



CERTIFIED
REFERENCE
MATERIALS



Accuracy that
leaves chance
in the dust

rocklabs.com



THE STANDARD IN CERTIFIED REFERENCE MATERIALS

Rocklabs is the world-leading producer of high-quality certified reference materials (CRMs) for the gold, silver, platinum, and palladium minerals industries. 'Blank' materials are also available, certified for silver and gold.

Used by laboratories and exploration companies worldwide, our reference materials are an accurate and reliable way to determine quality assurance and control management in conjunction with sample testing. CRMs (also known as laboratory standards), are pulverised rock with known mineral content. An independent statistician examines the data set, prior to a value being assigned. A Certificate of Analysis, which includes details of the production and characterisation of the reference material, is issued with all sachets and jars.

Our professional team of chemists, geologists and statisticians are on hand to advise on the use of reference materials and the analysis of results, to enable you to make better mining decisions.

Available in gold, silver, platinum, and palladium in 30, 50 and 100 gram sachets or 2.5 kg jars.

BENEFITS

- Low-cost investment for highly accurate results
- Industry standard testing and certification process
- Professional advice and support available from industry experts



CUSTOMISED REFERENCE MATERIALS

Can't find what you're looking for in our range? Contact us about custom CRMs produced from client supplied materials to match the geology of your project. we may be able to produce a custom reference material for you. Homogeneity and value assignment programs can be tailored to your needs.

The matrix matched material will be homogenized using our proven methods and technology. Packaging option can be sachets, 2.5kg jars, or larger pails or drums.

To get a quote, contact us at rocklabs.com.

ROCKLABS CERTIFICATION

Rocklabs products are manufactured under management systems that have been certified by Telarc to the following standards:

- ISO 9001:2015 Quality Management System
- ISO 14001:2015 Environmental Management System
- ISO 45001:2018 Occupational Health and Safety Management System

[View our certificates and specifications at rocklabs.com.](https://rocklabs.com)

[Safety data sheets are available for all products.](#)

OUR QUALITY IS GUARANTEED THROUGH OUR ROBUST PROCESSES - WE HAVE BEEN PRODUCING CERTIFIED REFERENCE MATERIALS FOR OVER 25 YEARS

STABILITY

The matrix that is used by Rocklabs to manufacture their CRMs is made from feldspar and basalt. These two naturally occurring rock types were selected because of their stability. They do not easily absorb or release water to the atmosphere at varying temperatures and humidities. If the matrix is stable in regard to weight changes, then the CRM will also be stable.

Every CRM produced undergoes vibration testing to ensure there is no settling effect. Select jars from the characterization set are randomly selected and vibrated to compaction. Samples are taken from successive layers to ensure no top to bottom gradation in the values is observed.

VALUE ASSIGNMENT

The analyte value is determined through our interlaboratory proficiency test, where samples are sent to typically 50, well performing laboratories around the world. The analytical results received are examined by an independent statistician and the data set is used to assign an analyte value.



HOMOGENEITY

Rocklabs prepare concentrates and blend them in a series of diluent steps in order to arrive at the final target concentration of the completed CRM. The aim is to achieve at least 50 particles of gold in every 30g portion that is taken for analysis.

Before candidate CRMs are sent away to collaborative laboratories for consensus testing, representative samples are sent to a highly regarded laboratory to assess their homogeneity. The samples are analysed together in one batch with every effort made to process them together and minimise method variability. Criteria is applied by an independent statistician to determine if the candidate CRM passes our rigorous homogeneity tests.



Worldwide support

Having our network of certified partners around the world means you'll have access to the latest Rocklabs™ equipment, parts, and certified reference materials no matter where you are.

Explore the full range of Rocklabs™ sample preparation equipment at rocklabs.com.



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