

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

8900, Fax: 908 789 8922

Prep Standard - Chemical Standard Summary

Order ID :	Q3061
Test :	Residual Chlorine, Turbidity
Prepbatch ID :	
Sequence ID/Qc Bate	ch ID: LB137137,LB137138,
	2,WP114703,WP114704,WP114705,WP114706,WP114707,WP114708,WP114709,WP114710,WP /P114713,WP114714,WP114715,WP114716,WP114717,WP114718,WP114719,WP114720,WP114
Chemical ID : W3078,W3081,W311	2,W3116,W3130,W3131,W3147,



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Wet Chemistry STANDARD PREPARATION LOG

Recipe ID	NAME.	<u>NO.</u>	Prep Date	Expiration Date	Prepared By	<u>ScaleID</u>	<u>PipettelD</u>	Supervised By Jignesh Parikh
3443	Residual chlorine std, Intermediate 10PPM	WP114701	09/10/2025	09/11/2025	lwona Zarych	None	Glass Pipette-A	09/11/2025

FROM 42.7	'5000ml of W3112 +	7.25000ml of W3130	= Final Quantity: 50.000 m	ıl
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Recipe ID	NAME	<u>NO.</u>	Prep Date	Expiration Date	Prepared By	<u>ScaleID</u>	<u>PipetteID</u>	Supervised By Jignesh Parikh
3444	Residual chlorine std, Intermediate-SS 10PPM	<u>WP114702</u>	09/10/2025	09/11/2025	lwona Zarych	None	Glass Pipette-A	09/11/2025

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	<u>NO.</u>	Prep Date	Expiration Date	Prepared By	<u>ScaleID</u>	<u>PipetteID</u>	Supervised By Jignesh Parikh
3710	Chlorine Calibration std, 0.0ppm	WP114703	09/10/2025	09/11/2025	Iwona Zarych	None	None	3 3 3
								09/11/2025
	50,00000 L (MO440 F: LO L							

FROM 50.00000ml of W3112 = Final Quantity: 50.000 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>	Jignesh Parikh
3707	Chlorine Calibration std, 0.1ppm	WP114704	09/10/2025	09/11/2025	Iwona Zarych	None	WETCHEM_F	
							IPETTE_3	09/11/2025

FROM 49.50000ml of W3112 + 0.50000ml of WP114701 = Final Quantity: 50.000 ml



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Wet Chemistry STANDARD PREPARATION LOG

Recipe ID	<u>NAME</u>	NO.	Prep Date	Expiration Date	Prepared By	<u>ScaleID</u>	<u>PipetteID</u>	Supervised By Jignesh Parikh	
3708	Chlorine Calibration std, 0.2ppm	<u>WP114705</u>	09/10/2025	09/11/2025	Iwona Zarych	None	WETCHEM_F IPETTE_3	09/11/2025	
EDOM	EDOM 49 00000ml of W3112 + 1 00000ml of WP114701 = Final Quantity: 50 000 ml								

FROM	49.00000mi of W3112 +	1.00000ml of WP 114701	= Final Quantity: 50.000 mi

Recipe ID	NAME	<u>NO.</u>	Prep Date	Expiration Date	Prepared By	<u>ScaleID</u>	<u>PipettelD</u>	Supervised By Jignesh Parikh
3799	Residual Chlorine Calibration and CCV std, 0.4PPM	<u>WP114706</u>	09/10/2025	09/11/2025	lwona Zarych	None	WETCHEM_F IPETTE_3 (WC)	09/11/2025

FROM 96.00000ml of W3112 + 4.00000ml of WP114701 = Final Quantity: 100.000 ml



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Wet Chemistry STANDARD PREPARATION LOG

Recipe ID	<u>NAME</u>	NO.	Prep Date	Expiration Date	Prepared By	<u>ScaleID</u>	<u>PipetteID</u>	Supervised By Jignesh Parikh	
3709	Chlorine Calibration std, 0.8ppm	<u>WP114707</u>	09/10/2025	09/11/2025	lwona Zarych	None	WETCHEM_F IPETTE_3	09/11/2025	
EDOM	(WC)								

FROM	46.00000ml of W3112 + 4.00000ml of WP114701 = Final Quantity: 50.000 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>	Jignesh Parikh
3711	Chlorine Calibration std, 1.6ppm	<u>WP114708</u>	09/10/2025	09/11/2025	Iwona Zarych	None	Glass Pipette-A	09/11/2025

FROM 42.00000ml of W3112 + 8.00000ml of WP114701 = Final Quantity: 50.000 ml



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Wet Chemistry STANDARD PREPARATION LOG

Recipe ID	<u>NAME</u>	NO.	Prep Date	Expiration Date	Prepared By	<u>ScaleID</u>	<u>PipetteID</u>	Supervised By Jignesh Parikh		
3452	Residual chlorine ICV-LCS, 0.4PPM	<u>WP114709</u>	09/10/2025	09/11/2025	lwona Zarych	None	WETCHEM_F IPETTE_3	09/11/2025		
FDOM	(WC)									

