Shea Clark Smith / MEG, Inc., P.O. Box 18325, Reno, Nevada, USA 89511
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MEG 2017 LITHIUM / BORON STANDARDS (updated: 01-MAY-17)

AVAILABLE in 25 gram Kraft Envelopes with removable sticky label
Sold with Certificates of Assay for Lithium & Boron (5-8 laboratories, 42 samples)
Analysis: Na2O2 Fusion / ICPAES, Concentrations in Percent
Cost: $6.75 per 25 gram envelope Other Data: Average of 5 samples / aqua regia digestion

MEG-Li.10.11 (0.07% Lithium) n = 42

SAMPLES AVG = 0.072 MAX = 0.080
LABS AVG = 0.072 MIN = 0.060
MEAN + SD = 0.077 STDEV = 0.005
MEAN - SD = 0.067 %RSD = 6.3

95% Confidence = 0.063 - 0.081

Ca	Cs	Fe	K	La	Mg	P	Rb	Sr
%	ppm	%	%	ppm	%	ppm	ppm	ppm
6	70	0.38	0.54	18	2.5	140	125	3000

Aqua Regia Lithium = 0.075% (120 samples)

MEG-Li.10.11 (1.5% Boron) n = 42

SAMPLES AVG = 1.486 MAX = 1.630
LABS AVG = 1.483 MIN = 1.259
MEAN + SD = 1.595 STDEV = 0.112
MEAN - SD = 1.371 %RSD = 7.6

95% Confidence = 1.258 - 1.708

Source = Clayton Valley, NV

MEG-Li.10.14 (0.08% Lithium) n = 40

SAMPLES AVG = 0.081 MAX = 0.100
LABS AVG = 0.081 MIN = 0.067
MEAN + SD = 0.088 STDEV = 0.007
MEAN - SD = 0.074 %RSD = 8.9

95% Confidence = 0.067 - 0.096

Ca	Cs	Fe	K	La	Mg	P	Rb	Sr
%	ppm	%	%	ppm	%	ppm	ppm	ppm
4.1	310	1.57	0.55	75	1.5	290	123	860

Aqua Regia Lithium = 0.078% (120 samples)

MEG-Li.10.14 (0.17% Boron) n = 40

SAMPLES AVG = 0.174 MAX = 0.200
LABS AVG = 0.174 MIN = 0.147
MEAN + SD = 0.189 STDEV = 0.015
MEAN - SD = 0.159 %RSD = 8.6

95% Confidence = 0.144 - 0.203

Source = Clayton Valley, NV

MEG-Li.10.13 (0.12% Lithium) n = 43

SAMPLES AVG = 0.118 MAX = 0.140
LABS AVG = 0.118 MIN = 0.099
MEAN + SD = 0.128 STDEV = 0.010
MEAN - SD = 0.108 %RSD = 8.1

95% Confidence = 0.099 - 0.137

Ca	Cs	Fe	K	La	Mg	P	Rb	Sr
%	ppm	%	%	ppm	%	ppm	ppm	ppm
7.5	100	0.51	0.83	48	3.8	220	190	5500

Aqua Regia Lithium = 0.124% (120 samples)

MEG-Li.10.13 (1.7% Boron) n = 43

SAMPLES AVG = 1.739 MAX = 1.900
LABS AVG = 1.737 MIN = 1.439
MEAN + SD = 1.881 STDEV = 0.144
MEAN - SD = 1.593 %RSD = 8.3

95% Confidence = 1.449 - 2.025

Source = Clayton Valley, NV

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MEG-Li.10.15 (0.16% Lithium) n = 42

SAMPLES AVG = 0.158	MAX = 0.180
LABS AVG = 0.158	MIN = 0.124
MEAN + SD = 0.170	STDEV = 0.012
MEAN - SD = 0.146	%RSD = 7.5

95% Confidence = 0.135 - 0.182

MEG-Li.10.15 (1.6% Boron) n = 42

SAMPLES AVG = 1.587	MAX = 1.740
LABS AVG = 1.587	MIN = 1.239
MEAN + SD = 1.729	STDEV = 0.142
MEAN - SD = 1.445	%RSD = 8.9

95% Confidence = 1.304 - 1.870

Ca	Cs	Fe	K	La	Mg	P	Rb	Sr
%	ppm	%	%	ppm	%	ppm	ppm	ppm
7	125	0.59	1.1	31	4.6	170	240	7500

Aqua Regia Lithium = 0.171% (120 samples)

Source = Clayton Valley, NV

Preparation Methods

Mineralized source rock is dried, crushed, blended, and reduced to powder using either (or both) ring & puck pulverizers and ceramic ball mill. Product from the mill is sieved through an 80 mesh (177um) screen. The -80 mesh product is tested for particle size distribution, with an acceptable criterion of 96% pass 200 mesh. If the product is known to contain metal sulfides, futher blending is done with a rotary splitter to assure homogenous particle distribution. The product is immediately packaged into tintop envelopes of 50 grams to reduce and isolate gravity separation and redistribution that may occur in bulk packaging. To each envelope is attached a removable sticky label for the accuracy of assay submittal records.

Statistical Methods

Numerical parameters are determined and presented for each standard. The mean of all samples is stated as "Samples Avg". "Samples Avg" disregards between-lab bias and includes a measure of variance for the entire population comprised of individual samples. The mean of all labs is stated as "Labs Avg", which incorporates a measure of laboratory bias, yet reduces the affects of within-lab variance. The best estimate of the True Mean is considered to be the "Labs Avg", and from this mean are calculated Standard Deviation, Min, Max, %Relative Standard Deviation, and the 95%Confidence Limits of +/- 2 standard deviations.

5%RSD = Excellent for measurements of accuracy with high degree of certainty.
5%RSD - 10%RSD = Good for measurements of accuracy with moderate degree of certainty.
10%RSD - 15%RSD = Provisional for measurements of accuracy with low degree of certainty.

Users are encouraged to refine these initial statistical parameters by adding their own data .

Liability Statement

MEG Standards are intended for use as QAQC monitors for analytical submittals, and not for use in the calibration of instrumental methods. These geochemical reference materials and the statistics that charaterize them have been prepared with professional care and attention to detail. Shea Clark Smith / MEG, Inc. and Shea Clark Smith, MSc., P.G. accept no liability for any decisions or actions that have been taken following the use of these reference materials. Liability is limited to only the cost of the reference material.