Certificate of Analysis

MEG, LLC

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Au.22.03

Certified Reference Material

MEAN = 0.683 ppm Au
95% Confidence = 0.648 to 0.718

MEAN = 1.525 ppm Ag
95% Confidence = 1.315 to 1.735

Prepared By: MEG, LLC

Analyzed By: Ajeet Milliard, PhD

Manufactured for: MEG, LLC

Date of Certification: Thursday, December 15, 2022

Origin of Reference Material:

Reference material Au.22.03 was created from ore grade silty limestone material from the Santa Gertrudis deposit, Mexico.

This material is not intended to be matrix-matched to any specific ore lithology.

Method of Preparation:

96 kg of ore was jaw crushed and roll crushed where necessary.

Batch was comminuted to powder in a ceramic ball mill for 165 hours.

Sizing tests of the final product show greater than 95% pass -177um (-80 mesh).

The standard is packaged in 60 g envelopes, each envelope with a removable sticker-label.

Method of Analysis:

Homogeneity and charachterization tests were conducted at one lab to estimate trace element distributions by aqua regia digestion (0.5 gram) from each of 10 samples.

Ten samples each to 10 laboratories were fire assayed for gold and analyzed for silver by aqua regia and ICP-MS/OES on 30 gram subsamples, and these data were used to certify the material for gold and silver concentration. New fire assay crucibles were used.

Summarized Assay Results:

PROJECT: Au.22.03

GOLD Au reported in ppm (parts per million)

GOLD	Tra reported in ppin (pi	arts per minion)	,	
DATA POINTS (LAB AVERAGE DATA)			10
MEAN (LABS)				0.683
STANDARD DEV	VIATION (LABS)			0.018
CV (% RSD)				2.6
RANGE OF VAL	UES - HIGH			0.703
RANGE OF VAL	UES - LOW			0.653
95% CONFIDEN	ICE LIMITS	0.648	to	0.718

SILVER

Ag reported in ppm (parts per million)

DATA POINTS (LAB DATA)			7
MEAN (LABS)			1.52
STANDARD DEVIATION (LABS)			0.11
% RSD			6.9
RANGE OF VALUES - HIGH			1.65
RANGE OF VALUES - LOW			1.35
95% CONFIDENCE LIMITS	1.31	to	1.74

Statistical Procedures:

Acceptable assay limits are based on the results of 10 samples shipped to each of 10 laboratories.

Some labs assayed submitted samples twice, in different months, or different years.

The samples were submitted with other MEG standards in randomized order, so that as much as possible, real operating conditions were obtained from the participating laboratories. All of the data were used to determine an acceptable range, based on the mean and standard deviation of the "Lab Average Data". The acceptable reporting range is the "95% Confidence Limit", which is the mean ± 2 standard deviations. Other statistics are provided to help the user assign viable acceptance

Standards with an RSD (Relative Standard Deviation) of near or less than 5% are termed "Certified", while RSD's 5% to 15% are designated "Provisional". RSD's over 15% are "Informational".

Instructions and Recommendations for Use:

Submit the entire contents of one 60 g envelope in random locations in the submittal, approximately every 10-20 samples. Use of blanks (samples with "below detection" concentration of analyte) are also recommended, randomly placed every 30-40 samples.

The analytical request should be the same as that used for the round robin assays that generated this certificate.

Intended Use:

The standard material can be used to validate the analysis of samples from gold ores with a similar grade.

As a control sample in routine assay laboratory operations, it should behave within the limits as indicated statistically in this certificate of analysis. Its intended use is to monitor inter-laboratory and instrumental bias within these limits.

The recommended concentrations and limits for this material are based on multiple assays from several laboratories and reflects a consensus of the inherent chemical concentration. These values are a first attempt at a chemical characterization to which later data may be added as experience with the material increases. Later data may be added and recommended concentrations changed as experience with the material increases.

Slight variations in analytical procedures between laboratories will result in slight biases to the recommended statistical limits.

This standard material is not recommended for method development, nor instrumental calibration.

Handling Instructions:

The material is packaged in manila tin-top envelopes for easy open and close use. The material should be reblended just prior to use in the assay laboratory. This can be done with a micro-riffle splitter or rubber sheeting.

Simple agitation and shaking is not sufficient to rehomogenize prior to use.

Normal safety precautions for handling powders are recommended. The use of safety glasses, dust inhalation protection, gloves, and a laboratory coat are suggested.

Safety Notice:

A Material Safety Data Sheet (MSDS) is not required for this material. This material will not release or otherwise result in exposure to a hazaardous chemical, under normal conditions of use. Use regular precautions as for any work with fine powder material.

Legal Notice:

This certificate and the referenced material have been prepared with due care and attention. However, MEG, LLC and Ajeet Milliard, PhD., P.G., accept no liability for any decisions or actions taken following the use of this geochemical reference material.

Lab Assay Data Used to Calculate "True" Gold and Silver Value:

	Au (ppm)	Ag (ppm)
LAB 1	0.653	1.65
LAB 2	0.694	1.43
LAB 3	0.665	1.59
LAB 4	0.679	
LAB 5	0.688	1.50
LAB 6	0.696	
LAB 7	0.661	1.56
LAB 8	0.703	1.60
LAB 9	0.703	1.35
LAB 10	0.687	

Major Constituents as Oxides

Average of 10 samples: 4-acid, ICPMS (Total Digestion)

Raw Data:	Al%	Ca%	Fe%	K%	Mg%	Na%	P%
ICP/MS Data (n=10):	2.33	10.08	1.47	1.03	0.55	0.00	0.10
Conversion Factor:	1.8899	1.3992	1.4297	1.2046	1.6579	1.348	2.2916
	Al02	CaO	Fe2O3	K2O	MgO	Na2O	P2O5
% Oxide:	4.40	14.10	2.10	1.24	0.91	0.00	0.24

Raw Data:	S%	Ti%	Si%
ICP/MS Data (n=5):	0.08	0.01	-
Conversion Factor:	2.4953	1.6681	2.1392
	SO3	TiO2	SiO2
			estimated
% Oxide:	0.20	0.02	76.77

Participating Laboratories: Activation Labs, Ancaster Activation Labs, Kamloops ALS, Loughrea ALS, Vancouver Bureau Veritas-Inspectorate, Sparks Kappes Cassiday & Associates (Reno) McClelland, Reno MSA Labs (Langley) Intertek (Perth) SGS Labs (Burnaby) Certified By:

Ajeet Milliard, PhD.