

Certificate of Analysis

Nitrate Nitrogen Standard, 100 ppm N (442.7 ppm NO₃)

Lot Number: 4404M39

Product Number: 5457

Manufacture Date: APR 24, 2024

Expiration Date: APR 2025

The certified value reported is the prepared value based upon the method of preparation of the material. Use purified water to make dilutions of this standard.

| Name | CAS# | Grade |
|-------------------|-----------|-----------------|
| Water | 7732-18-5 | ACS/ASTM/USP/EP |
| Chloroform | 67-66-3 | |
| Potassium Nitrate | 7757-79-1 | High Purity |

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

| Specification | Reference |
|--|--------------------|
| Stock Nitrate Solution | APHA (419 D) |
| Stock Nitrate Solution | APHA (4500-NO3- B) |
| Stock Nitrate Solution | APHA (4500-NO3- D) |
| Stock Nitrate Solution | APHA (4500-NO3- E) |
| Stock Nitrate Solution | APHA (4500-NO3- H) |
| Stock Nitrate Solution | APHA (4500-NO3- F) |
| Potassium Nitrate Stock Solution, 1.0 mL = 0.1 mg NO ₃ -N | EPA (352.1) |
| Stock Nitrate Solution (100 mg/L NO ₃ -N) | EPA (353.1) |

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) |
|-------------|---------------------|---------------------------------|
| 5457-16 | 500 mL natural poly | 12 months |

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



Paul Brandon (04/24/2024)

Production Manager

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