

Table S1. List of steroid and steroid glucuronide tested.

Compound	Vendor	Catalog number
d3-estradiol-3 α -glucuronide	Toronto Research Chemical	E888017
estradiol-3 β -glucuronide	Sigma-Aldrich	E2127-5MG
estradiol-17 β -glucuronide	Sigma-Aldrich	E1127-10mg
estrone-3 β -glucuronide	Toronto Research Chemical	E889055
testosterone-17 β -glucuronide	Steraloids	A6980-000
androstanediol-3 α -glucuronide	Steraloids	A1206-800
etiocholanolone-3 α -glucuronide	Steraloids	A3625-000
androsterone-3 β -glucuronide	Toronto Research Chemical	A637605
testosterone	Sigma-Aldrich	T1500
progesterone	Sigma-Aldrich	P0130

Table S2. Steroid and steroid glucuronide mass spectrometer acquisition parameters.

compound	tR (min)	ESI Mode	Q1 (Da)	Q3 (Da)	DP	CE
d3-estradiol-3 α -glucuronide	1.5	(-)	450.1	274.2	-25	-25
estradiol-3 β -glucuronide	1.90	(-)	447.2	271.2	-25	-25
estradiol-17 β -glucuronide	1.94	(-)	447.2	271.2	-25	-40
estrone-3 β -glucuronide	2.00	(-)	445.2	269.2	-25	-20
testosterone-17 β -glucuronide	2.58	(+)	465.3	271.2	130	10
androstanediol-3 α -glucuronide	3.44	(-)	467.1	291.2	-100	-35
etiocholanolone-3 α -glucuronide	3.45	(-)	465.3	113.1	-25	-37
androsterone-3 β -glucuronide	3.46	(-)	465.3	85.2	-25	-40
testosterone	3.76	(+)	289.3	109.1	50	25
1-cycloheyl-3-uriedo-decanoic acid	4.00	(+)	341.2	216.2	135	28
1-cycloheyl-3-uriedo-decanoic acid	4.00	(-)	339.2	214.2	-140	-38
progesterone	4.20	(+)	315.2	109.1	40	28

The API 4500 source was operated at 650°C, with spray voltage of 4500 V, curtain gas at 34 L/min, Gas 1 at 50 L/min, Gas 2 at 20 L/min, and a collision gas setting of medium using nitrogen.