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Certificate of Analysis

Calcium Chloride Standard, 1000 ppm CaCO₃ (400 ppm Ca), 0.0100 M Ca²⁺, 0.0200 N Ca²⁺

Lot Number: 4401L77 Product Number: 1780

Manufacture Date: JAN 18, 2024

Expiration Date: JUL 2025

Name	CAS#	Grade	
Water	7732-18-5	ACS/ASTM/USP/EP	
Calcium Carbonate	471-34-1	ACS Chelometric	
Hydrochloric Acid	7647-01-0	ACS	

Test	Specification	Result	NIST SRM#
Appearance	Colorless liquid	Passed	
Assay (vs. EDTA/Eriochrome Black T)	0.00999-0.01001 Molar	0.01001 Molar	915

Specification	Reference
Calcium Solution, Standard (1.00 mL = 0.400 mg calcium)	ASTM (D 511 A)
Standard calcium solution	APHA (2340 C)
Standard calcium solution, 0.01 M	TAPPI (T 247 cm-83)
Standard Calcium Solution, 0.02 N	EPA (215.2)
Stock Solution, 1.0 mL = 1.0 mg CaCO3	EPA (130.1)
Standard Calcium Solution, 0.02 N	EPA (130.2)

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)
1780-16	500 mL natural poly	18 months
1780-32	1 L natural poly	18 months

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

Paul Brandon (01/18/2024)

Production Manager

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

This test report shall not be reproduced, except in full, without the written approval of Ricca Chemical Company.

Version: 1.3 Lot Number: 4401L77 Product Number: 1780 Page 1 of 1