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Certificate of Analysis

Calcium AA Standard, 1000 ppm Ca in 3% HCl

Lot Number: 4403F28 Product Number: ACA1KH

Manufacture Date: MAR 06, 2024

Expiration Date: FEB 2026

The certified value for this product is confirmed in independent testing by a second qualified chemist.

The final solution concentration is confirmed by AA, ICP, or ICP-MS, and is traceable to NIST Standard Reference Material 3109a.

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

| Test | Specification | Result | NIST SRM# |
|-------------------------------------|------------------|-------------|-----------|
| Appearance | Colorless liquid | Passed | |
| Assay (vs. EDTA/Eriochrome Black T) | 995-1005 ppm Ca | 1000 ppm Ca | 915 |

| Specification | Reference |
|--|----------------------------|
| Calcium AA Standard, 1 mL = 1 mg Ca (1,000 ppr | n Ca) CaCO3 in EPA (215.1) |

Calcium AA Standard, 1 mL = 1 mg Ca (1,000 ppm Ca) CaCO3 in EPA (215.1 3% HCl

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) |
|-------------|---------------------|---------------------------------|
| ACA1KH-100 | 100 mL natural LDPE | 24 months |

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

Paul Brandon (03/06/2024)

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.

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