solution, 6N	WP113887	07/10/2025	12/31/2025	Rubina Mughal	WETCHEM_SCALE_8 (WCSC-7)	None	Iwona Zarych 07/10/2025

FROM 240.00000gram of W3113 + 760.00000ml of W3112 = Final Quantity: 1000.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
290	Phenol reagent for Ammonia	WP113929	07/14/2025	12/31/2025	Rubina Mughal	WETCHEM_SCALE_8 (WCSC-7)	None	Iwona Zarych 07/15/2025

FROM 3.20000gram of W3113 + 8.30000gram of W2663 + 88.80000ml of W3112 = Final Quantity: 100.000 ml

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Wet Chemistry STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
635	EDTA BUFFER FOR AMMONIA	WP114132	07/31/2025	12/31/2025	Rubina Mughal	WETCHEM_SCALE_8 (WCSC-7)	None	Iwona Zarych 07/31/2025

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

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
289	Sodium Hypochlorite for Ammonia	WP114133	07/31/2025	12/31/2025	Rubina Mughal	None	None	Iwona Zarych 08/04/2025

FROM 50.00000ml of W3112 + 50.00000ml of W3222 = Final Quantity: 100.000 ml

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Wet Chemistry STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
153	Ammonia Stock Std. (1000 ppm)	WP115085	10/08/2025	04/08/2026	Rubina Mughal	WETCHEM_SCALE_8 (WCSC-7)	None	Iwona Zarych 10/08/2025

FROM 3.81900gram of W3196 + 996.18100ml of W3112 = Final Quantity: 1000.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1895	Ammonia Stock Std, 1000PPM-SS	WP115086	10/08/2025	04/08/2026	Rubina Mughal	WETCHEM_SCALE_8 (WCSC-7)	None	Iwona Zarych 10/08/2025

FROM 3.81900gram of W3195 + 996.18100ml of W3112 = Final Quantity: 1000.000 ml

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Wet Chemistry STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
740	sodium nitroferricyanide for ammonia	WP115290	10/22/2025	11/22/2025	Rubina Mughal	WETCHEM_SCALE_5 (WCSC-5)	None	Iwona Zarych 10/24/2025

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

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1597	0.04 N H2SO4	WP115336	10/27/2025	04/27/2026	Rubina Mughal	None	WETCHEM_PIPETTE_3 (WC)	Jignesh Parikh 10/27/2025

FROM 1.00000ml of M6186 + 999.00000ml of W3112 = Final Quantity: 1000.000 ml

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Wet Chemistry STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3443	Residual chlorine std, Intermediate 10PPM	WP115535	11/07/2025	11/08/2025	Iwona Zarych	None	Glass Pipette-A	Jignesh Parikh 11/07/2025

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

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3444	Residual chlorine std, Intermediate-SS 10PPM	WP115536	11/07/2025	11/08/2025	Iwona Zarych	None	Glass Pipette-A	Jignesh Parikh 11/07/2025

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

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Wet Chemistry STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3710	Chlorine Calibration std, 0.0ppm	WP115537	11/07/2025	11/08/2025	Iwona Zarych	None	Glass Pipette-A	Jignesh Parikh 11/07/2025

FROM 50.00000ml of W3112 = Final Quantity: 50.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3707	Chlorine Calibration std, 0.1ppm	WP115538	11/07/2025	11/08/2025	Iwona Zarych	None	WETCHEM_PIPETTE_3 (WC)	Jignesh Parikh 11/07/2025

FROM 49.50000ml of W3112 + 0.50000ml of WP115535 = Final Quantity: 50.000 ml

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Wet Chemistry STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3708	Chlorine Calibration std, 0.2ppm	WP115539	11/07/2025	11/08/2025	Iwona Zarych	None	WETCHEM_PIPETTE_3 (WC)	Jignesh Parikh 11/07/2025

FROM 49.00000ml of W3112 + 1.00000ml of WP115535 = Final Quantity: 50.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3799	Residual Chlorine Calibration and CCV std, 0.4PPM	WP115540	11/07/2025	11/08/2025	Iwona Zarych	None	WETCHEM_PIPETTE_3 (WC)	Jignesh Parikh 11/07/2025

FROM 96.00000ml of W3112 + 4.00000ml of WP115535 = Final Quantity: 100.000 ml

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Wet Chemistry STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3452	Residual chlorine ICV-LCS, 0.4PPM	WP115541	11/07/2025	11/08/2025	Iwona Zarych	None	WETCHEM_PIPETTE_3 (WC)	Jignesh Parikh 11/07/2025

