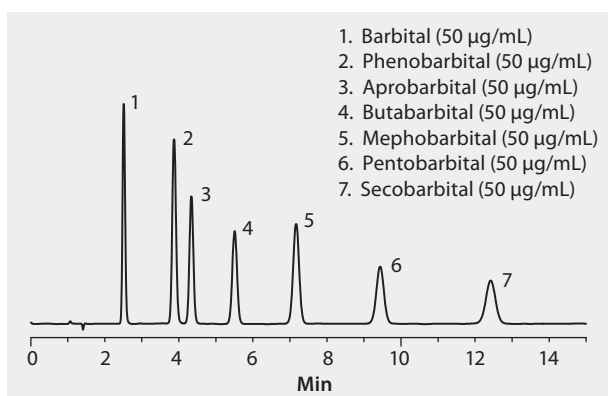


HPLC Analysis of Barbiturates on Ascentis® C18

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](#))