



SPEXertificate®



Certificate of Reference Material

Catalog Number: XASTX-10-500

Lot No. 12-015EL

Description: Custom Assurance Standard

Matrix: 5% HNO₃

This **ASSURANCE®** Certified Reference Material, CRM, is intended primarily for use as a calibration standard or quality control standard for analytical instrumentation such as ICP-OES, DCP, AA, ICP-MS, and XRF. It can be employed in USEPA, ASTM and other methods relevant to the certified properties listed below.

The CRM is prepared from high purity single element concentrates of individual elements using Class A laboratory ware to give precise concentrations.

Instrumental Analysis by ICP Spectrometer:

Analyte	Labeled	Uncertainty	SRM	Analyte	Labeled	Uncertainty	SRM
B	100 µg/mL	±2 µg/mL	3107*	Mo	100 µg/mL	±2 µg/mL	3134*
Ca	100 µg/mL	±2 µg/mL	3109a*	Na	100 µg/mL	±2 µg/mL	3152a*
Co	100 µg/mL	±2 µg/mL	3113*	Ni	100 µg/mL	±2 µg/mL	3136*
Cr	100 µg/mL	±2 µg/mL	3112a*	P	100 µg/mL	±2 µg/mL	3139a*
Cu	100 µg/mL	±2 µg/mL	3114*	S	100 µg/mL	±2 µg/mL	3154*
Fe	100 µg/mL	±2 µg/mL	3126a*	V	100 µg/mL	±2 µg/mL	3165*
K	100 µg/mL	±2 µg/mL	3141a*	Zn	100 µg/mL	±2 µg/mL	3168a*
Mg	100 µg/mL	±2 µg/mL	3131a*				

* - indicates NIST SRM

† - indicates SPEX CertiPrep CRM (when NIST SRM is not available)

SPEX CertiPrep Reference Multi: Lot# MULTI1YP

Balances are calibrated regularly with weight sets traceable to NIST#s 32856, 32867 and others. This CRM is guaranteed stable and accurate to ±2% of the labeled value. This includes uncertainty components due to preparation, measurement, homogeneity, and short-term and long-term stability. This guarantee is valid for a period of one year from the date of certification only when the material is kept tightly capped and stored under ambient laboratory conditions.

Date of Certification: JAN -- 2025 Certifying Officer:

Katherine Cullinan, QC Manager