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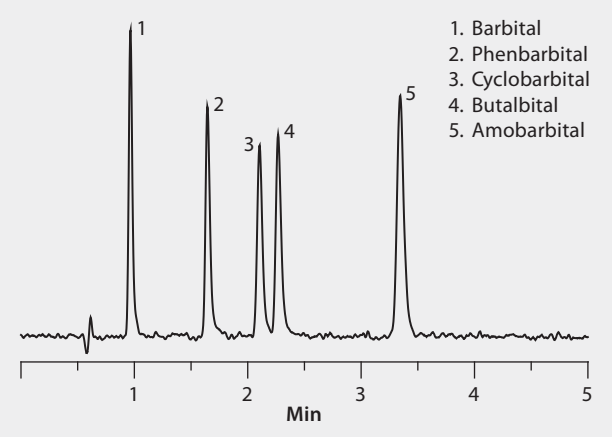
UHPLC/MS Analysis of Barbiturates on Titan™ C18

Barbiturates are commonly abused and among the most widely tested compounds in clinical, forensic, or therapeutic drug monitoring applications. Shown here is the rapid, efficient separation of a set of barbiturates on a Titan C18, 1.9 µm UHPLC column. Highest grade UHPLC-grade solvents were used to supply low background interference and low particulate contamination for robust, trouble-free operation. Cerilliant and Sigma-Aldrich reference standards provided reliable identification and quantification.

market focus	Clinical; Forensics and Toxicology; Pharmaceutical (small molecule)
column	Titan C18, 10 cm x 2.1 mm I.D., 1.9 µm particles (577124-U)
mobile phase	[A] 0.1% ammonium acetate (not adjusted); [B] acetonitrile; (70:30, A:B)
flow rate	0.4 mL/min
pressure	6796 psi (468 bar)
column temp.	35 °C
detector	ESI (-) MS TIC MRM
injection	1 µL
sample	1000 ng/ml in mobile phase
Application No.	G006137



Related Products

analytical column
Titan™ C18 UHPLC Column, 1.9 micron (Supelco 577124-U)
mobile phase component
Acetonitrile (Fluka 14261)
Ammonium acetate (Fluka 14267)
standard
Amobarbital solution (Cerilliant A-020)
Barbital (Sigma B0375)
Barbiturate Mix-5 solution (Cerilliant B-041)
Butalbital solution (Cerilliant B-006)
Phenobarbital solution (Cerilliant P-008)