<u>FROM</u>	48.00000mi of	W3112 + 2.000	JUUMI OF WP11470)2 = Finai Quan	itity: 50.000 n	ור

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
3450	Residual chlorine LOD, 0.05PPM	WP114710	09/10/2025	09/11/2025	Iwona Zarych	None	WETCHEM_F	
							IPETTE_3	09/11/2025

FROM 49.75000ml of W3112 + 0.25000ml of WP114701 = Final Quantity: 50.000 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		
1167	hydrazine sulfate solution 1	WP114711	09/09/2025	10/09/2025	Iwona Zarych	WETCHEM_S				
						CALE_5 (WC		09/11/2025		
FROM	FROM 1.00000gram of W3078 + 99.00000ml of W3112 = Final Quantity: 100.000 ml									

<u>FROM</u>	1.00000gram of W3078 + 99.00000ml of W3112 = Final Quantity: 100.000 ml

Recipe ID	<u>NAME</u>	<u>NO.</u>	Prep Date	Expiration Date	Prepared By	<u>ScaleID</u>	<u>PipettelD</u>	Supervised By Jignesh Parikh
1843	HEXAMETHYLENETETRAMINE SOLUTION 1	<u>WP114712</u>	09/09/2025	10/09/2025	lwona Zarych	WETCHEM_S CALE_5 (WC	None	09/11/2025

10.00000gram of W3081 + 90.00000ml of W3112 = Final Quantity: 100.000 ml **FROM**



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Wet Chemistry STANDARD PREPARATION LOG

Recipe ID	<u>NAME</u>	NO.	Prep Date	Expiration Date	Prepared By	<u>ScaleID</u>	<u>PipetteID</u>	Supervised By Jignesh Parikh	
1102	Formazin turbidity 400 NTU suspension	<u>WP114713</u>	09/09/2025	10/09/2025	lwona Zarych	None	WETCHEM_F IPETTE_3	09/11/2025	
EDOM	(WC)								

|--|

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
3713	Turbidity Calibration std, 0NTU	WP114714	09/10/2025	09/11/2025	Iwona Zarych	None	None	Ü
								09/11/2025

FROM 100.00000ml of W3112 = Final Quantity: 100.000 ml



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Wet Chemistry STANDARD PREPARATION LOG

3718 Turbidity Calibration std, 40NTU WP114715 09/10/2025 09/11/2025 Iwona Zarych None Glass Pipette-A 09/11/2025	Recipe ID	NAME.	NO.	Prep Date	Expiration Date	Prepared By	<u>ScaleID</u>	<u>PipetteID</u>	Supervised By Jignesh Parikh
	3718	Turbidity Calibration std, 40NTU	<u>WP114715</u>	09/10/2025	09/11/2025	lwona Zarych	None		09/11/2025

Recipe				Expiration	<u>Prepared</u>			Supervised By
<u>ID</u>	NAME	NO.	Prep Date	<u>Date</u>	<u>By</u>	<u>ScaleID</u>	<u>PipetteID</u>	Jignesh Parikh
3714	Turbidity Calibration std, 20NTU	WP114716	09/10/2025	09/11/2025	Iwona Zarych	None	Glass	
							Pipette-A	09/11/2025

FROM 95.00000ml of W3112 + 5.00000ml of WP114713 = Final Quantity: 100.000 ml



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Wet Chemistry STANDARD PREPARATION LOG

Recipe ID	<u>NAME</u>	NO.	Prep Date	Expiration Date	Prepared By	<u>ScaleID</u>	<u>PipettelD</u>	Supervised By Jignesh Parikh
3807	Turbidity Calibration - CCV std, 10 NTU	WP114717	09/10/2025	09/11/2025	lwona Zarych	None	WETCHEM_F IPETTE_3	09/11/2025
FDOM	(VVC)							

Recipe				Expiration	<u>Prepared</u>			Supervised By
<u>ID</u>	<u>NAME</u>	NO.	Prep Date	<u>Date</u>	<u>By</u>	<u>ScaleID</u>	<u>PipetteID</u>	Jignesh Parikh
3722	Turbidity Calibration std, 5NTU	WP114718	09/10/2025	09/11/2025	Iwona Zarych	None	Glass	Ü
							Pipette-A	09/11/2025

FROM 87.50000ml of W3112 + 12.50000ml of WP114715 = Final Quantity: 100.000 ml



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Wet Chemistry STANDARD PREPARATION LOG

3720 Turbidity Calibration std, 1NTU WP114719 09/10/2025 09/11/2025 Iwona Zarych None Glass Pipette-A 09/11/2025	Recipe ID	<u>NAME</u>	NO.	Prep Date	Expiration Date	Prepared By	<u>ScaleID</u>	<u>PipetteID</u>	Supervised By Jignesh Parikh
	3720	Turbidity Calibration std, 1NTU	<u>WP114719</u>	09/10/2025	09/11/2025	lwona Zarych	None		09/11/2025

