

CDN Resource Laboratories Ltd.

Certificate of Analysis

REFERENCE MATERIAL: CDN-GS-13C

Recommended values and the "Between Lab" Two Standard Deviations

Gold	13.23 gpt ± 0.63 gpt	Fire Assay, gravimetric finish	Certified value
	13.72 gpt ± 0.35 gpt	Gamma ray- photon assay instrument	

Note 1: Standards with an RSD of near or less than 5% are certified; RSD's of between 5% and 15% are Provisional; RSD's over 15% are Indicated. Provisional and Indicated values cannot be used to monitor accuracy with a high degree of certainty.

PREPARED BY: CDN Resource Laboratories Ltd.
CERTIFIED BY: Ali Alizadeh, MSc, MBA, P Geo
INDEPENDENT GEOCHEMIST: Dr. Barry Smee., Ph.D., FGC
DATE OF CERTIFICATION: September 3rd, 2025

ORIGIN OF REFERENCE MATERIAL:

Standard CDN-GS-13C was prepared from ore that became available to CDN from Amaruq gold project, Kivalliq District of Nunavut Territory, Canada. Mineralization styles identified at these sectors include pyrrhotite-amphibole-carbonate injections and replacement in iron formation, along with silica-flooding in association with arsenopyrite-pyrrhotite in chert-rich units. The deposits also feature discordant shear zones comprising quartz, carbonates, sulfide, and native gold.

METHOD OF PREPARATION:

Reject ore 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 mixer. Splits were taken and sent to participating commercial laboratories for round robin assaying.

Assay Procedures:

Au: Fire assay pre-concentration, gravimetric finish.
Au: Gamma ray- photon assay instrument

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 means and standard deviations were calculated using all remaining data. Any analysis that fell outside of the mean ± 2 standard deviations was removed from the ensuing database. 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.

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 ~%1.5.

Homogeneity Test:

15 samples were selected selectively throughout the batch and were sent to an independent assay Laboratories for Homogeneity testing following directions of Annex B, Homogeneity and Stability of proficiency test items, ISO 13528:2015 Guidelines.

Assay results went through a statistical work-up by checking the mean, standard deviation, and %RSD. Based on performed statistical works outlined by ISO 13528; CDN-GS-13C is statistically homogenized (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.Geo.

Geochemist



Dr. Barry Smee, PhD, FGC

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	61.0	Na ₂ O	0.7
Al ₂ O ₃	7.0	MgO	4.4
Fe ₂ O ₃	16.4	K ₂ O	1.6
CaO	2.7	TiO ₂	0.2
MnO	0.2	LOI	3.1
Total S	2.95	Total C	0.90

Fire Assay Participating Laboratories: (not in same order as table of assays)

Activation Labs, Ancaster, Ontario, Canada	ALS Canada, North Vancouver, BC, Canada
Activation Labs, Thunder Bay, Ontario, Canada	Bureau Veritas, Vancouver, BC, Canada
AGAT, AB, Canada	MS Analytical, Langley, BC, Canada
ALS, Brisbane, Australia	SGS Lakefield, ON, Canada
ALS Lima, Peru	SGS, Vancouver, BC, Canada
ALS, Loughrea, Ireland	
ALS, Perth, Australia	
ALS, Val d'Or, QC, Canada	

Fire Assay Participating Laboratories: (not in same order as table of assays)

ALS, Thunder Bay, Ontario, Canada	MSA, Val D'Or, QC, Canada
MSA, Prince George, BC, Canada	Paragon, Langley, BC, Canada
MSA, Timmins, Ontario, Canada	

APPENDIX II: Results from round-robin assaying:

