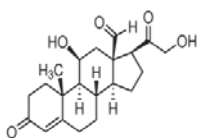
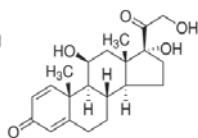


Celerity Deluxe DVB SPE Cartridges

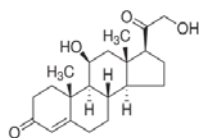
Compounds :



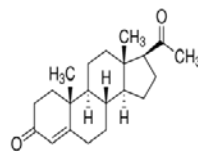
Aldosterone



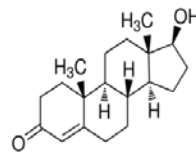
Prednisolone



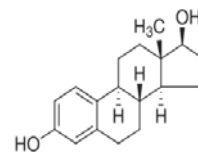
Corticosterone



Progesterone



Testosterone



Estradiol

SPE EXTRACTION METHOD:

(Celerity Deluxe cartridge, 30 mg/ 1 cc, Catalog #SYCY6030-01)

Load:

100 μ L of spiked human plasma



Wash:

1 mL of 20% acetonitrile in water



Elute:

1 mL of acetonitrile



Evaporate and Reconstitute:

100 μ L of 40% acetonitrile in water

HPLC METHOD:

Column:

Orochem Reliasil C18 HPLC column 4.6x50 mm, 3 μ m.

Part number:

R3BI-101

Mobile phase:

A: 0.1% formic acid in water
B: 0.1% formic acid in ACN

Gradient:

Initial 25% B for 1 min, then gradient to 75% B at 7 min, and hold 1 min

Flow rate:

1.0 mL/min

Injection volume:

20 μ L

Retention Time:

Aldosterone – 2.5 min
Prednisolone – 2.8 min
Corticosterone – 3.7 min
Progesterone – 6.6 min
Testosterone – 4.8 min
Estradiol – 4.6 min

MS/MS CONDITIONS:

Mass spectrometer: API3000

Ion source: Turbo Ionspary

Polarity: Positive

IS: 4000

Temp. 500

DP: 30

CAD: 12

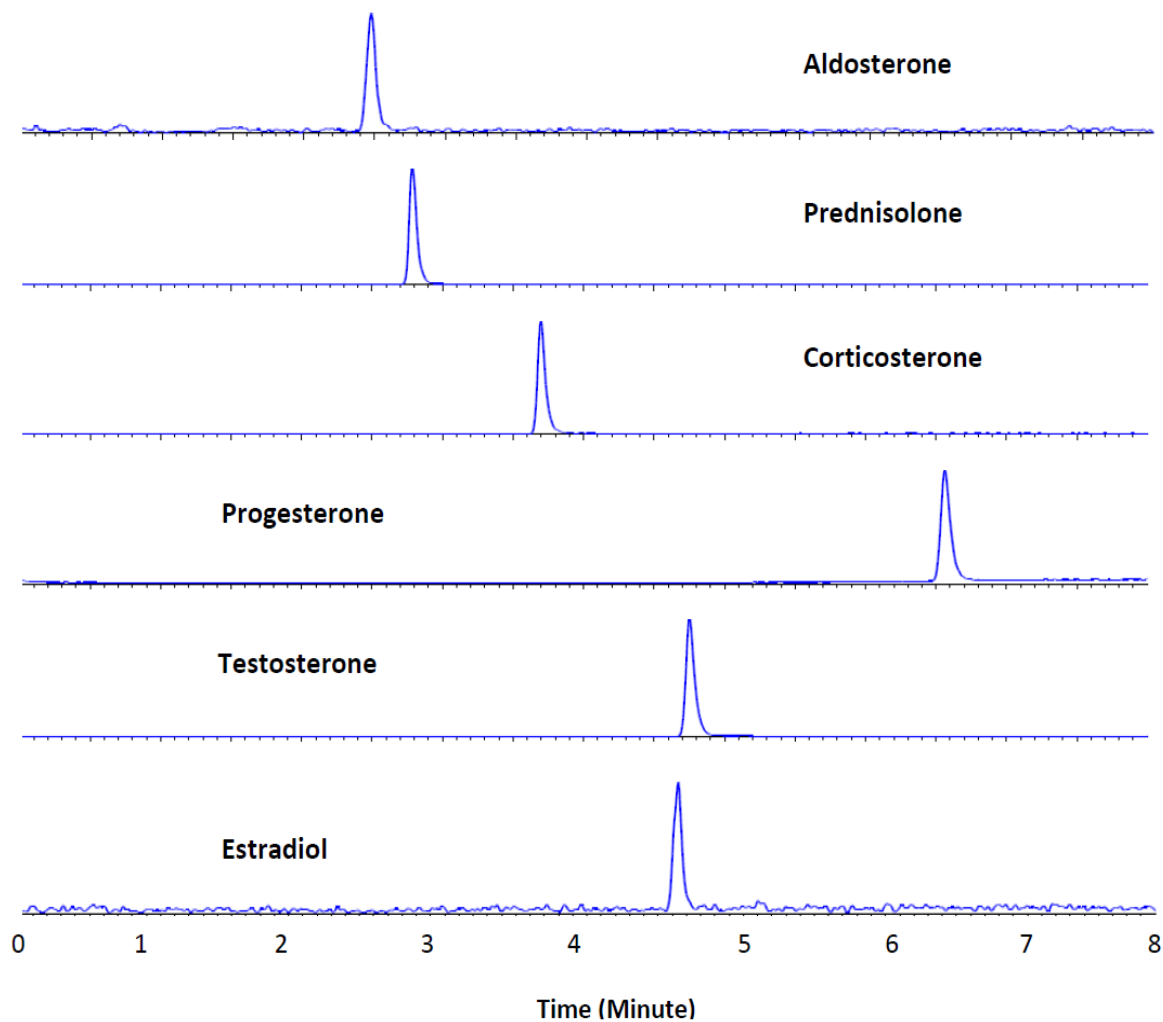
EP: 10

CE: various by analytes

CXP: 10

Scan mode: MRM

Steroids	Quantifier ions	Qualifier ions
	Q1/Q3	Q1/Q3
Estradiol	273.3/107	273.3/135.2
Testosterone	289.2/109.1	289.2/97
Progesterone	315.3/109.1	315.3/97
Corticosterone	347.2/121	347.2/329.5
Prednisolone	361/147.2	361/307.4
Aldosterone	361/315.2	361/299.7



RESULTS:

Chemicals	Estradiol	Testosterone	Progesterone	Corticosterone	Prednisolone	Aldosterone
Recovery(%)	106	105	103	104	99	87
CV(%)	9	8	7	9	9	17