

Prep Standard - Chemical Standard Summary

Order ID : Q1172

Test : Turbidity

Prepbatch ID :

Sequence ID/Qc Batch ID: LB134679,LB134680,

Standard ID :

WP111542,WP111543,WP111544,WP111912,WP111913,WP111914,WP111915,WP111916,WP111917,WP111918,

Chemical ID : W3078,W3081,W3112,W3116,



Recipe ID 1167	NAME hydrazine sulfate solution 1	<u>NO.</u> WP111542	Prep Date 01/22/2025	Expiration Date 02/22/2025	<u>Prepared</u> <u>By</u> Niha Farheen Shaik	ScaleID WETCHEM_S CALE_5 (WC	<u>PipetteID</u> None	Supervised By Iwona Zarych 01/28/2025
<u>FROM</u>	1.00000gram of W3078 + 99.00000n	nl of W3112	= Final Quan	tity: 100.000 n	nl	SC-5)		
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I	Recipe ID	NAME	<u>NO.</u>	Prep Date	Expiration Date	<u>Prepared</u> <u>Βγ</u>	<u>ScaleID</u>	<u>PipetteID</u>	Supervised By
	<u></u> 1843			01/22/2025		Niha Farheen Shaik			Iwona Zarych 01/28/2025
-	FROM	10.00000gram of W3081 + 90.00000	ml of W3112	2 = Final Qua	ntity: 100.000		SC-5)		01/20/2025



Recipe ID 1102	NAME Formazin turbidity 400 NTU suspension	<u>NO.</u> WP111544	Prep Date 01/22/2025		<u>Prepared</u> <u>By</u> Niha Farheen Shaik	ScaleID WETCHEM_S CALE_5 (WC	<u>PipetteID</u> None	Supervised By Iwona Zarych 01/28/2025
FROM	90.00000ml of W3112 + 5.00000ml o	I f WP111542	2 + 5.00000ml	of WP111543		SC-5)		5 1120/2020

<u>Recipe</u>				Expiration	Prepared			Supervised By
<u>ID</u>	NAME	<u>NO.</u>	Prep Date	<u>Date</u>	<u>By</u>	<u>ScaleID</u>	PipetteID	Iwona Zarych
3718	Turbidity Calibration std, 40NTU	<u>WP111912</u>	02/13/2025	02/14/2025	Niha Farheen Shaik	None	Glass Pipette-A	02/14/2025
<u>FROM</u>	90.00000ml of W3112 + 10.00000ml	of WP11154	4 = Final Qu	antity: 100.000	ml			



Recipe ID 3713	NAME Turbidity Calibration std, 0NTU	<u>NO.</u> WP111913	Prep Date 02/13/2025	Expiration Date 02/14/2025	<u>Prepared</u> <u>By</u> Niha Farheen Shaik	<u>ScaleID</u> None	<u>PipetteID</u> None	Supervised By Iwona Zarych 02/14/2025
FROM	100.00000ml of W3112 = Final Quar	ntity: 100.00	0 ml		·			

<u>Recipe</u> <u>ID</u>	NAME	<u>NO.</u>	Prep Date	Expiration Date	<u>Prepared</u> <u>By</u>	<u>ScaleID</u>	<u>PipetteID</u>	Supervised By
<u>10</u> 3720								Iwona Zarych
3720	Turbidity Calibration std, 1NTU	<u>vvP111914</u>	02/13/2025	02/14/2025	Niha Farheen Shaik	None	Glass Pipette-A	02/14/2025
FROM	97.50000ml of W3112 + 2.50000ml o	f WP111912	2 = Final Qua	ntity: 100.000	ml			



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Wet Chemistry STANDARD PREPARATION LOG

Recipe ID 3722	NAME	<u>NO.</u> WP111915	Prep Date 02/13/2025		<u>Prepared</u> <u>By</u> Niha Farheen Shaik	<u>ScaleID</u> None	PipetteID Glass Pipette-A	Supervised By Iwona Zarych 02/14/2025
FROM	87.50000ml of W3112 + 12.50000ml	of WP11191	2 = Final Qu	antity: 100.000	ml			

