

# Certificate of Analysis

Rev 0



Quality System Audited & Registered  
by NSF-ISR to ISO 9001:2008

**Catalog No:** 161324-01-01  
**Lot No:** 1075948  
**Storage:** Ambient  
**Matrix:** 10% HNO<sub>3</sub>  
**Container:** 4 oz (125 mL) Narrow Mouth, HDPE clean  
**Description:** Custom Standard 7 Elements # 1324, 100 mL  
mg/L in 10 % HNO<sub>3</sub>



ISO 17025 Accredited Chemical Testing Lab  
Cert. No. 3031.01

**Date Received** \_\_\_\_\_

**Expiration Date** 1-Jul-2016

Element	Symbol	CAS No.	Source Lot No.	Purity %	Concentration mg/L
Calcium	Ca	7440-70-2	7006.409.1P	99.998	20000 +/- 40
Zinc	Zn	7440-66-6	7037.46.5P	99.9995	1000 +/- 3
Lead	Pb	7439-92-1	7023.29.2P	99.999	500 +/- 2
Iron	Fe	7439-89-6	7012.409.1P	99.99	500 +/- 1
Cerium	Ce	7440-45-1	7042.29.2S	99.99	500 +/- 1
Vanadium	V	7440-62-2	7036.46.6P	99.995	500 +/- 1
Silver	Ag	7440-22-4	7000.29.1P	99.999	50 +/- .2

**Certified By:** \_\_\_\_\_

Carrie Bibbins

This standard was prepared gravimetrically using balances calibrated with NIST traceable weights (NIST Test Number 822/264157-00). Only calibrated Class A volumetric glassware was used to prepare this standard. The concentration and uncertainty of this standard are calculated based on the weight and volumes used in the manufacturing process. The uncertainty value is calculated for a 95% confidence interval with a k value of 2. Sub-boiled distilled acid and 18 megaohm deionized water were used to stabilize the product. All raw materials were checked for stoichiometry and purity prior to use. This standard has been spectrometrically certified by an independent source, which is directly traceable to NIST.

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