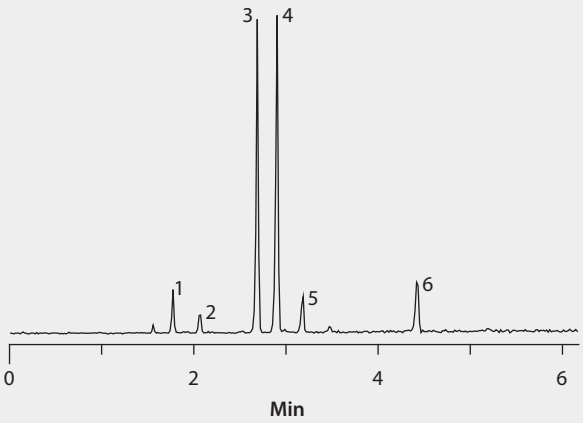
LC/MS/MS Analysis of Testosterone and Metabolites on Ascentis® Express C18

An Ascentis Expres F5 column provided rapid, baseline resolution of testosterone and metabolites. Fluka LC-MS Ultra CHROMASOLV solvents were used to supply low background interference and low particulate contaminants for robust, trouble-free operation. Cerilliant CRMs provided reliable identification and quantification.

market focus	Clinical
column	Ascentis Express C18, 5 cm x 2.1 mm I.D., 2.7 µm particles (53822-U)
mobile phase	[A] 5 mM ammonium formate water pH 4.0 formic acid; [B] 0.1% formic acid acetonitrile
gradient	10 to 70% B in 5 min; held at 70% B for 3 min
flow rate	0.6 mL/min
pressure	3698 psi (255 bar)
column temp.	35 °C
detector	MS, ESI(+), TIC, m/z 100-1000
injection	5 µL
sample	1000 ng/mL in 40:60 (water:methanol)
Application No.	G005882

1. Testosterone glucuronide
2. 5α-Dihydrotestosterone glucuronide
3. Testosterone
4. 17α-Methyltestosterone
5. 5α-Dihydrotestosterone
6. 6β-Hydroxytestosterone



Related Products

analytical column
Ascentis® Express C18, 2.7 Micron HPLC Column (Supelco 53822-U)
mobile phase component
Ammonium formate (Fluka 14266)
Formic acid (Fluka 14265)
Methanol (Fluka 14262)
Water (Fluka 14263)
standard
5α-Dihydrotestosterone (DHT) solution (Cerilliant D-073)
6β-Hydroxytestosterone solution (Cerilliant H-059)
17α-Methyltestosterone solution (Cerilliant M-906)
Testosterone solution (Cerilliant T-037)