

Alfa-Lab LLP — A Network of Internationally Accredited Laboratories.

Comprehensive chemical and analytical testing and technological solutions for the mining industry.

Accuracy, proven by experience.

Reliability, proven over time.



since the 1990s

Experience in geological exploration and the mining industry (historical database of “Kvartz” enterprise).



4,000,000+

Samples successfully analyzed since 2016.



6

6 regional “key” facilities at customer sites and 2 main laboratories.



up to 0.001 mg

Accuracy of specialized balances for ultratrace concentrations.



Full cycle of operations: from primary analysis of geological samples to final product control (Dore alloy).

INTERNATIONAL RECOGNITION AND QUALITY STANDARDS.

ACCREDITATION ISO/IEC 17025:2017 (GOST ISO/IEC 17025-2019).



UKAS
United Kingdom
Accreditation
Service

UKAS (United Kingdom)

International status

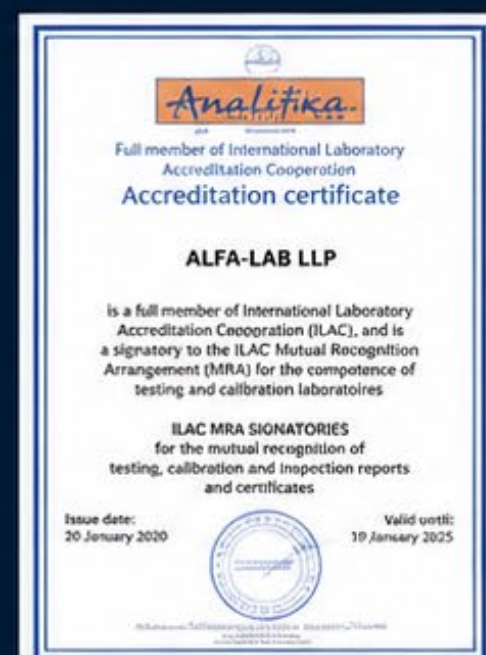


Analitika



«Analitika» & ILAC-MRA

Full member and
mutual recognition.



NCA (Kazakhstan):

National quality standard
Certificate No. KZ.T.10.2874
Laboratory, Karaganda



NCA (Kazakhstan):

