Produce rapid results and defensible data

Agilent Dual Channel Blood Alcohol Analyzer

Blood alcohol concentration (BAC) directly correlates to impaired reaction times and judgment, so jurisdictions worldwide have established strict limits (mg/100 mL) for BAC while driving. To produce defensible BAC results, laboratories require reliable, accurate, and high-throughput methods.

Headspace GC analysis is the most widely used technique for determining ethanol concentration in blood. While system specifics may vary between jurisdictions, there is a need for BAC analyzers that comply with most lab requirements.

Meet your demands for high-throughput analysis and precise, accurate data

Agilent Dual Channel Blood Alcohol Analyzers combine the 7697A Headspace Sampler with an Agilent Intuvo 9000 GC system configured for dual-channel analysis using Agilent J&W DB-BAC1 Ultra Inert and DB-BAC2 Ultra Inert columns. This dual-channel capability differentiates ethanol from interferences caused by common metabolites—allowing you to confirm the presence of ethanol and determine its concentration. Other advantages include:

– Proven methods developed and tested by Agilent adding to Intuvo's ease-of-use innovations.

– Factory-configured and tested Intuvo 9000 GC with complete flow path, including Guard Chips, inlet splitter, and dual FIDs.

– Application-specific and factory tested column sets—DB-BAC1 Ultra Inert and DB-BAC2 Ultra Inert—capable of separating n-Propanol and t-Butanol used as internal standards.

– Factory-developed and tested method, results, and report files

Ready to go:

Every Dual Channel Blood Alcohol Analyzer reflects innovative technology and a stringent quality control process:

Factory
– System configuration and method development
– GC systems checkout confirmation
– Performance verification using application checkout mix

Delivery
– Instrument manual and checkout chromatogram
– DVD with method parameters and checkout data for out-of-the-box operation
– Includes method-specific consumables and re-ordering information

Installation
– Onsite performance verification executed by support engineer
– Optional application startup assistance

Trusted Answers

Rugged and reproducible BAC analysis that easily adapts to your standard operating procedures

Toxicology, forensic, and medical examiner labs follow well-defined procedures designed to generate data that can withstand cross-examination. Typically, daily calibrations, negative controls, ethanol controls, and analysis of a multicomponent mix are all required to verify system suitability.

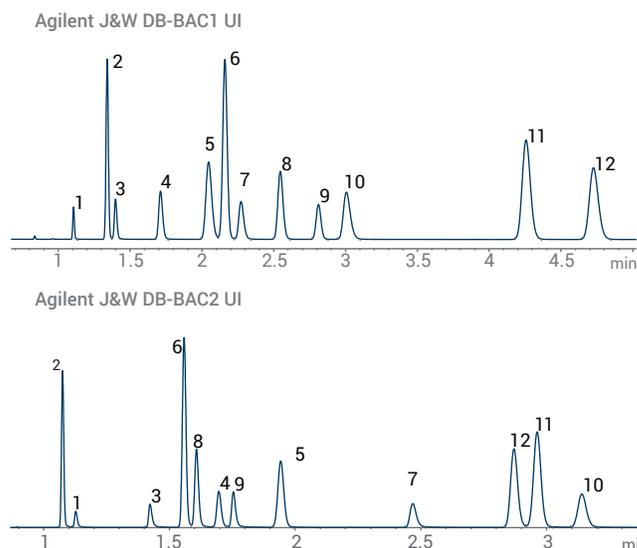Your lab can build its daily routine around Agilent's Dual Channel Blood Analyzers, which include:

- Intuvo flowpath control for reproducible splitting of the sample between DB-BAC1 UI and DB-BAC2 UI columns.

- Ferrule-free connections, color touch screen, Smart ID tags, self-diagnostics, and low energy impact.

Agilent J&W DB-BAC1 UI

Agilent J&W DB-BAC2 UI

Agilent Blood Alcohol checkout mix. The compounds elute at different retention times due to different column selectivities; therefore, two-channel analysis provides an extra confirmation of accuracy.

Compounds
1. Methanol	5. t-Butanol	9. Acetonitrile
2. Acetaldehyde	6. Propanal	10. 2-Butanol
3. Ethanol	7. n-Propanol	11. Ethyl Acetate
4. Isopropanol	8. Acetone	12. 2-Butanone

Ordering information:

To order the Agilent Intuvo 9000 GC Blood Alcohol Analyzer, specify:

Intuvo option #602 Dual Channel Blood Alcohol Analyzer

For more information about the Agilent Intuvo Blood Alcohol Analyzer, visit **www.agilent.com/chem/gc-analyzers**

Contact your local Agilent representative or Agilent authorized distributor at **www.agilent.com/chem/contactus**

Or call **800-227-9770** (in the U.S. or Canada)

Or visit **www.agilent.com/chem/gc-analyzers**

Agilent

Trusted Answers