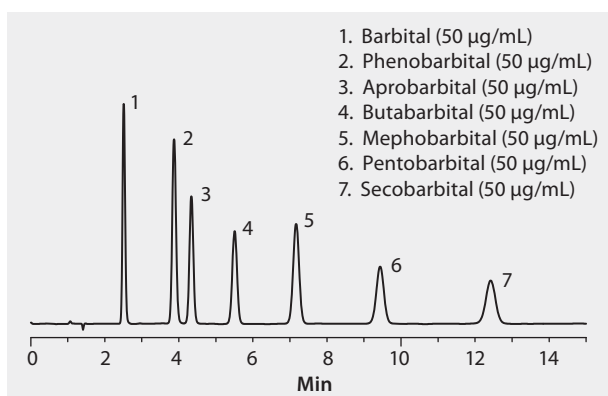


## HPLC Analysis of Barbiturates on Ascentis® C18

Barbiturates are commonly abused and among the most widely tested compounds in clinical, forensic, or therapeutic drug monitoring applications. Shown here is the baseline separation of a set of barbiturates on an Ascentis C18 column. Highest grade HPLC 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 ..... Forensics and Toxicology; Pharmaceutical (small molecule)  
 column ..... Ascentis C18, 15 cm x 4.6 mm I.D., 5 µm particles (581324-U)  
 mobile phase ..... [A] methanol; [B] water (50:50, A:B)  
 flow rate ..... 1.0 mL/min  
 column temp. .... 35 °C  
 detector ..... UV, 214 nm  
 injection ..... 10 µL  
 sample ..... as indicated in 65:35 water:methanol  
 Application No. .... [G002877](#)



### Related Products

- analytical column  
 Ascentis® C18 HPLC Column ([Supelco 581324-U](#))  
 standard  
 Aprobarbital ([Sigma A7023](#))  
 Barbitital ([Sigma B0375](#))  
 Barbiturate Mix-5 solution ([Cerilliant B-041](#))  
 Butabarbital solution ([Cerilliant B-024](#))  
 Mephobarbital ([Fluka 1386000](#))  
 Pentobarbital solution ([Cerilliant P-010](#))  
 Phenobarbital solution ([Cerilliant P-008](#))  
 Secobarbital solution ([Cerilliant S-002](#))