

CoreFocus
Report
No.238

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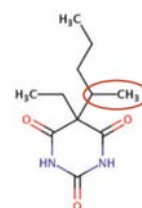
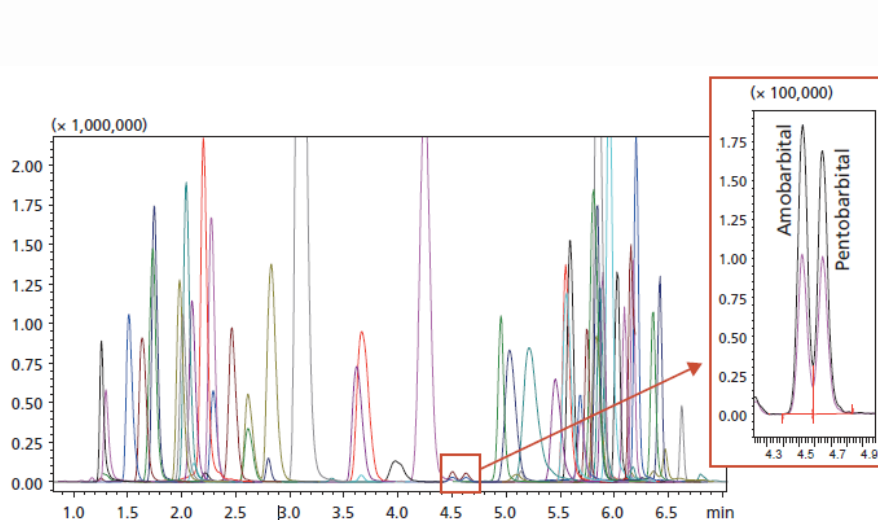
Reversed-phase

Shim-pack™ Series

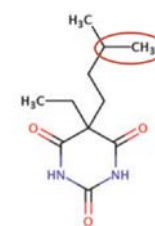
Shim-pack Velox™ Biphenyl

Separating the Structural Isomers of Amobarbital and Pentobarbital

Keywords: barbiturate derivatives



Amobarbital 5-ethyl-5-(3-methylbutyl)- 1,3-diazinane-2,4,6-trione



Pentobarbital 5-ethyl-5-pentan-2-yl-1,3-diazinane-2,4,6-trione

System	: Nexera™ UHPLC / LCMS™-8050
Column	: Shim-pack Velox Biphenyl (100 mm x 2.1 mm I.D., 2.7 μm), P/N : 227-32015-03
Mobile phase	: A) 0.15 mmol/L Ammonium fluoride in water B) Methanol
Time program	: B conc. 20 % (0 min) → 48 % (1.5 min) → 53 % (4 min) → 100 % (6 min - 7.5 min) → 20 % (7.51 min - 9.5 min)
Flow rate	: 0.5 mL/min
Column temp.	: 30 °C
Sample preparation	: Enzymatically hydrolyzed human urine was spiked with target compounds between 10 - 1000 % of the required cut off concentration. Samples were subsequently diluted 5x with 0.1 % formic acid.

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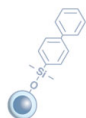
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