Supplementary Information for

A Digital Microfluidic Interface Between Solid-Phase Microextraction and HPLC-MS

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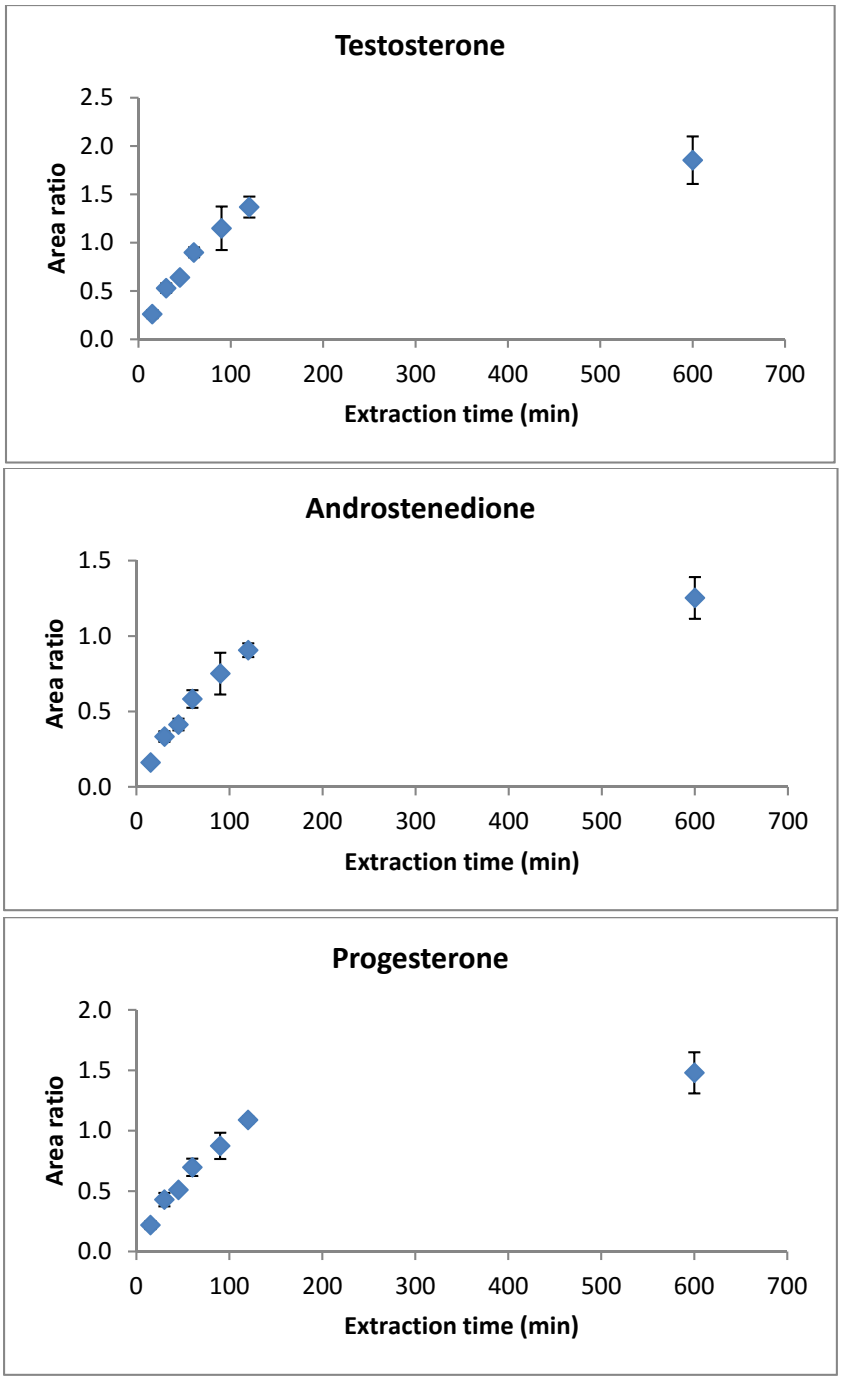

Figure S1. Extraction profiles for model analytes extracted from PBS by SPME. HPLC-MS/MS MRM peak area ratios for TS:TSd3 (top), AD:TSd3 (middle), and PG:TSd3 (bottom). Error bars represent ±1 standard deviation for 3 replicate extractions of each analyte (analytes were spiked at 20 ng/mL, I.S. was spiked in desorption solution at 50 ng/mL, sample volume 4 mL, desorption volume 300 µL).

