

Supporting Information for:

**Quantification of dehydroepiandrosterone, 17 β -estradiol,
testosterone and their sulfates in mouse tissues by LC/MS/MS**

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Table S1. Sulfatase activity test. Four concentrations of DHEA-S in acetate buffer were hydrolyzed for 2 or 24 hr and extracted as described in Methods. AUC was converted into fmols using the DHEA calibration curve (Fig. 1C).

DHEA-S (pmol)	Acetate buffer (mL)	DHEA-S (nM)	Incubation time (hr)	AUC	Est. fmol	Injection (μ L)	Reconstitution (μ L)	pmol	recovery
20	2	10	2	16,100	553	1	40	22	1.11
100	2	50	2	60,300	2,072	1	40	83	0.83
200	2	100	2	153,000	5,258	1	40	210	1.05
1000	2	500	2	645,000	22,165	1	40	887	0.89
20	2	10	24	12,800	440	1	40	18	0.88
100	2	50	24	69,000	2,371	1	40	95	0.95
200	2	100	24	147,000	5,052	1	40	202	1.01
1000	2	500	24	623,000	21,409	1	40	856	0.86

Figure S1. Amount-response curve for hydrolyzed DHEA-S.

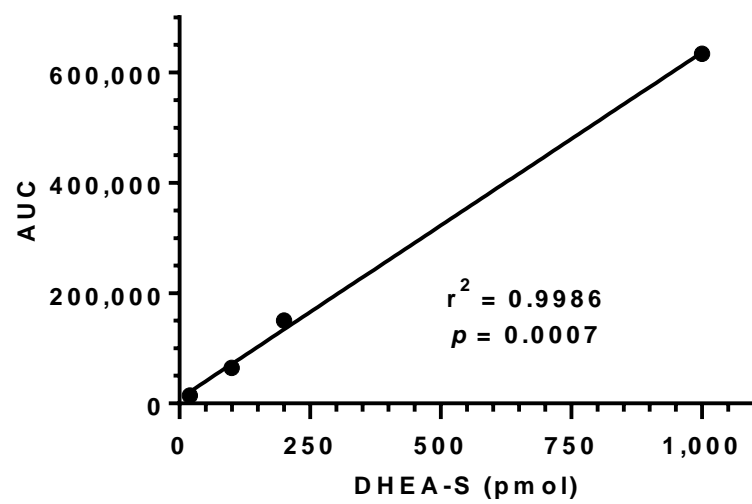


Figure S2. Correlation between free and conjugated levels of testosterone