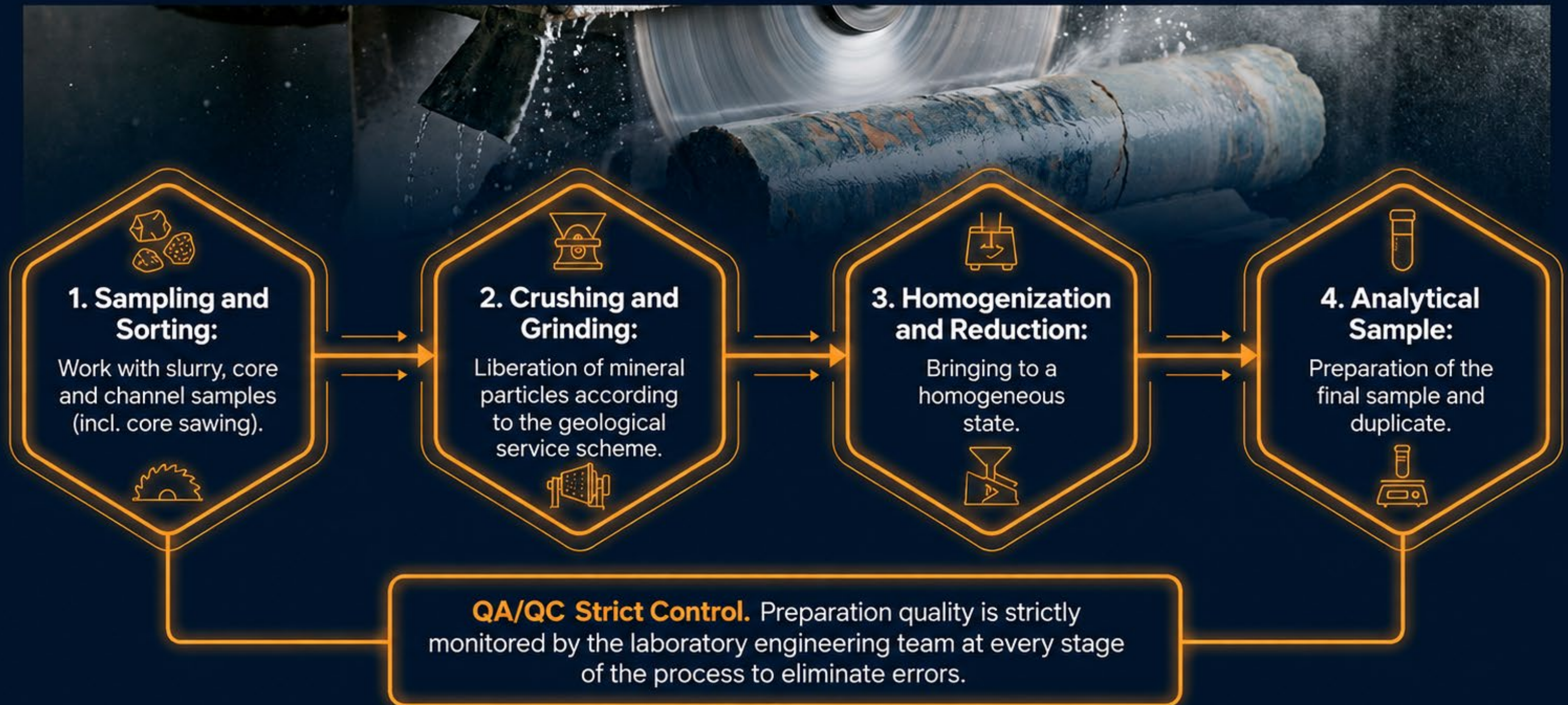
National quality standard
Certificate No. KZ.T.07.E0450
Laboratory, Semey



A guarantee of the legitimacy of your results for investors and government authorities for years to come.

Sample Preparation:

The Foundation of Accurate Analysis.



Analytical Testing for Any Challenge.

Method	Application and Sensitivity	Equipment
Fire Assay	✓ Precise determination of Au and Ag in complex/base metal ores (large sample weights from 50 g minimize sampling error).	(Classical Method)
Fire Assay with AAS Finish	✓ Very high sensitivity for low concentrations (gold determination from 0.05 g/t).	(Spectrometry Setup)
ICP-OES	✓ Simultaneous multi-element analysis (up to 70 elements) in solutions, ores and concentrates.	Agilent 5110, Thermo iCAP PRO XP DUO
AAS & IR Absorption	✓ High-precision express analysis of sulfur and carbon in 40 seconds.	LECO SC-144DR Gas Analyzer



Process Testing: Industrial Process Modeling.

Bottle Roll Test (Dynamic Cyanidation)

Purpose: To evaluate the amenability of ore to leaching in various size fractions.

Value: Rapid acquisition of primary data on the recovery of precious metals and accurate calculation of reagent consumption (cyanide, lime).



Column Test (Heap Leaching Simulation)

Purpose: To simulate leaching using percolation. Samples weighing from 50 kg are loaded into columns with a height of 2.5 m.

Value: Maximum approximation to the actual industrial process. Monitoring of the dynamics of metal content and pH in productive solution.



We also conduct gravity concentration (Knelson KC-MD 7.5, SKO-1) and flotation tests.

Laboratories in the Field: Fast Data, Zero Logistics.

Radical reduction of transportation costs and real-time access to analytical data right at the deposit site.

4. Operation:

Implementation of QA/QC standards and full technical support of laboratory operations.

3. Personnel:

Selection, training, and certification of specialized staff (from crushers to chemical engineers).



1. Design:

Development of a process flow diagram tailored to the specific type of ore from the customer.

2. Procurement:

Equipping sample preparation workshops and analytical laboratories with modern equipment.

Geographical Presence and Market Leaders' Trust



Ready to Discuss Your Project?

Get in touch with us to estimate the cost of flow studies, process tests, or laboratory setup and consulting.



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