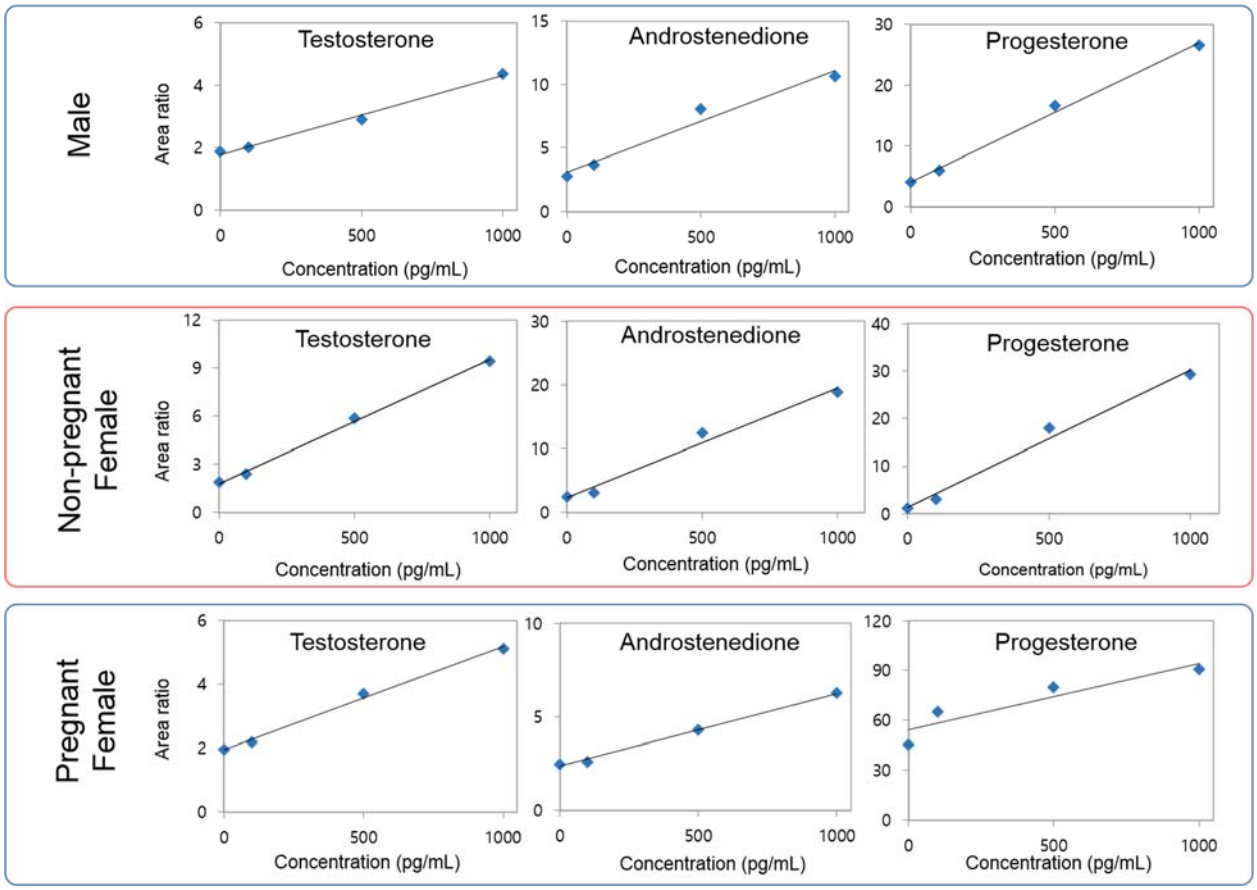

Figure S2. Calibration curves generated using SPME-DMF-HPLC-MS for steroid hormones extracted from samples of pooled human urine from male, non-pregnant female, and pregnant female subjects.

Table S1. HPLC-MS/MS with multiple reaction ion monitoring (MRM) conditions for six deuterated and non-deuterated steroid hormones.

Analyte	Retention time window (min)	MRM transition	Cone voltage (V)	Collision energy (eV)
AD	8.8-10.2	287/97	30	20
		287/109	30	20
ADd7	8.8-10.2	294/100	30	20
		294/113	30	20
TS	9.0-10.3	289/97	35	25
		289/109	35	25
TSd3	9.0-10.3	292/97	35	25
		292/109	35	25
PG	9.8-11.2	315/97	30	25
		315/109	30	25
PGd9	9.8-11.2	324/100	30	25
		324/113	30	25