Recipe				Expiration	Prepared			Supervised By
<u>ID</u>	NAME	<u>NO.</u>	Prep Date	<u>Date</u>	<u>By</u>	<u>ScaleID</u>	PipettelD	Iwona Zarych
3807	Turbidity Calibration - CCV std, 10 NTU	<u>WP111916</u>	02/13/2025	02/14/2025	Niha Farheen Shaik	None	Glass Pipette-A	02/14/2025
FROM	97.50000ml of W3112 + 2.50000ml o	f WP111544	= Final Qua	ntity: 100.000	ml			

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Recipe ID 3714	NAME	<u>NO.</u> WP111917	Prep Date 02/13/2025		<u>Prepared</u> <u>By</u> Niha Farheen Shaik	<u>ScaleID</u> None	PipetteID Glass Pipette-A	Supervised By Iwona Zarych 02/14/2025
FROM	95.00000ml of W3112 + 5.00000ml o	f WP111544	⊧ = Final Qua	ntity: 100.000	ml			

<u>Recipe</u> <u>ID</u> 1998	<u>NAME</u> TURBIDITY LOD STD, 0.5NTU	<u>NO.</u> WP111918	Prep Date 02/13/2025		<u>Prepared</u> <u>By</u> Niha Farheen	<u>ScaleID</u> None	<u>PipetteID</u> Glass	Supervised By Iwona Zarych
1000			02/10/2020	02/14/2020	Shaik	None	Pipette-A	02/14/2025
FROM	5.00000ml of W3116 + 95.00000ml o	f W3112 =	Final Quantity	r: 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 / Iwona	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

W 3078 Lec. on 1/26/24 by 12

H₂SO₄

Sigma-Aldrich

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

Hydrazine sulfate salt - ACS reagent, ≥99.0%

Product Name:

Product Number:	216046	NH ₂ NH ₂
Batch Number:	BCCK9980	
Brand:	SIAL	
CAS Number:	10034-93-2	
Formula:	H4N2 · H2SO4	
Formula Weight:	130,12 g/mol	
Quality Release Date:	13 OCT 2023	

	Specification	Result
Appearance (Color)	White	White
Appearance (Form)	Powder or Crystals or Chunk(s)	Crystals
Redox Titration	> 99.0 %	99.4 %
With lodine	-	
Residue on Ignition	<u><</u> 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),	Corresponds to Requirements	Corresponds
Insoluble Matter < = 0.005 % (C= 6.67%, H2O)		
ron (Fe)	<u><</u> 10 mg/kg	< 10 mg/kg
Chloride (CI)	< 50 mg/kg	< 50 mg/kg

Dr.Reinhold Schwenninger Quality Assurance Buchs,Switzerland CH

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



W3081 Recieved on 02/26/2024 by IZ

Product No.:		036462			
Product:		Hexamethylenetetramine, ACS, 99+%			
Lot No.:		M02K021			
		Appearance White solid		id	
	Test		Limits	Results	
	Assa	ау	99.0 % min	100.7 %	
	Loss on drying Heavy metals (as Pb)		2.0 % max	0.2 %	
			0.001 % max	< 0.001 %	
	Residue after ignition		0.1 % max	< 0.1 %	

Retest Date: January 2, 2027

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Certificate of Analysis List For request number 2018129

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

Total Enclosures: 1



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

Certificate of Analysis

Page 1

COMMODITY:StablCal sup TS sup	Standard, 10 NTU	
COMMODITY NUMBER: 2659949	MANUFACTURE DATE:	DATE OF ANALYSIS:
LOT NUMBER: A4151	6/4/2024	6/7/2024

TESTSPECIFICATIONSRESULTSTurbidity9.5 to 10.5 NTU9.99 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.

Scott als

Certified by ____

Scott Als Analytical Services Chemist