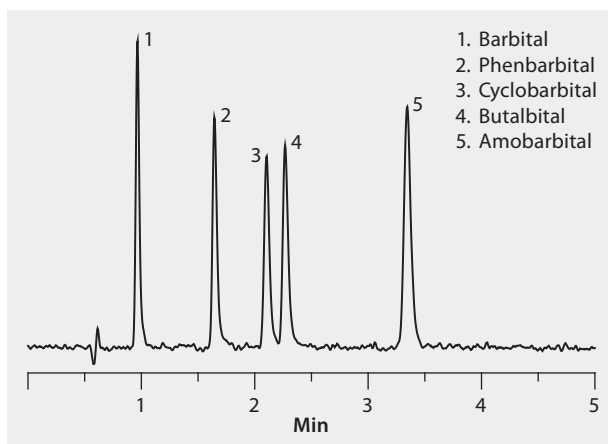


## UHPLC/MS Analysis of Barbiturates on Titan™ C18

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](#))