Fast Analysis of Alcohol in Blood Using Headspace Injection

Application Note
Forensics & Toxicology

Introduction

The accurate analysis of alcohol in blood is required to support claims for alcohol consumption during work or in traffic. A fast, reliable, and precise 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.

Technique: GC-capillary
Column: Agilent PoraPLOT Q fused silica PLOT, 10 m × 0.32 mm, 10 µm (p/n CP7550)
Temperature: 100 °C
Carrier gas: N₂, 50 kPa (0.5 bar, 7 psi)
Injector: Split 1:5, T = 250 °C
Detector: FID, T = 250 °C
Sample size: 250 µL headspace

Courtesy: Christane Leslie Correa and Rosemary Custudio Pedroso
Departamento de Analises Clinicas e Toxicologicas,
Faculdade de Ciencias Farmaceuticas da
Universidade de Sao Paulo
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.

www.agilent.com/chem

Agilent shall not be liable for errors contained herein or for incidental or consequential damages in connection with the furnishing, performance, or use of this material.

Information, descriptions, and specifications in this publication are subject to change without notice.

© Agilent Technologies, Inc., 2014
Printed in the USA
April 7, 2014
5991-4408EN