



United States Geological Survey Certificate of Analysis

Disseminated Gold Ore, DGPM-1

DGPM-1 is a disseminated gold ore reference material which can be used to establish analytical accuracy for the analysis of gold in geologic samples. Material for the standard was collected from the Pinson Mine, which is located 40 miles northeast of Winnemucca, Nevada. Gold in the reference material is present as particles less than 0.5 micron in size and associated with pyrite and iron oxides.

Recommended values

Element or oxide concentrations are recommended if results from three or more independent laboratories using two or more independent analytical procedures are in statistical agreement.

Information values

Values are based on results from a minimum of two cooperating laboratories using the same or similar analytical procedures.

Recommended values					
Element	µg/g	±	Oxide	Wt %	±
Sb	14	1	Al ₂ O ₃	9.56	0.19
As	180	10	Fe ₂ O ₃	1.92	0.06
Au	0.730	0.060	K ₂ O	2.74	0.02
			SiO ₂	79.82	0.54

Information values					
Element	µg/g	±	Element	Wt %	±
W	76	10	CaO	0.22	0.04
			MgO	0.56	0.05

Denver, Colorado
April 3, 1995

Dr. Geoff Plumlee
U.S. Geological Survey
Central Region Mineral Team

Bibliography

Grimes, D.J., Stewart, K.C., Wilson, S.A., and Kretschmer, E.L., 1996, The characterization of USGS Gold Reference Standard, DGPM-1, U.S. Geological Survey Open-File Report 96-058, p. 13.

Glossary

± One standard deviation

Notes

Unless otherwise indicated total element concentrations are reported for material on an as-received basis, i.e., no drying.

Ordering Information

USGS reference materials (RMs) may be obtained directly from Dr. Stephen A. Wilson at the address or numbers listed below. The price for each bottle of RM is \$80.00 (U.S.) **except** DGPM-1 which is \$175.00 (U.S.). This cost includes all shipping and handling charges using normal mail delivery. Urgent requests for RMs should be initiated by FAX or e-mail. If required, overnight delivery is available with these charges added to the final bill.

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Payment Options

Domestic customers: Payment options include purchase order, check, money order, or credit card (Visa, Mastercard).

International customers: Payment on foreign orders may be made by any of the following:

- a. Banker's draft against an international bank,
- b. International money order,
- c. Credit card (Visa, Mastercard)

Payments for domestic or international orders using a credit card receive a 10% discount on the per bottle price.

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URL: http://minerals.cr.usgs.gov/geo_chem_stand/gold.pdf