

CDN Resource Laboratories Ltd.

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REFERENCE MATERIAL: CDN-Li-1

Recommended value and the "Between Laboratory" two standard deviations

Lithium	0.221 % ± 0.015 %	Certified value	Na2O2 Fusion, ICP finish
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PREPARED BY: CDN Resource Laboratories Ltd.
CERTIFIED BY: Ali Alizadeh, MSc, MBA, P Geo
INDEPENDENT GEOCHEMIST: Dr. Barry Smee., Ph.D., P. Geo.
DATE OF CERTIFICATION: May 8th, 2023

ORIGIN OF REFERENCE MATERIAL:

Standard CDN-Li-1 was prepared using 150 kg of blank granite with 1 Kg of high-grade lithium concentrate.

METHOD OF PREPARATION:

Material was dried, crushed, pulverized, and then passed through a 270-mesh screen. The +270 material was discarded. The -270 material was mixed for 5 days in a double-cone blender. Splits were taken and sent to 11 commercial laboratories for round robin assaying.

ASSAY PROCEDURES:

Li: Na2O2 Fusion, ICP finish.

Whole rock analysis was conducted on 3 samples.

STATISTICAL PROCEDURES:

The final limits were calculated after first determining if all data was compatible within a spread normally expected for similar analytical methods done by reputable laboratories. Data from any one laboratory was removed from further calculations when the mean of all analyses from that laboratory failed a t test of the global means of the other laboratories. The mean and standard deviation were calculated using all remaining data. Any analysis that fell outside of the mean ± 2 standard deviations was removed from the ensuing data base. The mean and standard deviations were again calculated using the remaining data. This method is different from that used by Government agencies in that the actual "between-laboratory" standard deviation is used in the calculations. This produces upper and lower limits that reflect actual individual analyses rather than a grouped set of analyses. The limits can therefore be used to monitor accuracy from individual analyses, unlike the Confidence Limits published on other standards.

Our certified gold values are based on 30 g Fire Assay determinations. For optimal results, we strongly recommend you assay our standards with similar methods using "at least" 30 g of material. Using a smaller sample weight may result in erratic values.

Printed results from Round Robin Assaying is available in Appendix II and can be provided upon request.

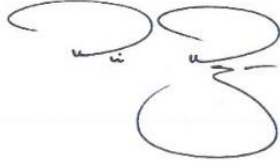
Quality Assurance and Quality Control Procedures:

Screening Test: After completion of homogenization, three samples, 300g each of homogenized material was randomly collected and was re-screened by a testing sieve. Over size material of this standard and based on CDN's screening test was ~%1.0. (Appendix III).

LEGAL NOTICE:

This certificate and the reference material described in it have been prepared with due care and attention. However, CDN Resource Laboratories Ltd. nor Barry Smee accept any liability for any decisions or actions taken following the use of the reference material. Our liability is limited solely to the cost of the reference material.

Certified by



Ali Alizadeh, MSc, MBA, P.Geol.

Geochemist



Dr. Barry Smee, PhD, P. Geo.

APPENDIX I:

Whole rock analysis and 30 element ICP analysis (4-acid digestion) were also conducted on 3 samples.

APPROXIMATE CHEMICAL COMPOSITION (by whole rock analysis):

Analyte	Percent	Analyte	Percent
SiO ₂	69.2	Na ₂ O	4.7
Al ₂ O ₃	14.1	MgO	1.0
Fe ₂ O ₃	3.4	K ₂ O	1.9
CaO	2.4	TiO ₂	0.3
MnO	<0.1	LOI	2.1
Total S	0.05	Total C	0.3

PARTICIPATING LABORATORIES: (not in same order as table of assays)

Activation Labs, Ancaster, Ontario, Canada	SGS Burnaby, BC, Canada
Activation Labs, Thunder Bay, Ontario, Canada	SGS Lakefield, ON, Canada
ALS, Brisbane, Australia	SGS Lima, Peru
ALS, Loughrea, Ireland	
ALS, Perth Australia	
ALS Canada, North Vancouver, BC, Canada	
Bureau Veritas, Perth, Australia	
MS Analytical, Langley, BC, Canada	

APPENDIX II:

