Buprenorphine in urine

Application Note

Forensic Toxicology

Authors

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Introduction

An Agilent VF-DA GC column with GC/MS analyzes a sample of buprenorphine at +/- 5 ng/mL.

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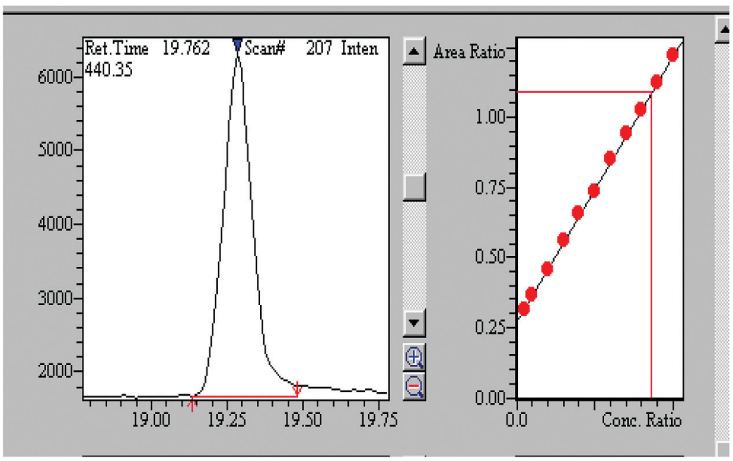
Conditions

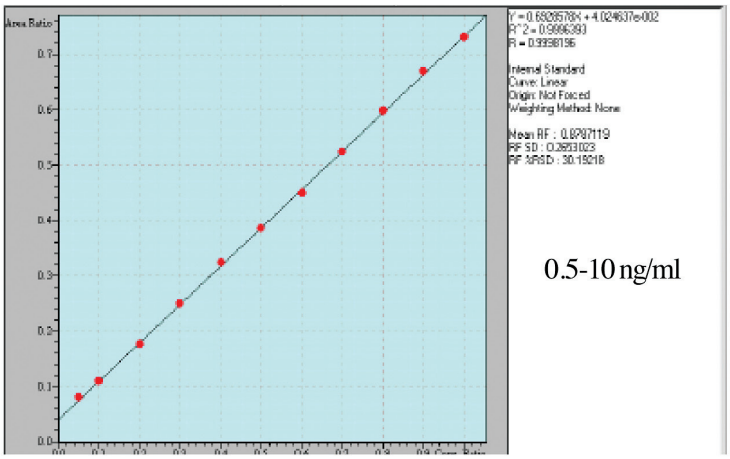
Technique	:	GC-capillary
Column	:	Agilent VF-DA, 0.20 mm x 12 m (df =optimized) (Part no. CP8964)
Temperature	:	70 °C, 1.2 min ⟶ 200 °C, 20 °C/min, ⟶ 27 0°C, 7 °C/min, ⟶ 320 °C, 20 °C/min
Carrier Gas	:	Helium, ca. 1.0 mL/min
Pressure Program	:	58.7 kPa, 2.2 min, ⟶ 97 kPa, 58 kPa/min ⟶ 132 kPa, 3 kPa/min ⟶ 180 kPa, 12 kPa/min
Injector	:	Splitless
Detector	:	MS in SIM mode
Sample Size	:	1 µL
Solvent	:	methanol
Derivtization	:	as penta fluoro propionates
Courtesy	:	Joerg Szigan - Labor Dr. Iembke, Dr. Lempfrid - Cologne

Peak identification

1. buprenorphine -PFP

Real Sample
Method detection limit: ± 5 ng/ml





Calibration curve 0.5-10 ng buprenorphine

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