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

An Ascentis Express 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.

- **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:** From 0% B 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

**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)

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