

Prep Standard - Chemical Standard Summary

Order ID : Q2552

Test : Turbidity

Prepbatch ID :

Sequence ID/Qc Batch ID: LB136603, LB136604,

Standard ID :

WP114061, WP114062, WP114063, WP114064, WP114065, WP114066, WP114067, WP114068, WP114069, WP114070,

Chemical ID :

W3078, W3081, W3112, W3116,



| <u>Recipe ID</u> | <u>NAME</u> | <u>NO.</u> | <u>Prep Date</u> | <u>Expiration Date</u> | <u>Prepared By</u> | <u>ScaleID</u> | <u>PipetteID</u> | <u>Supervised By</u> |
|--|------------------------------|--------------------------|------------------|------------------------|--------------------|----------------------------------|------------------|----------------------------------|
| 1167 | hydrazine sulfate solution 1 | WP114061 | 07/23/2025 | 08/23/2025 | Iwona Zarych | WETCHEM_S CALE_5 (WC SC-5) | None | Jignesh Parikh 07/28/2025 |
| <u>FROM</u> 1.00000gram of W3078 + 99.00000ml of W3112 = Final Quantity: 100.000 ml | | | | | | | | |

| <u>Recipe ID</u> | <u>NAME</u> | <u>NO.</u> | <u>Prep Date</u> | <u>Expiration Date</u> | <u>Prepared By</u> | <u>ScaleID</u> | <u>PipetteID</u> | <u>Supervised By</u> |
|------------------|--|--------------------------|------------------|------------------------|--------------------|----------------------------------|------------------|----------------------------------|
| 1843 | HEXAMETHYLENETETRAMINE SOLUTION 1 | WP114062 | 07/23/2025 | 08/23/2025 | Iwona Zarych | WETCHEM_S CALE_5 (WC SC-5) | None | Jignesh Parikh 07/28/2025 |
| <u>FROM</u> | 10.00000gram of W3081 + 90.00000ml of W3112 = Final Quantity: 100.000 ml | | | | | | | |

Wet Chemistry STANDARD PREPARATION LOG

| <u>Recipe ID</u> | <u>NAME</u> | <u>NO.</u> | <u>Prep Date</u> | <u>Expiration Date</u> | <u>Prepared By</u> | <u>ScaleID</u> | <u>PipetteID</u> | <u>Supervised By</u> |
|------------------|---------------------------------------|--------------------------|------------------|------------------------|--------------------|----------------|------------------|------------------------------|
| 1102 | Formazin turbidity 400 NTU suspension | WP114063 | 07/23/2025 | 07/24/2025 | Iwona Zarych | None | Glass Pipette-A | Jignesh Parikh 07/28/2025 |

FROM 90.00000ml of W3112 + 5.00000ml of WP114061 + 5.00000ml of WP114062 = Final Quantity: 100.000 ml

| <u>Recipe ID</u> | <u>NAME</u> | <u>NO.</u> | <u>Prep Date</u> | <u>Expiration Date</u> | <u>Prepared By</u> | <u>ScaleID</u> | <u>PipetteID</u> | <u>Supervised By</u> |
|------------------|----------------------------------|--------------------------|------------------|------------------------|--------------------|----------------|------------------|------------------------------|
| 3718 | Turbidity Calibration std, 40NTU | WP114064 | 07/24/2025 | 07/24/2025 | Iwona Zarych | None | Glass Pipette-A | Jignesh Parikh 07/28/2025 |

FROM 90.00000ml of W3112 + 10.00000ml of WP114063 = Final Quantity: 100.000 ml

Wet Chemistry STANDARD PREPARATION LOG

| <u>Recipe ID</u> | <u>NAME</u> | <u>NO.</u> | <u>Prep Date</u> | <u>Expiration Date</u> | <u>Prepared By</u> | <u>ScaleID</u> | <u>PipetteID</u> | <u>Supervised By</u> |
|------------------|----------------------------------|--------------------------|------------------|------------------------|--------------------|----------------|--------------------|----------------------------------|
| 3714 | Turbidity Calibration std, 20NTU | WP114065 | 07/24/2025 | 07/25/2025 | Iwona Zarych | None | Glass Pipette-A | Jignesh Parikh 07/28/2025 |

FROM 95.00000ml of W3112 + 5.00000ml of WP114063 = Final Quantity: 100.000 ml

| <u>Recipe ID</u> | <u>NAME</u> | <u>NO.</u> | <u>Prep Date</u> | <u>Expiration Date</u> | <u>Prepared By</u> | <u>ScaleID</u> | <u>PipetteID</u> | <u>Supervised By</u> |
|------------------|---|--------------------------|------------------|------------------------|--------------------|----------------|--------------------|----------------------------------|
| 3807 | Turbidity Calibration - CCV std, 10 NTU | WP114066 | 07/24/2025 | 07/25/2025 | Iwona Zarych | None | Glass Pipette-A | Jignesh Parikh 07/28/2025 |

