

AGAT Laboratories

AGAT MiniTube Gas Sampling System

Compact Gas Sampling System for Compositional & Isotope Analysis

Used as reliable gas sampling container for energy, carbon capture and storage (CCS), and other gas sampling applications, the AGAT MiniTube is a compact, laboratory-validated gas sampling container. It's designed to preserve gas composition and stable isotope signatures during collection, transport, and analysis. Engineered by AGAT Laboratories for reliable sample integrity at every stage.

Technical Advantages

- Proven reliability design, using establish technology
- Maintains gas composition and isotope ratios during storage and transport
- Enhanced sample stability compared with head space sampling systems
- Third-party validated for long-term sample stability
- Compact and field-friendly design for rapid deployment
- Compatible with existing field sampling infrastructure (flow-through manifolds)
- Proven design supports the North American shipping standards

Specifications

Volume: 125 mL
Max Pressure: 100 psi
Sample Stability: >250 days
Not suitable for H_2S sampling

Complete Sampling & Analysis

AGAT Laboratories offers:

- Sampling containers
- Analytical testing
- Data interpretation support

Key Applications

Mud Gas Chemostratigraphy

Track subsurface changes and stratigraphic markers through high-resolution gas composition and isotopic data.

Production Allocation

Differentiate gas sources and quantify contributions in commingled production systems.

Fugitive Gas Identification & Fingerprinting

Support emissions investigations, regulatory compliance, and environmental assessments using robust isotopic fingerprints.

CCS Monitoring & Verification

Characterize injected and native gases for storage integrity and leakage detection.

Industrial & Academic Research

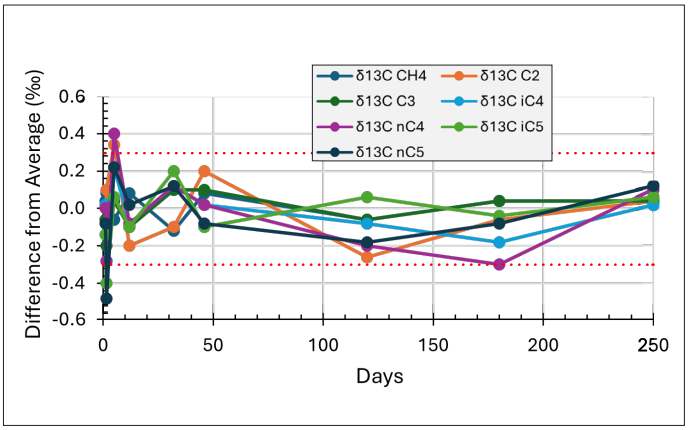
Suitable for controlled studies requiring stable, traceable gas samples.

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Long-term Gas Stability Study

Dolan Integration Group (DIG) conducted a three-month verification study of gas stability within AGAT MiniTubes. Results were consistent with internal studies indicating long-term sample stability for all hydrocarbon species. CO2 also exhibited consistent values over this three month period.

Day	$\delta^{13}C$ CH_4	$\delta^{13}C$ C2	$\delta^{13}C$ C3	$\delta^{13}C$ iC4	$\delta^{13}C$ nC4	$\delta^{13}C$ iC5	$\delta^{13}C$ nC5
1	-44.2	-31.4	-29.6	-28.9	-28.4	-31.3	-28.5
5	-44.3	-31.0	-29.5	-28.7	-28.0	-31.1	-28.2
120	-44.3	-31.6	-29.6	-29.0	-28.6	-31.1	-28.6
180	-44.2	-31.4	-29.5	-29.1	-28.7	-31.2	-28.5
250	-44.2	-31.3	-29.5	-28.9	-28.3	-31.1	-28.3
AVG	-44.2	-31.3	-29.5	-28.9	-28.4	-31.2	-28.4
STDEV	0.05	0.22	0.05	0.15	0.27	0.09	0.16



Minitube Manifold Station

Optimize your gas sampling workflow with our precision-engineered Minitube Manifold Station, designed for collecting high-quality isotopic gas samples.

This robust manifold seamlessly interfaces with industry-standard tubes, providing a secure, leak-free connection directly to your mud gas line. Engineered to perform reliably across variable field conditions and cold climates, it guarantees maximum sample integrity by preventing contamination. Its streamlined design minimizes setup time and simplifies collection, ensuring consistent, repeatable results from the field to the laboratory.



Contact Us

For pricing, availability, technical guidance and more, please contact your AGAT Client Services Representative or reach us at **info@agatlabs.com**.