

AVAILABLE THROUGH:



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## ALCOHOL REFERENCE SOLUTION

Alcohol Countermeasure Systems ARS is a premixed alcohol reference solution for immediate usage eliminating the requirement of mixing solution in the field. Prepared for use in a breath alcohol simulator which is capable of controlling the solution temperature at  $34 \pm 0.2^\circ\text{C}$ . When air (breath) is bubbled through this solution, an equivalent BAC is generated.

# ARS

## Alcohol Reference Solution

### Preparation

Absolute ethyl alcohol (USP Grade) is mixed with distilled water to provide an analytical concentration predictive of the equivalent BAC. A tolerance of 0.00 to +0.02 mg/mL is maintained.

### 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: 3.38 mg/mL, 0.02%, 0.03%, 0.04%, 0.05%, 0.08%, 0.10%, 0.11%, 0.15%, 0.20% and 0.40% BAC.

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

### Alcohol Reference Solution (6 x 500 mL bottles)

mg/dL	g/dL	Product number
3.38	N/A	95-000210
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

