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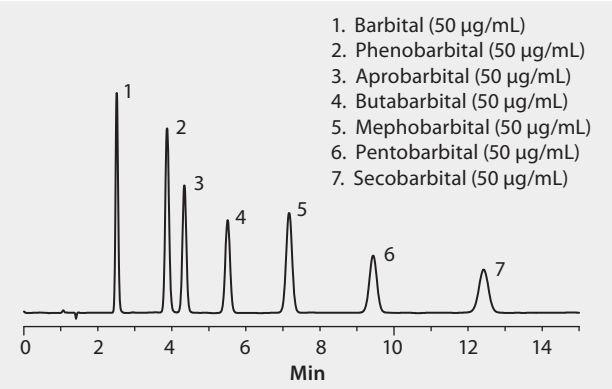
HPLC Analysis of Barbiturates on Ascentis® C18

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)
Barbital (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)