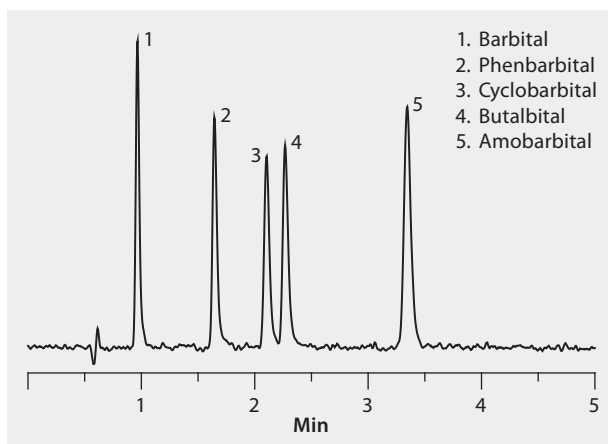


UHPLC/MS Analysis of Barbiturates on Titan™ C18

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](#))

Barbitital ([Sigma B0375](#))

Barbiturate Mix-5 solution ([Cerilliant B-041](#))

Butalbital solution ([Cerilliant B-006](#))

Phenobarbital solution ([Cerilliant P-008](#))