

Certificate of Analysis

Rev 0



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

Catalog No: 160633-02-01
Lot No: 1108815
Storage: Ambient
Matrix: 2% HNO₃ + Tr HF
Container: 4 oz (125 mL) Narrow Mouth, LDPE clean
Description: ICP Solids LOQ Standard, 100 mL
 µg/L in 2% HNO₃ + Tr HF



ISO 17025 Accredited Chemical Testing Lab
Cert. No. 3031.01

Date Received _____
Date Certified 30-May-2017
Expiration Date 1-Jul-2018

Element	Symbol	CAS No.	Source Lot No.	Purity %	Concentration ug/L
Calcium	Ca	7440-70-2	7006.117.4P	99.999	13000 +/- 200
Iron	Fe	7439-89-6	7012.409.1.2	99.99	13000 +/- 200
Potassium	K	7440-09-7	7013.409.6P	99.999	13000 +/- 200
Sodium	Na	7440-23-5	7020.409.1P	99.999	12000 +/- 200
Magnesium	Mg	7439-95-4	7016.409.1P	99.99	15000 +/- 300
Aluminum	Al	7429-90-5	7001.409.2P	99.9999	10000 +/- 50
Phosphorus	P	7723-14-0	7022.409.3P	99.999	7500 +/- 40
Silicon	Si	7440-21-3	7028.409.2P	99.999	5000 +/- 30
Sulfur	S	7704-34-9	7025.43.5P	95.9	5000 +/- 30
Boron	B	7440-42-8	7003.46.5P	99.999	2500 +/- 10
Uranium	U	7440-61-1	7035.330.1P	99.8	2500 +/- 10
Selenium	Se	7782-49-2	7027.409.2P	99.999	1500 +/- 30
Arsenic	As	7440-38-2	7002.409.2P	99.9999	1500 +/- 30
Thallium	Tl	7440-28-0	7034.29.5P	99.99	1000 +/- 5
Antimony	Sb	7440-36-0	7026.409.1.2	99.9999	500 +/- 3
Copper	Cu	7440-50-8	7011.409.3P	99.9999	500 +/- 3
Lead	Pb	7439-92-1	7023.29.4P	99.999	500 +/- 3
Manganese	Mn	7439-96-5	7017.409.2P	99.98	500 +/- 3
Molybdenum	Mo	7439-98-7	7018.29.3P	99.999	500 +/- 3
Tin	Sn	7440-31-5	7029.409.2P	99.999	500 +/- 3
Zinc	Zn	7440-66-6	7037.409.2P	99.9998	500 +/- 3
Barium	Ba	7440-39-3	7004.29.3P	99.997	250 +/- 2
Cadmium	Cd	7440-43-9	7007.46.2P	99.999	250 +/- 2
Chromium	Cr	7440-47-3	7009.409.2P	99.99	250 +/- 2
Cobalt	Co	7440-48-4	7008.409.1P	99.999	250 +/- 2
Nickel	Ni	7440-02-0	7021.409.1P	99.995	250 +/- 2
Silver	Ag	7440-22-4	7000.29.1P	99.999	250 +/- 2
Strontium	Sr	7440-24-6	7030.409.1P	99.999	250 +/- 2
Titanium	Ti	7440-32-6	7033.343.4P	99.995	250 +/- 2
Vanadium	V	7440-62-2	7036.409.2P	99.999	250 +/- 2

Certified By: _____

Shane Overcash

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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