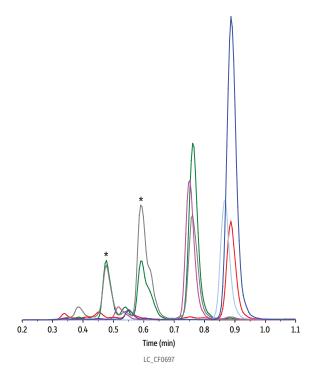
Cortisol and Cortisone in Extracted Female Human Urine on Raptor Biphenyl by LC-MS/MS



Peaks	tr (min)	Precursor Ion	Product Ion	Product Ion
1. Cortisol-d4	0.75	367.4	121.0	-
2. Endogenous cortisol	0.76	363.3	120.9	91.1
3. Cortisone-d8	0.88	369.4	167.9	-
4. Endogenous cortisone	0.89	361.3	163.2	91.0
*Isobaric matrix peaks				

Raptor Biphenyl (cat.# 9309A52) 50 mm x 2.1 mm ID Column Dimensions:

2.7 μm 90 Å Particle Size:

Pore Size:

Guard Column: Raptor Biphenyl EXP guard column cartridge 5 mm, 2.1 mm ID, 2.7 µm (cat.# 9309A0252)

Temp.: Standard/Sample

Diluent: Mobile phase A

Calculated concentration is 105.1 ng/mL and 135.9 ng/mL for cortisol and cortisone, respectively Conc.: 10 μL

Inj. Vol.: Mobile Phase

Water, 0.1% formic acid

B: Acetonitrile, 0.1% formic acid

Time (min)	Flow (mL/min)	%A	%B
0.00	0.6	70	30
1.00	0.6	70	30
1.01	0.6	0	100
1.50	0.6	0	100
1.51	0.6	70	30
3.00	0.6	70	30

Max Pressure: 400 bar Detector MS/MS ESI+ Ion Mode: Mode: MRM Instrument
Sample Preparation

- 1. Centrifuge female human urine for 5 min at 4500 rpm, 10 °C. 2. Aliquot 380 µL supernatant. Add 20 µL each of internal standard solution (1 µg/mL in methanol).
- 3. Load 200 μL of sample on to ISOLUTE SLE+ 200 μL supported liquid extraction plate (part# 820-0200-P01).
- 4. Apply a pulse of vacuum to initiate flow.
- 5. Wait 5 min for sample to completely absorb.
 6. Extract samples with 1 mL of MTBE. Allow solvent to flow for 5 min under gravity. Apply vacuum for 10-30 sec to complete elution.
- 7. Evaporate extracts to dryness under a stream of nitrogen.
- 8. Reconstitute in 200 μL mobile phase A prior to analysis.
- 9. Vortex to mix.

