Certificate of Analysis AR1036 Calcium Carbonate CRM

AR1036, Lot# 231212 – Certified Values	
	% Carbon
Mean	1.00
Standard Deviation	0.01
Expanded Uncertainty	0.03
k=2, @ 95% CI	n = 30

Method of Analysis: ASTM E 1019-18

Primary (NMI)/GUIDE 34/ISO 17034 Reference Standards Employed:

NIST SRM 13F, 129a

This product is a Certified Reference Material (CRM) traceable to the above-mentioned reference standards. All reference materials should be verified as fit for purpose prior to use. Analytical values are accredited under Alpha Resources, LLC ISO/IEC 17025 and ISO 17034 accreditation issued by ANSI National Accreditation Board (ANAB). Refer to certificates and scopes of accreditation AT-1200 and AR-1920.

Each bottle contains 50 g of reference material in fine powder and is intended for use directly from the bottle without preparation. Refer to test method recommendations for an appropriate sample size.

The intended use of this CRM is for the calibration and validation of induction combustion analyzers with infrared detection as described in the above ASTM methods. The mean analytical values were derived by separate data sets with traceability to the above-mentioned reference standards. Metrological traceability is to the SI derived unit of mass fraction expressed as percent. The precision values represent the estimated mean value and uncertainty derived from the data sets utilizing ANOVA, ISO Guide 35, and the Guide to Uncertainty Measurement. Refer to the test method for additional information related to measurement uncertainty.

Keep sealed and store under normal laboratory conditions. Remedies for any claimed defect in this product will be limited to product replacement or refund of the purchase price. In no event shall Alpha Resources be liable for incidental or consequential damages. This certificate cannot be reproduced except in full. Produced in accordance with ISO 17034.

Reported values are valid for five years from the date of certification.

Certification Date: May 22, 2024

Dustin Jenkins, Ph.D. **Global Technical Director**

