

Certificate of Analysis

Hardness Titrating Solution, 1 mL = 1 mg CaCO₃

Lot Number: 1404H20

Product Number: 3479

Manufacture Date: APR 16, 2024

Expiration Date: APR 2025

Name	CAS#	Grade
Water	7732-18-5	ACS/ASTM/USP/EP
Ethylenediaminetetraacetic Acid (EDTA), Disodium Salt, Dihydrate	6381-92-6	ACS
Sodium Hydroxide	1310-73-2	ACS
Magnesium Chloride Hexahydrate	7791-18-6	ACS

Test	Specification	Result	NIST SRM#
Appearance	Colorless liquid	Passed	
Assay (vs. Calcium Carbonate)	0.00999-0.01001 Molar	0.01000 Molar	915

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)
3479-1	4 L natural poly	12 months

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



Heidi J Green (04/16/2024)

Operations Manager

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

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