

CDN Resource Laboratories Ltd.

10945-B River Road, Delta, B.C., V4C 2R8, 604 596-2245, Fax: 604 588-3960

PLATINUM GROUP ORE REFERENCE STANDARD: CDN-PGMS-3

Recommended values and 95% Confidence Intervals ($\pm 2SD$)

Gold concentration: 0.33 ± 0.06 g/tonne

Platinum concentration: 0.13 ± 0.03 g/tonne

Palladium concentration: 0.59 ± 0.07 g/tonne

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.

METHOD OF PREPARATION:

This standard was prepared by combining a quantity of standard CDN-PGMS-1 with a quantity of standard CDN-GS-1 and diluting with a blank granitic material that had been screened to -200 mesh. The material was mixed for 10 days in a rotary mixer. After internal assaying to test for homogeneity, splits were taken and sent to 7 laboratories for round robin assaying .

Approximate chemical composition is as follows:

	Percent			Percent
SiO ₂	63.8		MgO	3.1
Al ₂ O ₃	13.4		K ₂ O	1.1
Fe ₂ O ₃	7.6		TiO ₂	0.6
CaO	4.6		LOI	2.3
Na ₂ O	2.8			

Statistical Procedures:

The mean and standard deviation for all data was calculated. Outliers were defined as samples beyond the mean ± 2 Standard Deviations from all data. These outliers were removed from the data and a new mean and standard deviation was determined. 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 Certified Limits published on other standards.

Results from round-robin assaying are presented on the following page:

Assay Procedure: 30g fire assay, AA or ICP finish.

PLATINUM GROUP ORE REFERENCE STANDARD: CDN-PGMS-3

		Au (gpt)	Au (gpt)	Au (gpt)	Au (gpt)	Au (gpt)	Au (gpt)	Au (gpt)
	CDN-PGMS3-1	0.36	0.32	0.32	0.32	0.36	0.35	0.37
	CDN-PGMS3-2	0.32	0.29	0.25	0.35	0.31	0.32	0.36
	CDN-PGMS3-3	0.30	0.32	0.32	0.31	0.32	0.36	0.37
	CDN-PGMS3-4	0.34	0.32	0.31	0.40	0.33	0.31	0.38
	CDN-PGMS3-5	0.29	0.33	0.25	0.34	0.29	0.31	0.39
	CDN-PGMS3-6	0.31	0.34	0.27	0.35	0.32	0.29	0.36
	CDN-PGMS3-7	0.29	0.30	0.35	0.38	0.31	0.33	0.36
	CDN-PGMS3-8	0.30	0.27	0.37	0.33	0.29	0.32	0.38
	CDN-PGMS3-9	0.33	0.30	0.35	0.32	0.34	0.33	0.35
	CDN-PGMS3-10	0.31	0.28	0.36	0.33	0.30	0.38	0.39
	CDN-PGMS3-11	0.31	0.25	0.29	0.34	0.31	0.30	0.36
	CDN-PGMS3-12	0.35	0.33	0.35	0.33	0.36	0.38	0.36
	Mean	0.32	0.30	0.32	0.34	0.32	0.33	0.37
	Std. Dev.	0.023	0.027	0.043	0.025	0.026	0.030	0.013
	%RSD	7.19	9.15	13.29	7.43	8.01	9.13	3.54
		Pt (gpt)	Pt (gpt)	Pt (gpt)	Pt (gpt)	Pt (gpt)	Pt (gpt)	Pt (gpt)
	CDN-PGMS3-1	0.11	0.13	0.12	0.14	0.12	0.16	0.17
	CDN-PGMS3-2	0.12	0.12	0.15	0.15	0.13	0.11	0.16
	CDN-PGMS3-3	0.12	0.10	0.17	0.12	0.12	0.13	0.18
	CDN-PGMS3-4	0.14	0.12	0.11	0.15	0.12	0.13	0.16
	CDN-PGMS3-5	0.14	0.12	0.13	0.11	0.12	0.14	0.17
	CDN-PGMS3-6	0.12	0.13	0.15	0.16	0.15	0.13	0.16
	CDN-PGMS3-7	0.12	0.11	0.17	0.17	0.12	0.13	0.16
	CDN-PGMS3-8	0.16	0.12	0.13	0.14	0.12	0.12	0.16
	CDN-PGMS3-9	0.13	0.12	0.15	0.13	0.12	0.13	0.17
	CDN-PGMS3-10	0.12	0.11	0.15	0.11	0.14	0.13	0.16
	CDN-PGMS3-11	0.13	0.13	0.11	0.14	0.12	0.12	0.18
	CDN-PGMS3-12	0.13	0.12	0.15	0.13	0.13	0.13	0.16
	Mean	0.13	0.12	0.14	0.14	0.12	0.13	0.17
	Std. Dev.	0.013	0.009	0.021	0.020	0.011	0.011	0.008
	%RSD	10.29	7.50	14.75	13.99	8.86	8.74	4.66
		Pd (gpt)	Pd (gpt)	Pd (gpt)	Pd (gpt)	Pd (gpt)	Pd (gpt)	Pd (gpt)
	CDN-PGMS3-1	0.56	0.57	0.61	0.61	0.60	0.56	0.63
	CDN-PGMS3-2	0.55	0.56	0.60	0.55	0.57	0.53	0.65
	CDN-PGMS3-3	0.58	0.59	0.64	0.53	0.62	0.56	0.62
	CDN-PGMS3-4	0.59	0.62	0.60	0.55	0.61	0.56	0.63
	CDN-PGMS3-5	0.59	0.62	0.62	0.56	0.59	0.57	0.62
	CDN-PGMS3-6	0.56	0.60	0.64	0.58	0.59	0.56	0.63
	CDN-PGMS3-7	0.54	0.58	0.69	0.64	0.62	0.55	0.62
	CDN-PGMS3-8	0.63	0.60	0.60	0.56	0.60	0.59	0.63
	CDN-PGMS3-9	0.59	0.59	0.58	0.54	0.59	0.57	0.69
	CDN-PGMS3-10	0.57	0.56	0.66	0.53	0.61	0.59	0.65
	CDN-PGMS3-11	0.59	0.59	0.65	0.54	0.61	0.55	0.63
	CDN-PGMS3-12	0.63	0.60	0.64	0.56	0.60	0.54	0.66
	Mean	0.58	0.59	0.63	0.56	0.60	0.56	0.64
	Std. Dev.	0.028	0.020	0.031	0.034	0.014	0.019	0.021
	%RSD	4.87	3.39	4.98	5.99	2.35	3.40	3.25

PLATINUM GROUP ORE REFERENCE STANDARD: CDN-PGMS-3

Participating Laboratories:

(not in same order as listed in table of results)

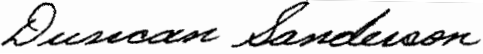
Acme Analytical Laboratories Ltd.
Assayers Canada Ltd., Vancouver
ALS Chemex Laboratories, North Vancouver
Eco-Tech Laboratory Ltd., Kamloops, B.C.
International Plasma Laboratories Ltd., Vancouver
Loring Laboratories Ltd., Calgary
TeckCominco Exploration Research Laboratory, Vancouver

Availability: Lots of 100g, 500g, 1 kg, 2 kg, or as per request.
Minimum order: 1 kg.


Legal Notice:

This certificate and the reference material described in it have been prepared with due care and attention. However CDN Resource Laboratories Ltd. or Barry Smee accept no 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.