

# Prednisolone, Prednisone, Cortisol and Cortisone in Serum by LC-MS/MS

**ACE**<sup>®</sup>  
Ultra-inert  
UHPLC & HPLC Columns

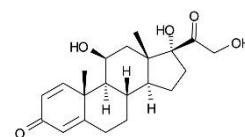
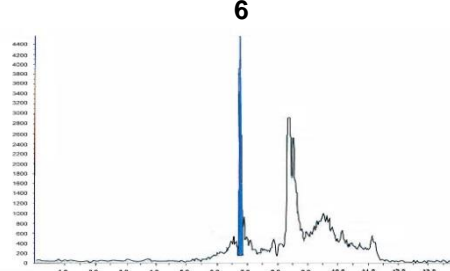
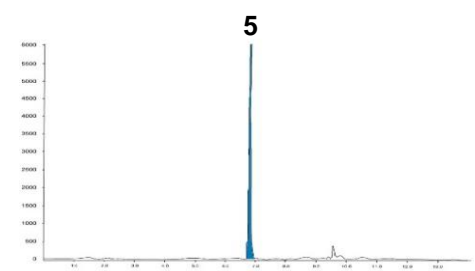
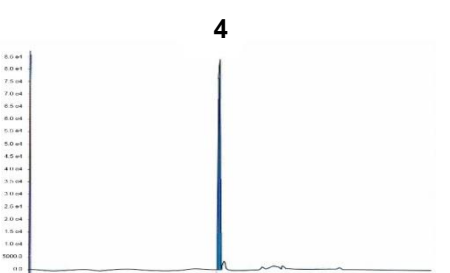
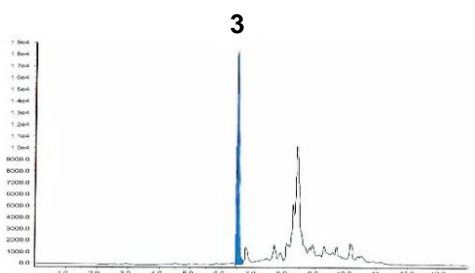
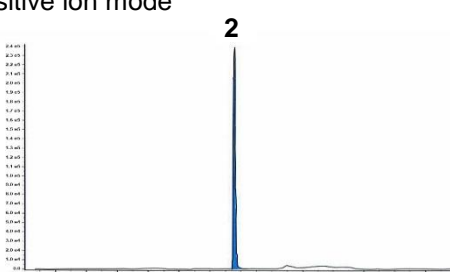
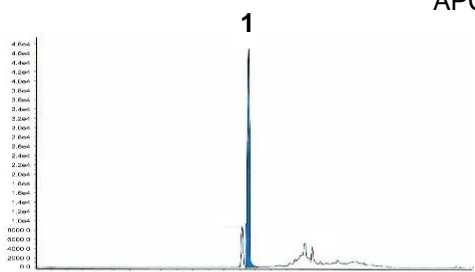
Application #AN2690

## Conditions

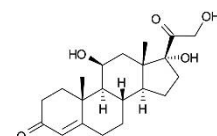
Column: ACE Excel 2 C18  
Dimensions: 100 x 2.1 mm  
Part Number: EXL-101-1002U  
Mobile Phase: A: 4 mM ammonium acetate in H<sub>2</sub>O  
B: 0.2% (v/v) formic acid in MeOH

Time (mins)	%B
0.00	30
0.25	30
3.90	70
6.00	70
6.01	95
7.00	95
7.01	100

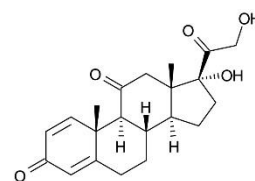
Flow Rate: 0.2 mL/min  
Injection: 50 µL  
Temperature: 50 °C  
Detection: Applied Biosystems 5000 MS/MS  
APCI in positive ion mode



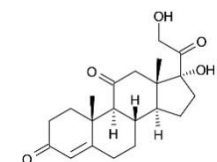
1. Prednisolone  
(*m/z* 361.5 → 147.1)



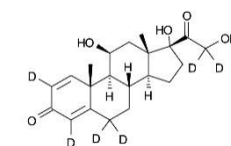
2. Cortisol  
(*m/z* 363.5 → 121.3)



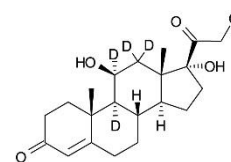
3. Prednisone  
(*m/z* 359.4 → 147.1)



4. Cortisone  
(*m/z* 361.5 → 163.3)



5. Prednisolone-d6 (IS)  
(*m/z* 367.4 → 150.3)



6. Cortisol-d4 (IS)  
(*m/z* 367.3 → 331.3)

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Columns