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Quality management certifications



Warranty

ACS guarantees the integrity of the Alcohol Reference Solution up to the moment the inner seal is removed from the bottle or until the expiry date. The contents must be used immediately after it is opened.

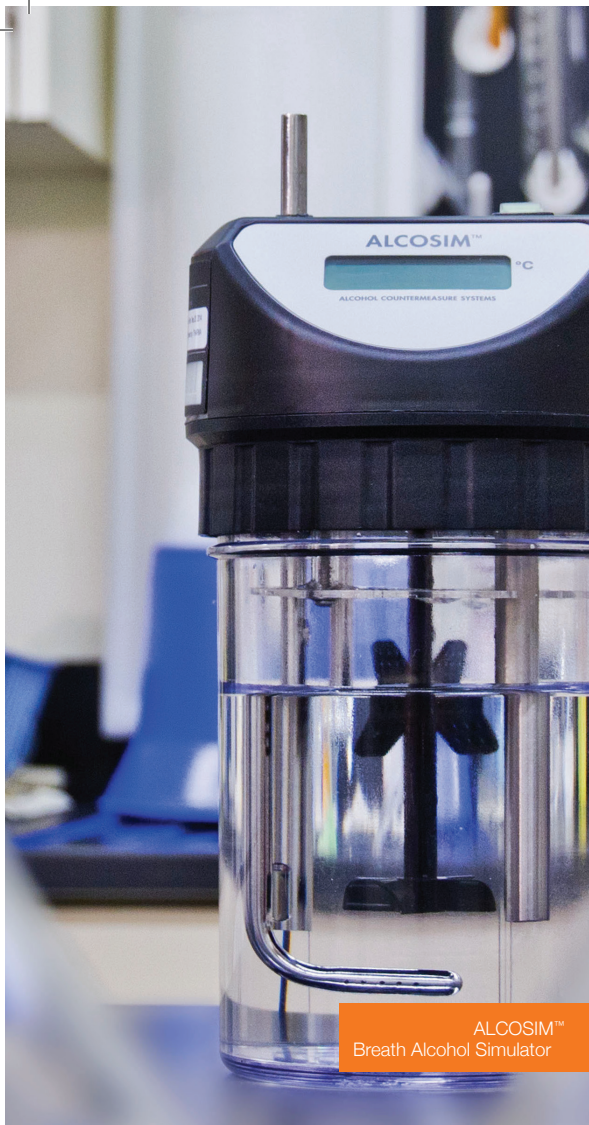
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Alcohol Reference Solution

Certified Reference Materials



20180920



Accredited
metrological
and forensic
laboratory

Alcohol Countermeasure Systems
ARS is a premixed alcohol solution for immediate use, eliminating the need to mix solution in the field. It is prepared for use in a breath alcohol simulator which is capable of controlling the solution temperature at 34 ± 0.02 °C. When air (breath) is bubbled through this solution, an equivalent BrAC is generated.

Preparation

Absolute ethyl alcohol (USP Grade) is mixed with distilled water to provide an analytical concentration predictive of the equivalent BAC. Solutions are prepared $\pm 2\%$ target value.

Analysis

Each batch of solution is independently analyzed by gas chromatography and is traceable to the NIST standard. A Certificate of Analysis is available upon request.

Bottling

The solution is bottled in high-density polyethylene bottles and closed with a poly seal cap. A neck seal is provided for integrity.

Labeling

Each batch of ARS is given a unique lot number and is further identified by the equivalent BAC, the date of manufacture and the expiry date for use. Each bottle and each box of six (6) bottles is so labeled.

Concentrations

Available in standard concentrations to provide alcohol breath test instruments with the following readings:

20, 30, 40, 50, 60, 80, 100, 110, 150, 200 and 400 mg/dL.

All ARS bottles and cases manufactured by ACS indicate the concentration of the premixed alcohol reference solution on their labels.

Your safety, our promise

ISO 17034, ISO/IEC 17025, ISO 9001, IATF 16949 and ISO 14001 certified, ACS ensures high quality design and manufacturing of all products and services while balancing our respect for the environment. Our commitment to safety, quality and customer service defines our industry leadership.



Alcohol Reference Solution (6 x 500 mL bottles)

mg/dL	g/dL	Product number
20	0.02	95-000302
30	0.03	95-000303
40	0.04	95-000304
50	0.05	95-000305
60	0.06	95-000306
80	0.08	95-000308
100	0.10	95-000310
110	0.11	95-000311
150	0.15	95-000315
200	0.20	95-000320
400	0.40	95-000340