

MEG, LLC

P.O. Box 281728, Lamoille, Nevada, USA 89828

Web: <https://megllc.net>

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Email: standards@megllc.net**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: \$7.85 per 25 gram envelope

Other Data: Average of 5 samples / aqua regia digestion

MEG-Li.10.11 (0.07% Lithium) n = 85

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 = 0.065 - 0.079

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

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

SAMPLES AVG = 1.48 MAX = 1.63
 LABS AVG = **1.48** MIN = 1.25
 MEAN + SD = 1.63 STDEV = 0.11
 MEAN - SD = 1.33 %RSD = 7.6

95% Confidence = 1.258 - 1.708

Source = Clayton Valley, NV

MEG-Li.10.12 (0.12% Lithium) n = 41

SAMPLES AVG = 0.117 MAX = 0.140
 LABS AVG = **0.117** MIN = 0.097
 MEAN + SD = 0.130 STDEV = 0.009
 MEAN - SD = 0.105 %RSD = 8.5

95% Confidence = 0.097 - 0.137

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

MEG-Li.10.12 (1.4% Boron) n = 45

SAMPLES AVG = **1.4** MAX = 1.6
 LABS AVG = 1.2 MIN = 1.2
 MEAN + SD = 1.3 STDEV = 0.1
 MEAN - SD = 1.1 %RSD = 7.2

95% Confidence = 1.2 - 1.6

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 = 0.110 %RSD = 8.1

95% Confidence = 0.099 - 0.138

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

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

SAMPLES AVG = 1.7 MAX = 1.9
 LABS AVG = **1.7** MIN = 1.4
 MEAN + SD = 1.9 STDEV = 0.144
 MEAN - SD = 1.6 %RSD = 8.3

95% Confidence = 1.4 - 2.0

Source = Clayton Valley, NV

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MEG 2017 LITHIUM / BORON STANDARDS CONTINUED (updated: 01-MAY-17)

MEG-Li.10.14 (0.08% Lithium) n = 42		Ca	Cs	Fe	K	La	Mg	P	Rb	Sr
SAMPLES AVG = 0.081	MAX = 0.098	%	ppm	%	%	ppm	%	ppm	ppm	ppm
LABS AVG = 0.081	MIN = 0.073	7	125	0.59	1.1	31	4.6	170	240	7500
MEAN + SD = 0.090	STDEV = 0.072									
MEAN - SD = 0.073	%RSD = 8.9									

95% Confidence = 0.067 - 0.097

MEG-Li.10.14 (0.1% Boron) n = 42	
SAMPLES AVG = 0.14	MAX = 0.17
LABS AVG = 0.14	MIN = 0.12
MEAN + SD = 0.016	STDEV = 0.01
MEAN - SD = 0.012	%RSD = 9.0

Source = Clayton Valley, NV

MEG-Li.10.15 (0.16% Lithium) n = 38		Ca	Cs	Fe	K	La	Mg	P	Rb	Sr
SAMPLES AVG = 0.161	MAX = 0.171	%	ppm	%	%	ppm	%	ppm	ppm	ppm
LABS AVG = 0.161	MIN = 0.142	7	125	0.59	1.1	31	4.6	170	240	7500
MEAN + SD = 0.177	STDEV = 0.010									
MEAN - SD = 0.145	%RSD = 6.5									

95% Confidence = 0.140 - 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 = 1.750	STDEV = 0.142
MEAN - SD = 1.430	%RSD = 8.9

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, further 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 characterize 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.