

Alcohol Countermeasure Systems Corp 60 International Boulevard Toronto, Ontario M9W 6J2 CANADA acs-corp.com

## CERTIFICATE OF ANALYSIS

Alcohol Countermeasure Systems Alcohol Reference Solution Lot No: 201703A

Expiry Date: March 7, 2019

This solution was analyzed using the direct injection gas-chromatographic procedure coupled with the internal standard technique commensurate with forensic alcohol methodology.

A screening (pre-mix) analysis of the distilled water used in the preparation of this solution indicated that there were no volatile impurities present.

The target analytical concentration was 0.0605 - 0.062 gram/dL (wt/vol) ethyl alcohol in aqueous solution with an equivalent vapour alcohol concentration of 0.050 - 0.051 gram/210L when used in a breath alcohol simulator heated to  $34 \pm 0.2$ °C.

The solution was found to have an analytical concentration of 0.061 gram/dL (wt/vol) ethyl alcohol in aqueous solution with an equivalent vapour alcohol concentration of 0.051 g/210L when used in a breath alcohol simulator heated to  $34 \pm 0.2$ °C.

The solution is manufactured from distilled/de-ionized water and absolute ethyl alcohol (USP Grade). This lot contains 2500 bottles (of 500 mL each) of Alcohol Reference Solution.

nalysis: March 7, 2017

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