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Certificate of Analysis

Sulfuric Acid, 0.0200 Normal (N/50)

Lot Number: 4402H34 Product Number: 8200

Manufacture Date: FEB 15, 2024

Expiration Date: JAN 2027

| Name | CAS# | Grade |
|---------------|-----------|-----------------|
| Water | 7732-18-5 | ACS/ASTM/USP/EP |
| Sulfuric Acid | 7664-93-9 | ACS |

| Test | Specification | Result | NIST SRM# |
|---|---------------------------|--|-----------|
| Appearance | Colorless liquid | Passed | |
| Assay (vs. | 0.01998-0.02002 N at 20°C | $0.01998~\mathrm{N}$ at $20^{\circ}\mathrm{C}$ | 723 |
| Tris(hydroxymethyl)aminomethane/Methyl Red) | | | |

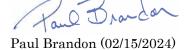
| Specification | Reference |
|--|---------------------|
| Sulfuric Acid, Standard (0.02 N) | ASTM (D 1067 A) |
| Sulfuric Acid Solution, Standard (0.02 N, 1 mL = 0.28 mg ammonia nitrogen) | ASTM (D 3590 A) |
| Sulfuric Acid, Standard (0.02 N) | ASTM (D 1067 B) |
| Sulfuric Acid, Standard (0.02 N) | ASTM (D 1067 C) |
| Standard sulfuric acid, 0.02 N | APHA (2320 B) |
| Sulfuric Acid, 0.02 N | APHA (3500-Al B) |
| Standard Sulfuric Acid Titrant, 0.02 N | APHA (4500-NH3 C) |
| Standard Sulfuric Acid, 0.02 N | EPA (310.1) |
| Dilute Sulfuric Acid (0.01 M) | EPA (SW-846) (9212) |
| Dilute Sulfuric Acid (0.01 M) | EPA (SW-846) (9211) |
| Standard Sulfuric Acid, 0.02 N | EPA (305.1) |
| Sulfuric Acid, Standard Solution (0.02 N) | EPA (350.2) |
| Sulfuric Acid, Standard Solution (0.02 N) | EPA (351.3) |

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) |
|-------------|---------------------|---------------------------------|
| 8200-1 | 4 L natural poly | 36 months |
| 8200-16 | 500 mL natural poly | 36 months |
| 8200-2.5 | 10 L Cubitainer® | 36 months |
| 8200-32 | 1 L natural poly | 36 months |
| 8200-5 | 20 L Cubitainer® | 36 months |

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

Version: 1.3 Lot Number: 4402H34 Product Number: 8200 Page 1 of 2



Production Manager

This document is designed to comply with ISO Guide 31 "Reference Materials $^{\rm --}$ Contents of Certificates and Labels."

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