FROM 97.50000ml of W3112 + 2.50000ml of WP114063 = Final Quantity: 100.000 ml

Wet Chemistry STANDARD PREPARATION LOG

| <u>Recipe ID</u> | <u>NAME</u> | <u>NO.</u> | <u>Prep Date</u> | <u>Expiration Date</u> | <u>Prepared By</u> | <u>ScaleID</u> | <u>PipetteID</u> | <u>Supervised By</u> |
|------------------|---------------------------------|--------------------------|------------------|------------------------|--------------------|----------------|--------------------|----------------------------------|
| 3722 | Turbidity Calibration std, 5NTU | WP114067 | 07/24/2025 | 07/25/2025 | Iwona Zarych | None | Glass Pipette-A | Jignesh Parikh 07/28/2025 |

FROM 87.50000ml of W3112 + 12.50000ml of WP114064 = Final Quantity: 100.000 ml

| <u>Recipe ID</u> | <u>NAME</u> | <u>NO.</u> | <u>Prep Date</u> | <u>Expiration Date</u> | <u>Prepared By</u> | <u>ScaleID</u> | <u>PipetteID</u> | <u>Supervised By</u> |
|------------------|---------------------------------|--------------------------|------------------|------------------------|--------------------|----------------|--------------------|----------------------------------|
| 3720 | Turbidity Calibration std, 1NTU | WP114068 | 07/24/2025 | 07/25/2025 | Iwona Zarych | None | Glass Pipette-A | Jignesh Parikh 07/28/2025 |

FROM 97.50000ml of W3112 + 2.50000ml of WP114064 = Final Quantity: 100.000 ml

Wet Chemistry STANDARD PREPARATION LOG

| <u>Recipe ID</u> | <u>NAME</u> | <u>NO.</u> | <u>Prep Date</u> | <u>Expiration Date</u> | <u>Prepared By</u> | <u>ScaleID</u> | <u>PipetteID</u> | <u>Supervised By</u> |
|------------------|-----------------------------------|--------------------------|------------------|------------------------|--------------------|----------------|--------------------|----------------------------------|
| 3715 | Turbidity Calibration std, 0.5NTU | WP114069 | 07/24/2025 | 07/25/2025 | Iwona Zarych | None | Glass Pipette-A | Jignesh Parikh 07/28/2025 |

FROM 97.50000ml of W3112 + 2.50000ml of WP114065 = Final Quantity: 100.000 ml

| <u>Recipe ID</u> | <u>NAME</u> | <u>NO.</u> | <u>Prep Date</u> | <u>Expiration Date</u> | <u>Prepared By</u> | <u>ScaleID</u> | <u>PipetteID</u> | <u>Supervised By</u> |
|------------------|---------------------------------|--------------------------|------------------|------------------------|--------------------|----------------|------------------|----------------------------------|
| 3713 | Turbidity Calibration std, 0NTU | WP114070 | 07/24/2025 | 07/25/2025 | Iwona Zarych | None | None | Jignesh Parikh 07/28/2025 |

FROM 100.00000ml of W3112 = Final Quantity: 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 / lwona | 01/26/2024 / lwona | 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 / lwona | 02/26/2024 / lwona | 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 / lwona | 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 / lwona | 07/12/2024 / lwona | W3116 |

3050 Spruce Street, Saint Louis, MO 63103, USA

Website: www.sigmaaldrich.comEmail USA: techserv@sial.comOutside USA: eurtechserv@sial.com

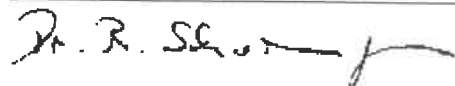
Product Name:

Certificate of AnalysisHydrazine sulfate salt - ACS reagent, $\geq 99.0\%$

Product Number: 216046
Batch Number: BCKK9980
Brand: SIAL
CAS Number: 10034-93-2
Formula: $\text{H}_4\text{N}_2 \cdot \text{H}_2\text{SO}_4$
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 With Iodine | $\geq 99.0 \%$ | 99.4 % |
| Residue on Ignition | $\leq 0.05 \%$ | 0.01 % |
| Infrared Spectrum | Conforms to Structure | Conforms |
| Meets ACS Requirements | Corresponds to Requirements | Corresponds |
| ACS Specifications | Corresponds to Requirements | Corresponds |
| Heavy Metals $\leq 0.002 \%$ (as Pb), Insoluble Matter $\leq 0.005 \%$ (C= 6.67%, H ₂ O) | | |
| Iron (Fe) | $\leq 10 \text{ mg/kg}$ | $< 10 \text{ mg/kg}$ |
| Chloride (Cl) | $\leq 50 \text{ mg/kg}$ | $< 50 \text{ mg/kg}$ |



Dr. Reinhold Schwenninger
Quality Assurance
Buchs, Switzerland CH

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

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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

***Certificate of Analysis***

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COMMODITY: **StablCal|sup|TS|sup Standard, 10 NTU**COMMODITY NUMBER: **2659949**

MANUFACTURE DATE:

LOT NUMBER: **A4151****6/4/2024**

DATE OF ANALYSIS:

6/7/2024

| <i>TEST</i> | <i>SPECIFICATIONS</i> | <i>RESULTS</i> |
|--------------------|------------------------------|-----------------------|
| 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
Analytical Services Chemist