

# Certificate of Analysis

## Ammonia Nitrogen Standard, 100 ppm N (122 ppm NH<sub>3</sub>)

Lot Number: 2401J40

Product Number: 5453

Manufacture Date: JAN 24, 2024

Expiration Date: JAN 2025

| Name              | CAS#       | Grade           |
|-------------------|------------|-----------------|
| Water             | 7732-18-5  | ACS/ASTM/USP/EP |
| Ammonium Chloride | 12125-02-9 | High Purity     |

| Test         | Specification    | Result    |
|--------------|------------------|-----------|
| Appearance   | Colorless liquid | Passed    |
| Nitrogen (N) | 99.5-100.5 ppm   | 100.0 ppm |

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) |
|-------------|---------------------|---------------------------------|
| 5453-16     | 500 mL natural poly | 12 months                       |
| 5453-4      | 120 mL natural poly | 12 months                       |

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

Jose Pena (01/24/2024)

Operations Manager

This document is designed to comply with ISO Guide 31 "Reference Materials -- Contents of Certificates and Labels."

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