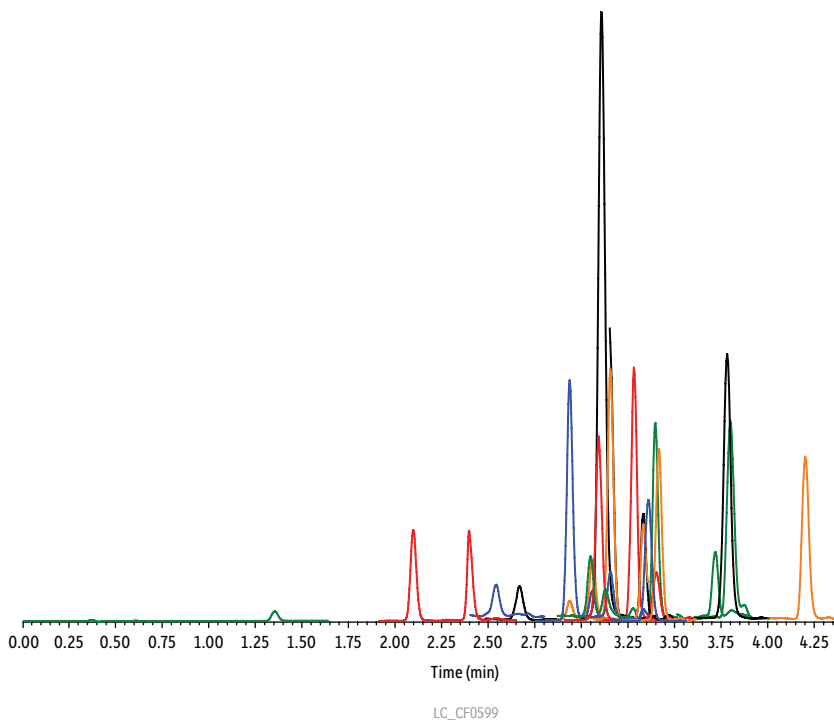


Steroids in Serum on Raptor™ Biphenyl by LC-MS/MS



Peaks	tr (min)	Conc. (ng/mL)	Precursor Ion	Product Ion	Product Ion
1. Estriol	1.44	100	289.1	107.0	253.2
2. Cortisol	2.11	50	363.2	121.0	327.2
3. 17β-Estradiol	2.45	50	255.3	159.1	133.1
4. 17α-Hydroxypregnenolone	2.60	100	315.2	297.2	159.2
5. Aldosterone	2.68	50	361.4	315.2	157.2
6. 11-Deoxycortisol	2.95	50	347.3	97.1	109.1
7. Corticosterone	3.07	50	347.4	329.2	121.1
8. Estrone	3.07	50	271.2	253.2	133.1
9. Boldenone	3.11	25	287.2	121.0	135.0
10. Epitestosterone	3.16	25	289.2	109.2	97.1
11. Dehydroepiandrosterone (DHEA)	3.16	50	289.1	253.1	271.1
12. 17α-hydroxyprogesterone	3.30	50	331.2	97.0	109.0
13. Testosterone	3.35	25	289.2	97.0	109.0
14. 17β-trenbolone	3.36	50	271.2	253.1	199.0
15. 17α-Methyltestosterone	3.41	25	303.2	97.0	109.0
16. 5α-Dihydrotestosterone (DHT)	3.41	50	291.2	255.2	159.2
17. Nandrolone	3.42	50	275.1	109.0	257.1
18. 25-Hydroxy vitamin D3	3.71	100	383.3	365.3	257.2
19. Androstenedione	3.79	25	287.1	97.0	109.0
20. 11-Deoxycorticosterone	3.81	25	331.2	97.1	109.1
21. Progesterone	4.21	25	315.2	97.0	109.0

Conc. listed is the final concentration following sample preparation.

Column Raptor™ Biphenyl (cat.# 9309A12)
Dimensions: 100 mm x 2.1 mm ID
Particle Size: 2.7 μm
Guard Column: Raptor™ Biphenyl EXP® guard column cartridge 5 mm, 2.1 mm ID, 2.7 μm (cat.# 9309A0252)
Temp.: 35 °C
Sample Conc.: 500 μL of mobile phase B was added to 250 μL of fortified beagle serum (100-400 ng/mL). The sample was vortexed for 5 minutes and centrifuged at 4,000 rpm for 10 minutes (10 °C). 100 μL of supernatant was diluted in 100 μL of water. Final dilution factor was 4x.
Inj. Vol.: 2 μL
Mobile Phase
A: Water + 0.1% formic acid
B: Methanol + 0.1% formic acid

Time (min)	Flow (mL/min)	%A	%B
0.00	0.6	50	50
4.00	0.6	0	100
4.50	0.6	0	100
4.51	0.6	50	50
6.50	0.6	50	50

Detector MS/MS
Ion Mode: ESI+
Instrument UHPLC