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Certificate of Analysis

Calcium AA Standard, 1,000 ppm in 3% HNO₃ - Private Labeled for Agilent

Lot Number: 4203377

Product Number: S203000A

Expiration Date: FEB 2014

Manufacture Date: 3/13/2012

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

Contains:

Name	CAS#	Grade
Calcium Carbonate	471-34-1	High Purity
Nitric Acid	7697-37-2	Trace Metals
Water, Deionized	7732-18-5	Trace Metals Analyzed

Test Name	Assay Method	Specification	Result
Appearance	Clarity, Color, Odor	Clear, colorless, odorless	Passed Test
Assay at 20 °C (traceable to NIST SRM 915)	Titrimetric vs. EDTA (Xylenol Orange Indicator)	1,000 ± 5 ppm Ca	997.1 ppm Ca

Specification	Reference	Method Number
Calcium AA, 1000 ppm in HNO ₃	EPA	215.1

This standard is guaranteed to be stable and accurate provided the product is kept tightly capped and stored under normal laboratory conditions.

Balances are calibrated using NIST traceable weights whose verification of maintenance and recalibration is documented per in-house Standard Operating Procedures. Class A glassware is also calibrated and routinely rechecked per in-house Standard Operating Procedures. Trace metal analyzed acids and Trace Metals Analyzed Water are used in the manufacture of this product.

Shelf Life (unopened container):

Part Number	Shelf Life
8200200801	24 months

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

LaNelle Ohlhausen
Quality Assurance

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

To determine manufacture site using lot number, visit <http://www.riccachemical.com/Documents/lot.pdf>.