FROM 48.00000ml of W3112 + 2.00000ml of WP115536 = Final Quantity: 50.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3450	Residual chlorine LOD, 0.05PPM	WP115542	11/07/2025	11/08/2025	Iwona Zarych	None	WETCHEM_PIPETTE_3 (WC)	Jignesh Parikh 11/07/2025

FROM 49.75000ml of W3112 + 0.25000ml of WP115535 = Final Quantity: 50.000 ml

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Wet Chemistry STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3744	Residual Chlorine LOQ 0.1ppm	WP115543	11/07/2025	11/08/2025	Iwona Zarych	None	WETCHEM_PIPETTE_3 (WC)	Jignesh Parikh 11/07/2025

FROM 49.50000ml of W3112 + 0.50000ml of WP115535 = Final Quantity: 50.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3709	Chlorine Calibration std, 0.8ppm	WP115555	11/07/2025	11/08/2025	Iwona Zarych	None	Glass Pipette-A	Jignesh Parikh 11/10/2025

FROM 46.00000ml of W3112 + 4.00000ml of WP115535 = Final Quantity: 50.000 ml

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Wet Chemistry STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3711	Chlorine Calibration std, 1.6ppm	WP115556	11/07/2025	11/08/2025	Iwona Zarych	None	Glass Pipette-A	Jignesh Parikh 11/10/2025

FROM 42.00000ml of W3112 + 8.00000ml of WP115535 = Final Quantity: 50.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1582	Chloramine T solution, 0.014M	WP115585	11/10/2025	11/11/2025	Rubina Mughal	WETCHEM_SCALE_5 (WCSC-5)	Glass Pipette-A	Iwona Zarych 11/10/2025

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

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Wet Chemistry STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1322	Ammonia Intermediate Std, 50PPM	WP115588	11/10/2025	12/10/2025	Rubina Mughal	None	WETCHEM_PIPETTE_3 (WC)	Jignesh Parikh 11/11/2025

FROM 95.00000ml of W3112 + 5.00000ml of WP115085 = Final Quantity: 100.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1639	Ammonia Intermediate Std-Second source, 50PPM	WP115589	11/10/2025	12/10/2025	Rubina Mughal	None	WETCHEM_PIPETTE_3 (WC)	Jignesh Parikh 11/11/2025

FROM 95.00000ml of W3112 + 5.00000ml of WP115086 = Final Quantity: 100.000 ml

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Wet Chemistry STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3906	Ammonia MDL-LOD-LOQ spiking solution -5ppm	WP115590	11/10/2025	11/11/2025	Rubina Mughal	None	WETCHEM_PIPETTE_3 (WC)	Jignesh Parikh 11/11/2025

FROM 45.00000ml of W3112 + 5.00000ml of WP115588 = Final Quantity: 50.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
275	Ammonia Calibration Std. (2 ppm)	WP115598	11/11/2025	11/12/2025	Rubina Mughal	None	WETCHEM_PIPETTE_3 (WC)	Jignesh Parikh 11/11/2025

FROM 48.00000ml of W3112 + 2.00000ml of WP115588 = Final Quantity: 50.000 ml

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Wet Chemistry STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
285	Ammonia CCV Std. (1 ppm)	WP115599	11/11/2025	11/12/2025	Rubina Mughal	None	WETCHEM_PIPETTE_3 (WC)	Jignesh Parikh 11/11/2025

FROM 49.00000ml of W3112 + 1.00000ml of WP115588 = Final Quantity: 50.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
286	Ammonia ICV Std. (1 ppm)	WP115600	11/11/2025	11/12/2025	Rubina Mughal	None	WETCHEM_PIPETTE_3 (WC)	Jignesh Parikh 11/11/2025

FROM 49.00000ml of W3112 + 1.00000ml of WP115589 = Final Quantity: 50.000 ml

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CHEMICAL RECEIPT LOG BOOK

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	07/12/2026	08/13/2025 / Sagar	08/06/2025 / Sagar	M6186

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	P1060-10 / PHENOL, ACS, 500G	2HD0179	01/27/2030	01/27/2020 / apatel	01/27/2020 / apatel	W2663

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	87683 / Sodium Nitroferricyanide 250g	W12F013	02/10/2030	02/10/2020 / apatel	02/10/2020 / apatel	W2666

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	DIW / DI Water	Daily Lab-Certified	07/03/2029	07/03/2024 / Iwona	07/03/2024 / Iwona	W3112

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
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 #
HACH	14268-10 / Chlorine Std, Pk of 16	A4144	01/31/2026	07/25/2024 / Iwona	07/25/2024 / Iwona	W3130