RESULTS FROM ROUND ROBIN ASSAYING:

Standard	Lab 1	Lab 2	Lab 3	Lab 4	Lab 5	Lab 6	Lab 7	Lab 8	Lab 9	Lab 10	Lab 11
	Na2O2 Fusion, ICPAES										
Li-1	0.23	0.23	0.226	0.216	0.229	0.220	0.206	0.23	0.300	0.223	0.22
	0.23	0.23	0.218	0.221	0.217	0.217	0.207	0.23	0.305	0.229	0.22
	0.23	0.22	0.219	0.214	0.220	0.222	0.205	0.23	0.309	0.238	0.22
	0.22	0.23	0.215	0.214	0.218	0.302	0.209	0.22	0.308	0.226	0.23
	0.22	0.22	0.214	0.216	0.216	0.222	0.214	0.23	0.309	0.230	0.23
	0.23	0.23	0.215	0.213	0.219	0.223	0.206	0.22	0.325	0.227	0.22
	0.23	0.23	0.213	0.215	0.222	0.223	0.209	0.22	0.300	0.230	0.23
	0.23	0.27	0.212	0.215	0.220	0.228	0.205	0.24	0.313	0.219	0.22
	0.21	0.23	0.218	0.214	0.218	0.237	0.212	0.21	0.314	0.222	0.23
	0.22	0.23	0.214	0.213	0.224	0.216	0.198	0.23	0.306	0.221	0.22
Mean	0.23	0.23	0.216	0.215	0.220	0.231	0.207	0.23	0.309	0.226	0.22
Std. Devn.	0.01	0.01	0.00	0.00	0.00	0.03	0.00	0.01	0.01	0.01	0.01
% RSD	3.14	6.03	1.89	1.08	1.75	11.10	2.12	3.73	2.38	2.41	2.31

Notes:

Li results from Lab 9 were removed for failing the t test.

APPENDIX III: QAQC

Table below illustrates percentages of over size (+275 mesh) material in CDN-Li-1.

Standard	Study Date	Total weight Screened (g)	Total weight Over size (g)	Percentage
CDN-Li-1	4/3/2023	300	1	0.3%
CDN-Li-1	4/3/2023	300	1.1	0.4%
CDN-Li-1	4/3/2023	300	1	0.3%

APPENDIX IV: General Notes

Intended Use

This Certified Reference Material, fit for use as a control sample in routine assay laboratory quality control when inserted within runs of test samples and measured in parallel to test samples. This material can also be used for method development, use as independent calibration verification check standard or for validation of accuracy in a method validation exercise. This CRM can also be used to assess inter-laboratory or instrument bias and establish within-laboratory precision and within-laboratory reproducibility. The certified concentrations and expanded uncertainty for this material are property values based on an inter-laboratory measurement campaign and reflect consensus results from the laboratories that took part in the exercise.

Handling

Do not use if the seal is broken or there are any signs of contamination.

The material is packaged in either Tin Tie envelopes, foil envelopes or jars that must be shaken before use.

Storage information

The material should be stored in a dry place, in such a way that it does not compromise the integrity of the CRM. The material should be stored in conditions which will ensure it does not absorb moisture.

Metrological Traceability

The values quoted herein are based on the consensus values derived from statistical analysis of the data from an inter-laboratory measurement program. Traceability to SI units is via the standards used by the individual laboratories the majority of which are accredited to the ISO17025 general requirements for the competence of testing and calibration laboratories and who have maintained measurement traceability during the analytical process.

Period of Validity

The certified values are valid for this product, while still sealed in its original packaging, until notification to the contrary. The stability of the material will be subject to continuous testing for the duration of the inventory. Should product stability become an issue, all customers will be notified and notification to that effect will be placed on the <http://www.cdnlabs.com/> website.

Minimum Sample Size

Most of the laboratory's reporting used a 0.5g sample size for the ICP and a 30g sample size for the fire assay. Our certified gold values are based on 30 g Fire Assay determinations. For optimal results, we strongly recommend you assay our standards with similar methods using "at least" 30 g of material. Using a smaller sample weight may result in erratic values. These are the recommended minimum sample sizes for the use of this material.