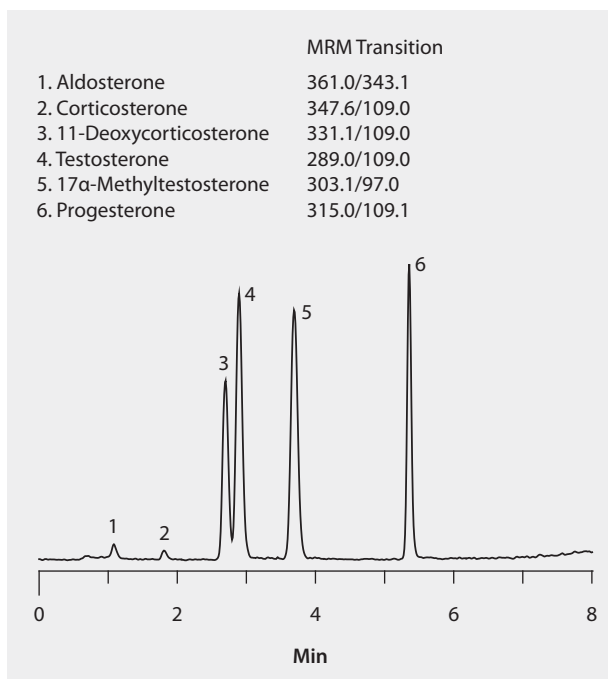


## LC/MS/MS Analysis of Steroid Hormones in Plasma on Ascentis® Express C18 after Sample Prep using HybridSPE®-Phospholipid

This application shows the separation of steroid hormones in plasma using LC/MS/MS. HybridSPE-Phospholipid removed endogenous phospholipids and precipitated proteins, thereby allowing rapid, sensitive analysis by LC/MS/MS using an Ascentis Express C18 column. 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  
 SPE tube/cartridge ..... HybridSPE®-Phospholipid, 96-well plate, 50 mg/well (575656-U)  
 sample addition ..... To each well add 100 µL of plasma followed by 300 µL of precipitation solvent (1% formic acid or 0.5% citric acid in acetonitrile). (Agitate via vortex for 4 minute, place on vacuum manifold and apply 10" Hg vacuum for 4 minutes. Collect filtrate and analyze directly.)  
 column ..... Ascentis® Express C18, 10 cm x 2.1 mm I.D., 2.7 µm particles (53823-U)  
 gradient ..... 60% B for 3 min, 60% B to 95% B in 5 min, held at 95% B for 2 min  
 mobile phase ..... [A] 5 mM ammonium formate pH 4.0 with formic acid; [B] methanol  
 flow rate ..... 0.3 mL/min  
 column temp. .... 50 °C  
 detector ..... ESI+, MRM  
 injection ..... 2 µL  
 Application No. .... G005895



**Related Products**

- analytical column**  
Ascentis® Express C18, 2.7 Micron HPLC Column ([Supelco 53823-U](#))
- mobile phase component**  
Ammonium formate ([Fluka 14266](#))  
Formic acid ([Fluka 14265](#))  
Methanol ([Fluka 14262](#))  
Water ([Fluka 14263](#))
- SPE tube or plate**  
HybridSPE®-Phospholipid ([Supelco 575656-U](#))
- standard**  
Aldosterone solution ([Cerilliant A-096](#))  
Corticosterone solution ([Cerilliant C-117](#))  
17α-Methyltestosterone solution ([Cerilliant M-906](#))  
Progesterone solution ([Cerilliant P-069](#))  
Testosterone solution ([Cerilliant T-037](#))