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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
HACH	14268-10 / Chlorine Std, Pk of 16	A4166	02/28/2026	07/25/2024 / Iwona	07/25/2024 / Iwona	W3131

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	PC05050-1 / EDTA, disodium salt, dihydrate 1 lb	2ND0156	07/10/2026	07/26/2024 / Iwona	07/26/2024 / Iwona	W3132

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.	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 #
HACH	14064-99 / Total Chlorine Powder Pillows	A4230	08/31/2029	10/01/2024 / Iwona	10/01/2024 / Iwona	W3147

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,PK100,CS12	14-860	12/02/2029	12/02/2024 / Iwona	12/02/2024 / Iwona	W3155

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CHEMICAL RECEIPT LOG BOOK

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	24L0356561	08/31/2027	03/19/2025 / Iwona	03/19/2025 / Iwona	W3195

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	MKCV1009	09/30/2026	03/19/2025 / Iwona	03/19/2025 / Iwona	W3196

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	BCCL9613	05/31/2029	04/16/2025 / Iwona	04/16/2025 / Iwona	W3201

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	2506M51	12/31/2025	07/02/2025 / Iwona	07/02/2025 / Iwona	W3222

spectrum® CHEMICAL MFG CORP

Certificate Of Analysis

Item Number	P1060	Lot Number	2HD0179
Item	Phenol, Loose Crystal, Reagent, ACS		
CAS Number	108-95-2		
Molecular Formula	C_6H_6O	Molecular Weight	94.11

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

Spectrum Chemical Mfg Corp
755 Jersey Avenue
New Brunswick 08901 NJ

Certificate Of Analysis Results Certified by

Ibad Tirmizi
Director of Quality
Spectrum Chemical Mfg. Corp.

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

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

ThermoFisher SCIENTIFIC

Certificate of Analysis

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

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

avantor™ | J.T.Baker®

M6186

Recien Date 8- 08/06/25

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_2SO_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 (Al)	≤ 30.0 ppb	< 5.0 ppb
Arsenic and Antimony (as As)	≤ 4.0 ppb	< 2.0 ppb
Trace Impurities - Boron (B)	≤ 10.0 ppb	8.5 ppb
Trace Impurities - Cadmium (Cd)	≤ 2.0 ppb	< 0.3 ppb
Trace Impurities - Chromium (Cr)	≤ 6.0 ppb	< 0.4 ppb
Trace Impurities - Cobalt (Co)	≤ 0.5 ppb	< 0.3 ppb
Trace Impurities - Copper (Cu)	≤ 1.0 ppb	< 0.1 ppb
Trace Impurities - Gold (Au)	≤ 10.0 ppb	0.5 ppb
Heavy Metals (as Pb)	≤ 500.0 ppb	< 100.0 ppb
Trace Impurities - Iron (Fe)	≤ 50.0 ppb	1.3 ppb
Trace Impurities - Lead (Pb)	≤ 0.5 ppb	< 0.5 ppb
Trace Impurities - Magnesium (Mg)	≤ 7.0 ppb	0.8 ppb
Trace Impurities - Manganese (Mn)	≤ 1.0 ppb	< 0.4 ppb
Trace Impurities - Mercury (Hg)	≤ 0.5 ppb	< 0.1 ppb
Trace Impurities - Nickel (Ni)	≤ 2.0 ppb	0.3 ppb
Trace Impurities - Potassium (K)	≤ 500.0 ppb	< 2.0 ppb
Trace Impurities - Selenium (Se)	≤ 50.0 ppb	< 0.1 ppb
Trace Impurities - Silicon (Si)	≤ 100.0 ppb	31.5 ppb
Trace Impurities - Silver (Ag)	≤ 1.0 ppb	< 0.3 ppb

>>> Continued on page 2 >>>

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

avantor™ | J.T.Baker®

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

James T Ethier

Jamie Ethier
Vice President Global Quality

For questions on this Certificate of Analysis please contact Technical Services at 855 282 6867 or +1 610 286 1700

Certificate of Analysis

Sodium Hydroxide (Pellets)

Material: 0583

Grade: ACS GRADE

Batch Number: 23B1556310

Chemical Formula: NaOH
Molecular Weight: 40
CAS #: 1310-73-2
Appearance:

Pellets

Manufacture Date: 12/14/2022
Expiration Date: 12/31/2025

Storage: Room Temperature

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.

Product meets analytical specifications of the grades listed.

Certificate of Analysis

Sodium Hydroxide (Pellets)

Material: **0583**

Grade: **ACS GRADE**

Batch Number: **23B1556310**

Chemical Formula:	NaOH	Manufacture Date:	12/14/2022
Molecular Weight:	40	Expiration Date:	12/31/2025
CAS #:	1310-73-2		
Appearance:		Storage:	Room Temperature

Pellets

Spec Set: 0583ACS

Internal ID #: 710

Signature

We certify that this batch conforms to the specifications listed.

