

**ELECTRONIC SUPPLEMENTARY MATERIAL for Rosvall et al.** Sources of variation in HPG axis reactivity and individually consistent elevation of sex steroids in a female songbird

AR	
Forward	ATGAGTACCGCATGCACAAA
Reverse	AACTCCTGGGGTGTGATCTG
Amplicon size	100bp
GenBank accession no.	NM_001076688.1
AROM	
Forward	GGATGAGCACATGGATTTTGC
Reverse	GCAGTCAGATCCCCTCTGTTCT
Amplicon size	63 bp
GenBank accession no.	NM_001076691.1
LH-R	
Forward	TCTCAGAGCGACTCCCTG
Reverse	TCCGTCCTCAATGTGCAAC
Amplicon size	111 bp
GenBank accession no.	ADK26771.1, XM_002196121.1
GAPDH	
Forward	TGACCTGCCGTCTGGAAAA
Reverse	CCATCAGCAGCAGCCTTCA
Amplicon size	70 bp
GenBank accession no.	AF255390

**ESM Table 1.** Primer sequences, amplicon size, and GenBank accession numbers for source sequences.

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	<b>Testosterone<sup>1</sup></b>	<b>Estradiol<sup>2</sup></b>
<b>Kit information</b>	Assay Designs # 901-065	Cayman Chemical # 582251
<b>Detection limit</b>	5.67 pg/ml	19 pg/ml
<b>Parallelism</b>	R <sup>2</sup> = 99.9	R <sup>2</sup> = 99.8
<b>Accuracy</b>	R <sup>2</sup> = 99.9, Slope = 0.98	R <sup>2</sup> = 99.9, Slope = 1.03
<b>Cross-reactivity: Testosterone</b>	100%	<0.01%
<b>19-hydroxytestosterone</b>	14.64%	NA
<b>Androstendione</b>	7.20%	NA
<b>Dehydroepiandrosterone</b>	0.72%	NA
<b>Estradiol</b>	0.40%	100%
<b>Dihydrotestosterone</b>	<0.001%	0.02%
<b>Estriol</b>	<0.001%	0.30%
<b>Estradiol-3-sulfate</b>	NA	14.5%
<b>Estradiol-3-glucuronide</b>	NA	14%
<b>Estrone</b>	<0.001%	12%
<b>Estradiol-17-glucuronide</b>	NA	10%
<b>Progesterone</b>	<0.001%	<0.1%
<b>Other steroids</b>	<0.1%	<0.1%

**ESM Table 2.** Details regarding detection limits, accuracy, parallelism, and cross-reactivity for testosterone and estradiol EIAs.

<sup>1</sup>Data from Clotfelter et al., *Hormones and Behavior*, 2004, and from the manufacturer's kit.

<sup>2</sup>Data generated in this study, and/or from the manufacturer's kit.

NA = data not available from the manufacturers' kits.