Recipe				Expiration	<u>Prepared</u>			Supervised By
<u>ID</u>	<u>NAME</u>	NO.	Prep Date	<u>Date</u>	<u>By</u>	<u>ScaleID</u>	<u>PipetteID</u>	Jignesh Parikh
1998	TURBIDITY LOD STD, 0.5NTU	WP114720	09/10/2025	09/11/2025	Iwona Zarych	None	Glass	Ü
							Pipette-A	09/11/2025

FROM 5.00000ml of W3116 + 95.00000ml of W3112 = Final Quantity: 100.000 ml





Wet Chemistry STANDARD PREPARATION LOG

Recipe <u>ID</u> 3739	NAME Turbidity LOQ std, 1.0NTU	NO. WP114721	Prep Date 09/10/2025	Expiration Date 09/11/2025	Prepared By Iwona Zarych	<u>ScaleID</u> None	PipetteID Glass Pipette-A	Supervised By Jignesh Parikh 09/11/2025
FROM	10.00000ml of W3116 + 90.00000ml	of W3112 =	Final Quantii	ty: 100.000 ml				



CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	J2177-1 / Hydrazine sulfate, 500 gms	BCCK9980	10/13/2028	01/26/2024 / Iwona	01/26/2024 / Iwona	W3078
Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	AA36462-36 / hexamethylenetetramine	M02K021	01/02/2027	02/26/2024 / Iwona	02/26/2024 / Iwona	W3081
Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	DIW / DI Water	Daily Lab-Certified	07/03/2029	07/03/2024 / lwona	07/03/2024 / Iwona	W3112
Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
HACH	2659949 / 10 NTU Standard 500 ml	A4151	05/30/2026	07/12/2024 / Iwona	07/12/2024 / Iwona	W3116
Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date /	Chemtech Lot #
HACH	14268-10 / Chlorine Std, Pk of 16	A4144	01/31/2026	07/25/2024 / lwona	07/25/2024 / Iwona	W3130
Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date /	Chemtech Lot #
HACH	14268-10 / Chlorine Std, Pk of 16	A4166	02/28/2026	07/25/2024 / Iwona	07/25/2024 / Iwona	W3131



CHEMICAL RECEIPT LOG BOOK

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

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

NH2NH2 . H2SO4

Hydrazine sulfate salt - ACS reagent, ≥99.0%

Product Number:

216046

BCCK9980

Batch Number: Brand:

SIAL

CAS Number:

Formula:

10034-93-2

Formula Weight:

H4N2 · H2SO4

Quality Release Date:

130,12 g/mol 13 OCT 2023

Test	Specification	Result
Appearance (Color)	White	White
Appearance (Form)	Powder or Crystals or Chunk(s)	Crystals
Redox Titration With Iodine	≥ 99.0 %	99.4 %
Residue on Ignition	< 0.05 %	0.01 %
Infrared Spectrum	Conforms to Structure	Conforms
Meets ACS Requirements	Corresponds to Requirements	Corresponds
ACS Specifications Heavy Metals <= 0.002 % (as Pb), Insoluble Matter <= 0.005 % (C= 6.67%,	Corresponds to Requirements	Corresponds
H2O)		
Iron (Fe)	10 mg/kg	< 10 mg/kg
Chloride (CI)	≤ 50 mg/kg	< 50 mg/kg

Dr. R. Serry

Dr.Reinhold Schwenninger Quality Assurance Buchs, Switzerland CH



Certificate of Analysis

W3081 Recieved on 02/26/2024 by IZ

Product No.: 036462

Product: Hexamethylenetetramine, ACS, 99+%

Appearance

Lot No.: M02K021

	rippodianoo	***************************************	
Test		Limits	Results
Assay		99.0 % min	100.7 %
Loss on	drying	2.0 % max	0.2 %
Heavy m	etals (as Pb)	0.001 % max	< 0.001 %

Residue after ignition 0.1 % max

White solid

< 0.1 %

Retest Date: January 2, 2027

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Certificate of Analysis List For request number 2018129

Catalog	Lot	Related	d Related	
Number	Number	Catalog	Lot	
Entered	Entered	Number	Code	Description
2659949	4151	N/A	N/A	StablCal sup TS sup Standard, 10 NTU

Total Enclosures: 1

HACH COMPANY

LOT NUMBER: A4151



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

Certificate of Analysis

Page 1

DATE OF ANALYSIS:

COMMODITY: StablCal|sup|TS|sup Standard, 10 NTU

COMMODITY NUMBER: 2659949 MANUFACTURE DATE:

6/7/2024

6/4/2024

TEST SPECIFICATIONS RESULTS

9.5 to 10.5 NTU Turbidity 9.99 NTU

The expiration date is May 2026

Formazin and StablCal® solutions provided by Hach are not NIST traceable because the NIST does not carry turbidity standards. However, the use of Formazin and StablCal® as used in Hach method 8195 are accepted by the EPA as a primary standard to be used in the calibration of turbidity instruments.

Certified by

Scott Als Analytical Services Chemist



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



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