	Lab 1	Lab 2	Lab 3	Lab 4	Lab 5	Lab 6	Lab 7	Lab 8	Lab 9	Lab 10	Lab 11	Lab 12	Lab 13
GS-13C	Au by Fire Assay, 30g sample size and Gravimetric finish												
	13.0	10.4	13.3	13.05	13.50	13.85	12.65	12.00	13.50	13.17	13.5	13.3	12.8
	13.1	13.7	12.3	13.05	13.05	13.35	13.25	12.65	13.65	13.21	13.0	13.2	12.9
	13.0	13.4	17.1	13.20	13.50	13.10	13.40	11.80	13.30	13.73	13.1	13.7	13.1
	13.3	13.3	11.3	13.45	13.45	13.60	13.00	12.90	13.55	12.93	13.0	13.3	12.3
	13.3	13.3	13.6	13.35	13.15	12.85	13.35	13.25	13.70	13.32	13.3	13.2	12.8
	13.0	12.7	12.9	13.10	13.80	13.65	13.65	13.55	13.45	13.39	13.3	13.4	13.0
	12.9	13.8	13.3	13.15	13.90	12.90	12.70	14.40	13.55	13.21	13.1	13.1	12.5
	12.8	14.0	13.4	13.65	13.25	13.00	13.20	12.20	13.75	13.25	13.1	13.3	13.3
	12.9	12.3	13.4	13.05	13.45	13.05	13.25	12.60	13.60	13.29	12.9	13.5	13.0
	13.2	13.0	13.7	12.65	13.05	13.05	13.15	13.45	12.85	13.52	13.5	13.3	13.1
Mean	13.1	13.0	13.4	13.17	13.41	13.24	13.16	12.88	13.49	13.30	13.2	13.3	12.9
Std. Dev	0.17	1.04	1.48	0.27	0.29	0.35	0.31	0.80	0.26	0.21	0.21	0.17	0.30
% RSD	1.31	8.04	11.02	2.06	2.17	2.64	2.33	6.21	1.92	1.61	1.59	1.28	2.31

	Lab 14	Lab 15	Lab 16	Lab 17	Lab 18
GS-13C	Gamma ray- photon assay instrument				
	13.57	13.768	13.669	13.812	13.600
	13.93	13.430	13.877	13.848	13.986
	13.52	13.741	13.298	13.414	13.981
	13.69	13.653	13.838	14.059	13.948
	13.49	14.167	13.810	13.785	13.536
	13.69	13.588	13.535	13.793	13.722
	13.65	13.725	13.671	13.785	13.796
Mean	13.93	13.430	13.877	13.848	13.986
Std. Dev	13.52	13.741	13.298	13.414	13.981
% RSD	13.69	13.653	13.838	14.059	13.948

Notes:

Highlighted results were removed for failing the t-test or poor precision.

APPENDIX III: QAQC

Table below illustrates percentages of over size (+275 mesh) material in CDN-GS-13C

Standard	Study Date	Total weight Screened (g)	Total weight Over size (g)	Percentage
GS-13C	2/10/2025	300 g	5.0	1.7%
			4.0	1.3%
			5.0	1.7%

COMMITTED TO EXCELLENCE

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Table below shows homogeneity test results of CDN-GS-13C

GS-13C	Au Original	Au Repeat	Between Sample Variance Wt	Sample Avg. Xt	Stddev of Sample Avg	Within-Sample Std.
	13.99	14.24	0.250	14.115	0.001	0.063
	14.23	14.58	0.350	14.405	0.106	0.123
	15.13	14.21	0.920	14.670	0.349	0.846
	14.20	14.40	0.200	14.300	0.049	0.040
	13.94	13.71	0.230	13.825	0.065	0.053
	14.54	14.07	0.470	14.305	0.051	0.221
	14.33	14.30	0.030	14.315	0.056	0.001
	14.15	13.85	0.300	14.000	0.006	0.090
	14.09	14.38	0.290	14.235	0.024	0.084
	13.48	14.16	0.680	13.820	0.067	0.462
	14.71	14.30	0.410	14.505	0.181	0.168
	13.76	13.43	0.330	13.595	0.235	0.109
	13.77	13.46	0.310	13.615	0.216	0.096
	14.02	13.63	0.390	13.825	0.065	0.152
	13.75	13.57	0.180	13.660	0.176	0.032
Statistics			Gavg	SX	SS	
Mean	14.139	14.019	14.079	0.343	0.274	
SD	0.4193	0.3772	C	C SQRT		
RSD	2.965	2.691	0.2588	0.51		
Proof of Homogeneity	Based on Statistical procedures outlined in Annex B, ISO 13528 guidelines, If “SS is < square root of C” Standard is considered homogenous. GS-13C is statistically homogenous					

APPENDIX IV: General Notes

Intended Use

This Certified Reference Material fits 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.

Certificate is not valid if re-packaged by a third party.

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, all 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 material's stability will undergo regular testing every five years throughout its inventory duration. 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.