

Certificate of Analysis

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

Lot Number: 2312F07

Product Number: 5457

Manufacture Date: DEC 19, 2023

Expiration Date: DEC 2024

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)
5457-4	120 mL natural poly	12 months

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



Jose Pena (12/19/2023)

Operations Manager

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

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