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

# Prep Standard - Chemical Standard Summary

**Order ID :** P4368

**Test :** Turbidity

**Prepbatch ID :**

**Sequence ID/Qc Batch ID:** LB133055,

**Standard ID :**
WP110337,WP110338,WP110339,WP110340,WP110341,WP110342,WP110343,WP110344,WP110346,WP110347,WP110348,

**Chemical ID :**
W3078,W3081,W3112,W3116,

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Fax : 908 789 8922

# Wet Chemistry STANDARD PREPARATION LOG

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 1167 | hydrazine sulfate solution 1 | WP110337 | 10/21/2024 | 11/21/2024 | Iwona Zarych | WETCHEM_SCALE_5 (WCSC-5) | None | Jignesh Parikh 10/22/2024 |

**FROM** 1.00000gram of W3078 + 99.00000ml of W3112 = Final Quantity: 100.000 ml

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 1843 | HEXAMETHYLENETETRAMINE SOLUTION 1 | WP110338 | 10/21/2024 | 11/21/2024 | Iwona Zarych | WETCHEM_SCALE_5 (WCSC-5) | None | Jignesh Parikh 10/22/2024 |

**FROM** 10.00000gram of W3081 + 90.00000ml 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 |
|---|---|---|---|---|---|---|---|---|
| 1102 | Formazin turbidity 400 NTU suspension | WP110339 | 10/21/2024 | 11/21/2024 | Iwona Zarych | None | Glass Pipette-A | Jignesh Parikh 10/22/2024 |

**FROM** 90.00000ml of W3112 + 5.00000ml of WP110337 + 5.00000ml of WP110338 = Final Quantity: 100.000 ml

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 3718 | Turbidity Calibration std, 40NTU | WP110340 | 10/22/2024 | 10/23/2024 | Iwona Zarych | None | Glass Pipette-A | Jignesh Parikh 10/22/2024 |

**FROM** 90.00000ml of W3112 + 10.00000ml of WP110339 = 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 |
|---|---|---|---|---|---|---|---|---|
| 3714 | Turbidity Calibration std, 20NTU | WP110341 | 10/22/2024 | 10/23/2024 | Iwona Zarych | None | Glass Pipette-A | Jignesh Parikh 10/22/2024 |

**FROM** 95.00000ml of W3112 + 5.00000ml of WP110339 = Final Quantity: 100.000 ml

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 3807 | Turbidity Calibration - CCV std, 10 NTU | WP110342 | 10/22/2024 | 10/23/2024 | Iwona Zarych | None | Glass Pipette-A | Jignesh Parikh 10/22/2024 |

**FROM** 97.50000ml of W3112 + 2.50000ml of WP110339 = 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 |
|---|---|---|---|---|---|---|---|---|
| 3722 | Turbidity Calibration std, 5NTU | WP110343 | 10/22/2024 | 10/23/2024 | Iwona Zarych | None | Glass Pipette-A | Jignesh Parikh 10/22/2024 |

**FROM** 87.50000ml of W3112 + 12.50000ml of WP110340 = Final Quantity: 100.000 ml

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 3720 | Turbidity Calibration std, 1NTU | WP110344 | 10/22/2024 | 10/23/2024 | Iwona Zarych | None | Glass Pipette-A | Jignesh Parikh 10/22/2024 |

**FROM** 97.50000ml of W3112 + 2.50000ml of WP110340 = 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 |
|---|---|---|---|---|---|---|---|---|
| 3713 | Turbidity Calibration std, 0NTU | WP110346 | 10/22/2024 | 10/23/2024 | Iwona Zarych | None | None | Jignesh Parikh 10/22/2024 |

**FROM** 100.00000ml of W3112 = Final Quantity: 100.000 ml

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 3739 | Turbidity LOQ std, 1.0NTU | WP110347 | 10/22/2024 | 10/23/2024 | Iwona Zarych | None | WETCHEM_PIPETTE_3 (WC) | Jignesh Parikh 10/22/2024 |

**FROM** 10.00000ml of W3116 + 90.00000ml 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 |
|---|---|---|---|---|---|---|---|---|
| 1998 | TURBIDITY LOD STD, 0.5NTU | WP110348 | 10/22/2024 | 10/23/2024 | Iwona Zarych | None | WETCHEM_PIPETTE_3 (WC) | Jignesh Parikh 10/22/2024 |

**FROM** 5.00000ml of W3116 + 95.00000ml of W3112 = Final Quantity: 100.000 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 # |
|---|---|---|---|---|---|---|
| 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 Rec. on 1/26/24 by 12

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

Product Name:
Hydrazine sulfate salt - ACS reagent, ≥99.0%

$NH_2NH_2 \cdot H_2SO_4$

| | |
|---|---|
| **Product Number:** | **216046** |
| **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 |

| Test | Specification | Result |
|---|---|---|
| Appearance (Color) | White | White |
| Appearance (Form) | Powder or Crystals or Chunk(s) | Crystals |
| Redox Titration<br>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<br>Heavy Metals < = 0.002 % (as Pb),<br>Insoluble Matter < = 0.005 % (C= 6.67%, H2O) | Corresponds to Requirements | Corresponds |
| Iron (Fe) | ≤ 10 mg/kg | < 10 mg/kg |
| Chloride (Cl) | ≤ 50 mg/kg | < 50 mg/kg |

Dr.Reinhold Schwenninger
Quality Assurance
Buchs,Switzerland CH

ThermoFisher SCIENTIFIC

# Certificate of Analysis

W3081 Recieved on 02/26/2024 by IZ

Product No.: 036462

Product: Hexamethylenetetramine, ACS, 99+%

Lot No.: M02K021

Appearance White solid

| Test | Limits | Results |
|---|---|---|
| Assay | 99.0 % min | 100.7 % |
| Loss on drying | 2.0 % max | 0.2 % |
| Heavy metals (as Pb) | 0.001 % max | < 0.001 % |
| Residue after ignition | 0.1 % max | < 0.1 % |

Retest Date: January 2, 2027

# *Certificate of Analysis List*

For request number 2018129

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

Total Enclosures: 1

**HACH COMPANY**

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

An ISO 9001 Certified Company

# *Certificate of Analysis*



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

| *TEST* | *SPECIFICATIONS* | *RESULTS* |
|---|---|---|
| Turbidity | 9.5 to 10.5 NTU | 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

Scott Als
Analytical Services Chemist