

Supplemental Table S1. LC-MS/MS Assay Parameters. Deuterium labeled 4-androstenedione (A4-D₆), corticosterone (Cort-D₈), estradiol (E2-D₅), pregnenolone (P5-D₄), and testosterone (T-D₅) were used for internal standard as described in Method and Materials.

Method	Steroid Name	FW	Molecular Ion (ES ⁺)	Transition Ion Quantified (ES ⁺)	Retention Time (min)	Internal Standard	LLQ (ng/mL)	ULQ (ng/mL)
1	Androstenediol	290.44	273.05	255.15	9.6	T-D ₅	0.2	200
	Androstenedione	286.40	287.10	96.90	11.2	T-D ₅	0.05	50
	Corticosterone	346.46	347.05	329.20	7.9	Cort-D ₈	0.2	200
	Cortisol	362.46	363.10	327.20	5.9	Cort-D ₈	10	10,000
	DHEA	288.43	289.10	271.10	11.1	T-D ₅	1	1,000
	11-Deoxycorticosterone	330.46	331.05	108.95	10.6	T-D ₅	0.05	50
	11-Deoxycortisol	346.46	347.10	109.00	8.2	Cort-D ₈	0.05	50
	17 α -Hydroxyprogesterone	330.22	331.10	109.00	11.3	T-D ₅	0.05	50
	20 α -Hydroxyprogesterone	316.47	317.05	108.95	12.7	P5-D ₄	0.05	50
Testosterone	288.43	289.00	96.90	10.1	T-D ₅	0.05	50	
2	Dihydrotestosterone	290.44	306.20	255.10	14.4	A4-D ₆	0.10	500
	11OHA	302.42	333.00	315.20	9.5	A4-D ₆	1	2000
	7 α -Hydroxy-DHEA	304.43	320.20	270.10	6.5	A4-D ₆	0.02	100
	16 α -Hydroxy-DHEA	304.43	320.20	284.10	8.8	A4-D ₆	0.10	500
	17 α -Hydroxypregnenolone	332.48	348.30	330.00	12.5	A4-D ₆	0.1	500
	Pregnenolone	316.48	332.35	300.30	18.2	A4-D ₆	0.02	100
	Progesterone	314.47	345.30	124.00	17.5	A4-D ₆	0.02	100
3	Estradiol	272.39	506.00	170.95	5.8	E2-D ₅	0.002	0.2
	Estrone	270.37	504.00	170.95	6.7	E2-D ₅	0.005	0.2

Supplemental Table S2. LC-MS/MS Assay Performance Statistics

Steroid Name	Average % Deviation of QC Standards			Standard Curve Correlation
	Low QC	Mid QC	High QC	r ²
Androstenediol	22.3	4.0	-2.9	0.9985
Androstenedione	13.9	11.5	12.4	0.9970
Corticosterone	0.3	-3.3	-1.0	0.9986
Cortisol	-3.2	12.8	19.0	0.9987
DHEA	4.4	3.8	2.8	0.9984
11-Deoxycorticosterone	3.4	-2.0	-4.2	0.9996
11-Deoxycortisol	-1.0	-2.7	4.3	0.9987
17 α -Hydroxyprogesterone	1.1	9.3	14.8	0.9988
20 α -Hydroxyprogesterone	19.6	23.3	26.2	0.9997
Testosterone	10.3	6.4	4.5	0.9985
Aldosterone	19.1	0.9	7.2	0.9993
Dihydrotestosterone	6.7	-3.4	-4.2	0.9907
11OHA	9.2	24.2	18.4	0.9993
7 α -Hydroxy-DHEA	26.0	23.1	18.1	0.9967
16 α -Hydroxy-DHEA	9.3	-2.4	-8.0	0.9989
17 α -Hydroxypregnenolone	-19.4	-22.0	-22.3	0.9990
Pregnenolone	-8.8	-7.7	-6.0	0.9994
Progesterone	-29.0	-31.3	-29.1	0.9983
Estradiol	-33.2	-16.1	-3.6	0.9980
Estrone	-33.2	-25.3	6.9	0.9970