

# Fast Analysis of Alcohol in Urine Using Headspace Injection

# **Application Note**

Forensic Toxicology

#### Introduction

For the accurate analysis of alcohol in urine a fast, reliable, and precise analytical method is required. The Agilent PoraPLOT Q column provides the right selectivity for this method, as the ethanol peak elutes free from other volatile compounds that may interfere in such a matrix. See Application Note 5991-4408EN.

Technique: GC-capillary

Column: Agilent PoraPLOT Q fused silica PLOT, 10 m  $\times$  0.32 mm, 10  $\mu$ m (p/n CP7550)

Temperature: 100 °C

Carrier gas:  $N_2$ , 50 kPa (0.5 bar, 7 psi) Injector: Split 1:5, T = 250 °C Detector: FID, T = 250 °C Sample size: 250  $\mu$ L headspace

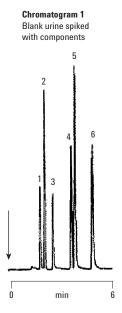
Courtesy: Christane Leslie Correa and Rosemary Custudio Pedroso

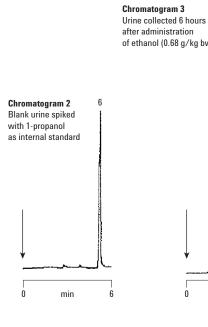
Departamento de Analises Clinicas e Toxicologicas,

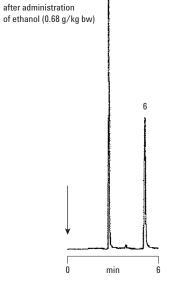
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#### Peak identification

1. Methanol	0.10 g/L
2. Acetaldehyde	0.03 g/L
3. Ethanol	0.10 g/L
4. Acetone	0.08 g/L
5. 2-propanol (isopropanol)	0.08 g/L
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6. 1-propanol	0.08 g/L

## **For More Information**

These data represent typical results. For more information on our products and services, visit our Web site at www.agilent.com/chem.

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