



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

Certificate of Analysis

Catalog No.: 161325-02-01

Lot No.: 1076335

Storage: Ambient

Matrix: 10% HNO₃ + Tr HF

Description: Custom Standard 11 Elements # 1325, 100 mL
mg/L in 10 % HNO₃ + Tr HF



ISO 17025 Accredited Chemical Testing Lab
Cert. No. 3031.01

Date Received: _____

Expiration Date: 1-Jul-2016

Comment: S, Sn, Sb, Si, Te shipped separately.

Element	Symbol	CAS No.	Source Lot No.	Purity %	Concentration mg/L
Phosphorus	P	7723-14-0	7022.46.11	99.995	2000 +/- 9
Manganese	Mn	7439-96-5	7017.46.5	99.95	1000 +/- 4
Arsenic	As	7440-38-2	7002.46.4	99.999	500 +/- 2
Boron	B	7440-42-8	7003.46.5	99.999	500 +/- 2
Selenium	Se	7782-49-2	7027.46.4	99.999	500 +/- 2
Thallium	Tl	7440-28-0	7034.29.5	99.99	500 +/- 2
Sulfur	S	7704-34-9	7025.43.5	95.9	2000 +/- 9
Tin	Sn	7440-31-5	7029.46.4	99.999	1000 +/- 4
Antimony	Sb	7440-36-0	7026.46.3	99.999	500 +/- 2
Silicon	Si	7440-21-3	7028.46.15	99.999	2000 +/- 7
Tellurium	Te	10605-80-9	7069.46.1	99.999	500 +/- 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.

2030 Savage Road • Charleston, SC 29407
Phone: 866.272.0932 • Fax: 866.509.5146
www.o2si.com