

Certificate of Analysis

Phosphate Standard, 1000 ppm PO₄³⁻ (326 ppm P)

Lot Number: 2402H44

Product Number: 5839

Manufacture Date: FEB 28, 2024

Expiration Date: AUG 2025

The certified value reported is the prepared value based upon the method of preparation of the material. The uncertainty in the prepared value is based upon the volumetric method of preparation.

Name	CAS#	Grade
Water	7732-18-5	ACS/ASTM/USP/EP
Potassium Dihydrogen Phosphate	7778-77-0	High Purity

Test	Specification	Result
Appearance	Colorless liquid	Passed
Phosphate (PO ₄)	995-1005 ppm	1000 ppm

Specification	Reference
Phosphate Solution stock (1.00 mL = 1.00 mg PO ₄)	ASTM (D 5542)
Standard Phosphate Solution, 1000 mg/L	APHA (4110 B)
Phosphate Stock Solution (1.00 mL = 1.00 mg PO ₄ ³⁻)	EPA (SW-846) (9056)
Phosphate Solution, Stock (1.00 mL = 1.00 mg PO ₄)	ASTM (D 5996)

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)
5839-16	500 mL natural poly	18 months
5839-4	120 mL natural poly	18 months

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



Jose Pena (02/28/2024)

Operations Manager

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

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