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

Additional Information

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Product meets analytical specifications of the grades listed.

Loveland, CO 80539
(970) 669-3050

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: Scott Als

Analytical Services Chemist

Loveland, CO 80539
(970) 669-3050

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: Scott Als

Analytical Services Chemist

spectrum® CHEMICAL MFG CORP

Certificate Of Analysis

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

TEST	SPECIFICATION		RESULT
	MIN	MAX	
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

Certificate of Analysis Results Approved By:

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

Spectrum Chemical Mfg Corp
755 Jersey Avenue
New Brunswick 08901 NJ

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.

ThermoFisher SCIENTIFIC

Certificate of Analysis

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

Loveland, CO 80539
(970) 669-3050

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: Scott Als

Analytical Services Chemist

W3195 Received on 03/19/2025 by IZ

Certificate of Analysis

Material	BDH9208-500G
Material Description	BDH AMMONIUM CHLORIDE ACS 500G
Grade	U S P REAGENT (ACS GRADE)
Batch	24L0356561
Reassay Date	08/31/2027
CAS Number	12125-02-9
Molecular Formula	NH4Cl
Molecular Mass	53.49
Date of Manufacture	08/01/2024
Storage	Room Temperature

Characteristics	Specifications	Measured Values
Appearance	White granular powder	White granular powder
Calcium	<= 0.001 %	0.001 %
Heavy Metals (as Pb)	<= 0.0005 %	<0.0002 %
Insolubles	<= 0.005 %	0.001 %
Iron	<= 0.0002 %	<0.0002 %
Magnesium	<= 0.0005 %	0.0001 %
pH (5%, Water) @25C	4.5 - 5.5	4.8
Phosphate	<= 0.0002 %	<0.0002 %
Purity	>= 99.5 %	99.8 %
Residue on Ignition	<= 0.01 %	0.003 %
Sulfate	<= 0.002 %	<0.002 %

Extra Description: Meets Reagent Specifications for testing USP/NF monographs

Internal ID #: 710

Signature

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

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

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

Additional Information

Analysis may have been rounded to significant digits in specification limits

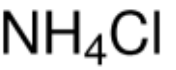
Product meets analytical specifications of the grades listed.

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

W3196 Received on 03/19/2025 by IZ

Certificate of Analysis

Product Name:
Ammonium chloride - ACS reagent, ≥99.5%



Product Number:	**213330**
Batch Number:	**MKCV1009**
Brand:	SIGALD
CAS Number:	12125-02-9
MDL Number:	MFCD00011420
Formula:	H4ClN
Formula Weight:	53.49 g/mol
Quality Release Date:	23 OCT 2023
Recommended Retest Date:	SEP 2026

Test	Specification	Result
Appearance (Color)	White	White
Appearance (Form)	Powder or Crystals or Chunk(s)	Crystals
Titration by AgNO3	≥ 99.5 %	100.2 %
pH @ 25 Deg c (5% Solution)	4.5 - 5.5	4.9
Insoluble Matter 10%, H2O	≤ 0.005 %	0.001 %
Residue on ignition (Ash)	≤ 0.01 %	< 0.01 %
Calcium (Ca)	≤ 0.001 %	< 0.001 %
Magnesium (Mg)	≤ 5 ppm	1 ppm
Heavy Metals by ICP	≤ 5 ppm	< 1 ppm
Iron (Fe)	≤ 2 ppm	< 1 ppm
Phosphate (PO4)	≤ 2 ppm	< 2 ppm
Sulfate (SO4)	≤ 0.002 %	< 0.002 %
Meets ACS Requirements	Current ACS Specification	Conforms
Recommended Retest Period 3 Years	----------	----------

Larry Coers, Director

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

Certificate of Analysis

Product Number: **213330**
Batch Number: **MKCV1009**

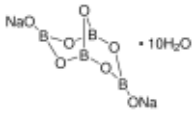
Quality Control
Milwaukee, WI US

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

W3201 Received on 4/16/25 by IZ

Certificate of Analysis

Product Name:
Sodium tetraborate decahydrate - ACS reagent, ≥99.5%



Product Number:	**S9640**
Batch Number:	**BCCL9613**
Brand:	SIGALD
CAS Number:	1303-96-4
Formula:	B4Na2O7 · 10H2O
Formula Weight:	381,37 g/mol
Quality Release Date:	05 JUL 2024
Recommended Retest Date:	MAY 2029

