

CDN Resource Laboratories Ltd.

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REFERENCE MATERIAL: CDN-GS-8E

Recommended value and the "Between Laboratory" two standard deviations

Gold	8.53 g/t ± 0.41 g/t	Certified value	30g FA / Instrumental
	8.62 g/t ± 0.35 g/t	Certified value	30g FA / gravimetric

PREPARED BY: CDN Resource Laboratories Ltd.
CERTIFIED BY: Duncan Sanderson, B.Sc., Licensed Assayer of British Columbia
INDEPENDENT GEOCHEMIST: Dr. Barry Smee., Ph.D., P. Geo.
DATE OF CERTIFICATION: May 29, 2017

ORIGIN OF REFERENCE MATERIAL:

Standard CDN-GS-8E was prepared using 740 kg of blank granite and 60 kg of a high-grade gold ore.

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 blender. Splits were taken and sent to 15 commercial laboratories for round robin assaying.

ASSAY PROCEDURES:

Au: Fire assay pre-concentration, AA or ICP finish.
Au: Fire assay pre-concentration, Gravimetric Finish

RESULTS FROM ROUND ROBIN ASSAYING:

Instrumental Finish	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	Lab 14	Lab 15
SAMPLE	Au g/t	Au g/t	Au g/t	Au g/t	Au g/t	Au g/t	Au g/t	Au g/t	Au g/t	Au g/t	Au g/t	Au g/t	Au g/t	Au g/t	Au g/t
GS-8E-1	8.61	8.44	8.86	8.52	8.63	8.13	8.60	8.19	8.65	8.87	8.83	8.76	8.46	8.42	8.35
GS-8E-2	8.43	8.52	8.79	8.76	8.28	8.31	8.42	8.41	8.45	8.82	8.69	8.77	8.39	8.53	8.51
GS-8E-3	8.39	8.40	8.87	8.58	8.57	8.53	8.44	8.19	8.65	8.43	8.75	8.96	8.42	8.42	8.50
GS-8E-4	8.22	8.41	8.90	8.75	8.07	8.31	8.26	8.11	8.57	8.66	8.61	8.97	8.45	8.58	8.65
GS-8E-5	8.51	8.50	8.90	8.73	8.52	7.90	8.50	8.38	8.38	8.66	8.94	8.77	8.52	8.45	8.72
GS-8E-6	8.50	8.43	8.58	8.76	8.18	8.36	8.51	8.34	8.44	8.40	8.98	9.09	8.56	8.72	8.82
GS-8E-7	8.58	8.29	9.02	8.53	8.60	8.30	8.56	8.14	8.60	8.38	8.50	9.08	8.46	8.66	8.64
GS-8E-8	8.66	8.45	8.75	8.42	8.08	8.27	8.59	8.23	8.40	8.27	8.71	8.99	8.64	8.74	8.26
GS-8E-9	8.40	8.45	8.63	8.66	8.12	8.50	8.46	8.39	8.35	8.49	8.99	9.10	8.46	8.41	8.54
GS-8E-10	8.77	8.30	8.78	8.44	8.47	8.51	8.66	8.38	8.47	8.77	8.62	9.09	8.32	8.39	8.81
Mean	8.48	8.43	8.81	8.63	8.34	8.29	8.48	8.26	8.50	8.55	8.78	8.94	8.48	8.55	8.55
Std. Dev'n	0.13	0.07	0.14	0.13	0.24	0.19	0.11	0.12	0.12	0.21	0.17	0.14	0.08	0.13	0.18
%RSD	1.58	0.80	1.58	1.48	2.84	2.28	1.26	1.40	1.40	2.44	1.95	1.60	0.91	1.56	2.06

Gravimetric Finish	Lab 1	Lab 2	Lab 3	Lab 4	Lab 5	Lab 6	Lab 7	Lab 8	Lab 9	Lab10	Lab 11	Lab 12	Lab13	Lab14	Lab15
GS-8E-1	8.62	8.52	8.63	8.72	8.55	8.13	8.65	8.77	8.75	8.74			8.53	8.73	8.96
GS-8E-2	8.82	8.71	8.43	8.61	8.47	8.60	8.90	8.31	8.54	8.50			8.73	8.80	8.62
GS-8E-3	8.93	8.73	8.64	8.71	8.67	8.43	8.85	8.58	8.47	8.56			8.39	9.05	8.84
GS-8E-4	8.20	8.75	8.68	8.53	8.40	8.47	8.35	8.82	8.65	8.93			8.30	8.71	8.75
GS-8E-5	8.34	8.87	8.81	8.73	7.95	8.36	8.49	8.63	8.55	8.96			8.42	8.88	8.85
GS-8E-6	8.61	8.43	8.23	8.80	7.82	8.63	8.55	8.72	8.43	8.56			8.52	8.83	8.79
GS-8E-7	9.01	8.44	8.72	8.59	8.83	8.47	8.65	8.84	8.42	8.64			8.33	8.79	8.55
GS-8E-8	8.39	8.64	8.56	8.60	8.19	8.35	8.49	8.51	8.86	8.80			8.33	8.59	8.83
GS-8E-9	8.55	8.26	8.22	8.80	8.79	8.31	8.62	8.29	8.69	8.72			8.32	8.98	8.89
GS-8E-10	8.64	8.71	8.82	8.49	8.55	8.65	8.69	8.79	8.38	8.44			8.52	8.82	8.86
Mean	8.61	8.59	8.55	8.68	8.41	8.42	8.62	8.61	8.60	8.71			8.43	8.82	8.79
Std. Dev'n	0.27	0.19	0.21	0.10	0.36	0.15	0.18	0.21	0.15	0.16			0.14	0.14	0.13
%RSD	3.18	2.26	2.46	1.11	4.25	1.81	2.03	2.40	1.77	1.88			1.67	1.59	1.48

Note: Labs 11 and 12 did not report gravimetric results.

APPROXIMATE CHEMICAL COMPOSITION (by whole rock analysis):

	Percent		Percent
SiO2	58.8	Na2O	3.0
Al2O3	16.5	MgO	3.0
Fe2O3	8.6	K2O	1.9
CaO	5.5	TiO2	0.6
MnO	0.1	LOI	1.6
Total S	0.02	Total C	0.05

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.

PARTICIPATING LABORATORIES:

(not in same order as table of assays)

- Bureau Veritas, Vancouver, BC, Canada
- Activation Laboratories, Ancaster, Ontario, Canada
- Activation Laboratories, Thunder Bay, Ontario, Canada
- ALS Canada, North Vancouver, BC, Canada
- ALS, Loughrea, Ireland
- ALS, Lima, Peru
- Argetest, Ankara, Turkey
- Certimin S.A., Lima, Peru
- AGAT Labs, Mississauga, Ontario, Canada
- MS Analytical, Langley, BC, Canada
- SGS, Vancouver, BC, Canada
- SGS, Lima, Peru
- SGS, Lakefield, Ontario, Canada
- TSL Laboratories Ltd., Saskatoon, SK, Canada
- Andes Analytical Assay Ltda., Santiago, Chile

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



Duncan Sanderson, Certified Assayer of B.C.

Geochemist



Dr. Barry Smee, Ph.D., P. Geo.