Certificate of Analysis

Rev 0

LabKings B.V.
Tappersweg 59
2031 ER Haarlem
The Netherlands

Catalog No: LK1-CB615103-1L
Lot No: 1079735
Storage: Ambient
Matrix: 10 % HCl
Description: Custom 25 Element Mix, 1 L (4 x 250 mL)
Comment: S shipped separately in H_2O.

Date Received _____
Certification Date 28-Aug-2015
Expiration Date 1-Oct-2016

Element	Symbol	CAS No.	Source Lot No.	Purity %	Concentration mg/L
Calcium	Ca	7440-70-2	7006.409.1P	99.998	1000 +/- 3
Sodium	Na	7440-23-5	7020.46.7P	99.999	500 +/- 1
Magnesium	Mg	7439-95-4	7016.46.5P	99.99	200 +/- .6
Potassium	K	7440-09-7	7013.409.3P	99.999	100 +/- .4
Phosphorus	P	7723-14-0	7022.46.11P	99.995	10 +/- .03
Iron	Fe	7439-89-6	7012.409.1P	99.99	5 +/- .01
Zinc	Zn	7440-66-6	7037.46.5P	99.9995	5 +/- .01
Aluminum	Al	7429-90-5	7001.46.8P	99.9995	2 +/- .006
Barium	Ba	7440-39-3	7004.29.3P	99.997	2 +/- .006
Arsenic	As	7440-38-2	7002.46.5P	99.9999	1 +/- .003
Chromium	Cr	7440-47-3	7009.46.3P	99.998	1 +/- .003
Copper	Cu	7440-50-8	7011.46.5P	99.9995	1 +/- .003
Nickel	Ni	7440-02-0	7021.46.9P	99.995	1 +/- .003
Lead	Pb	7439-92-1	7023.29.3P	99.999	1 +/- .003
Antimony	Sb	7440-36-0	7026.46.2P	99.999	1 +/- .004
Selenium	Se	7782-49-2	7027.46.4P	99.999	1 +/- .003
Tin	Sn	7440-31-5	7029.46.2P	99.999	1 +/- .004
Thallium	Tl	7440-28-0	7034.29.4P	99.99	1 +/- .003
Vanadium	V	7440-62-2	7036.409.1P	99.999	1 +/- .003
Beryllium	Be	7440-41-7	7005.409.1P	99.996	0.5 +/- .001
Cadmium	Cd	7440-43-9	7007.46.3P	99.9999	0.5 +/- .001
Cobalt	Co	7440-48-4	7008.409.1P	99.999	0.5 +/- .001
Manganese	Mn	7439-96-5	7017.46.5P	99.95	0.5 +/- .001

This standard was manufactured by a laboratory accredited to ISO/IEC 17025:2005 (certificate number 3031.01) by the American Association of Laboratory Accreditation (A2LA). The manufacturer's quality system is audited and registered by NSF-ISR to ISO 9001:2008 (certificate number IZ391-IS4).

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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Element	Symbol	CAS No.	Source Lot No.	Purity %	Concentration mg/L
Molybdenum	Mo	7439-98-7	7018.29.2P	99.999	0.5 +/- .002
Sulfur	S	7704-34-9	7025.43.5P	95.9	100 +/- .3

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