Test	Specification	Result
Appearance (Color)	White	White
Appearance (Form)	Powder or Crystals	Powder
Titration with NaOH	99.5 - 105.0 %	100.7 %
pH	9.15 - 9.20	9.20
0.01 m Solution at 25 Deg C		
Meets ACS Requirements	Corresponds to Requirements	Corresponds
ACS Specifications	Corresponds to Requirements	Corresponds
Insoluble Matter <= 0.005% / Heavy		
Metals (As Pb) <= 0.001%		
Calcium (Ca)	≤ 50 mg/kg	< 50 mg/kg
Iron (Fe)	≤ 5 mg/kg	< 5 mg/kg
Total Sulfur	≤ 50 mg/kg	< 50 mg/kg
as SO4 (ICP)		
Chloride (Cl)	≤ 10 mg/kg	< 10 mg/kg
Phosphate (PO4)	≤ 10 mg/kg	< 10 mg/kg

Dr.Reinhold Schwenninger
Quality Assurance
Buchs,Switzerland CH

RICCA CHEMICAL COMPANY®

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: 2506M51 **Product Number:** 7495.5

Manufacture Date: JUN 18, 2025
Expiration Date: DEC 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)	4.75-5.25 % (w/w) Cl_2	5.17 % (w/w) 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

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

Jose Pena (06/18/2025)
Operations Manager

SHIPPING DOCUMENTS

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

ALLIANCE PROJECT NO. Q 3566
QUOTE NO.
COC Number 2046940

CLIENT INFORMATION

REPORT TO BE SENT TO:
COMPANY: Verina Consulting Group
ADDRESS: 1011 US Highway 22, Suite 302
CITY Bridgewater STATE: NJ ZIP: 08807
ATTENTION: ~~Mia~~ Michael Valenzi
PHONE: 908-864-4400 FAX: 908-864-4401

CLIENT PROJECT INFORMATION

PROJECT NAME: RotorClip
PROJECT NO.: 5183.0001 LOCATION: NJ
PROJECT MANAGER: Michael Valenzi
e-mail: mvalenzi@vcg-llc.com
PHONE: 908-864-4400 FAX: 908-864-4401

CLIENT BILLING INFORMATION

BILL TO: see left PO#:
ADDRESS:
CITY STATE: ZIP:
ATTENTION: PHONE:

DATA TURNAROUND 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

DATA DELIVERABLE INFORMATION

- ☐ Level 1 (Results Only)
- ☐ Level 2 (Results + QC)
- ☐ Level 3 (Results + QC + Raw Data)
- ☐ Level 4 (QC + Full Raw Data)
- ☒ NJ Reduced
- ☐ US EPA CLP
- ☐ NYS ASP A
- ☐ NYS ASP B
- ☐ Other
- ☐ EDD FORMAT

ANALYSIS

1. Cr, Cu, Ni, Zn
2. Chlorine Demand
3. Ammonia
4. 5
6. 7
8. 9

ALLIANCE SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE COMP	SAMPLE TYPE GRAB	SAMPLE COLLECTION DATE	SAMPLE COLLECTION TIME	# OF BOTTLES	PRESERVATIVES 1	2	3	4	5	6	7	8	9	COMMENTS
1.	Water Treatment Discharge	WW	X		11/6/25	09:32	3	X	X	X							
2.																	
3.																	
4.																	
5.																	
6.																	
7.																	
8.																	
9.																	
10.																	

PRESERVATIVES: B, D, C

← Specify Preservatives
A-HCl D-NaOH
B-HN03 E-ICE
C-H2SO4 F-OTHER

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY

	DATE/TIME	RECEIVED BY
RELINQUISHED BY SAMPLER: 1.	11/6/25 09:45	RECEIVED BY: 1. 1235 11-6-25
RELINQUISHED BY SAMPLER: 2.	DATE/TIME:	RECEIVED BY: 2.
RELINQUISHED BY SAMPLER: 3.	DATE/TIME: 1328 11-6-25	RECEIVED BY: 3.

Conditions of bottles or coolers at receipt: ☐ COMPLIANT ☐ NON COMPLIANT ☐ COOLER TEMP 3.1 °C
Comments: Flow Rate = 47
pH = 9.40
Temperature = 68.2
Cr, Cu, Ni, Zn = Metals Group 4

Page 1 of 1

CLIENT: ☐ Hand Delivered ☐ Other

Shipment Complete ☐ YES ☐ NO

WHITE - ALLIANCE COPY FOR RETURN TO CLIENT YELLOW - ALLIANCE COPY PINK - SAMPLER COPY

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

Laboratory Certification

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