

Table S4. Accuracy and precision of hormone quantification. Quality control results showing representative accuracy (%) and relative standard deviation (RSD, %) for quantified analytes at a mid-range concentration. (Each compound was tested at one or more concentrations; a single representative is shown here for brevity. All analytes fell within acceptable ranges: accuracy 90%–110%, RSD < 15%.)

Compound (spiked conc.)	Measured Concentration (nmol/L)	RSD (%)	Accuracy (%)
5DS	37.8788	5.9	93.6
ABA	47.3485	4.6	97.7
ACC	618.812	8.1	98.7
BAP	55.5556	8.7	105.8
BAP9G	32.2997	3.6	100.3
BAPR	34.9944	3.6	110.3
BL	260.417	2	104.4
DHZR	35.4108	2.3	103.2
DZ	56.5611	3	100.7
GA1	35.8989	9.6	95.7
GA20	188.196	5.5	102.1
GA3	18.0584	10.7	93.5
GA4	37.6279	6.1	96.4
GA7	37.8558	5.7	86.8
GA9	197.66	1.3	95
H2JA	58.9623	3.4	83
IA	66.8449	5	104.4
IAA	71.4286	3.8	108.3
IAA-Ala	50.813	3.2	98.7
IAA-Asp	43.1034	6.3	100
IAA-Glu	205.524	2.1	94.7
IAA-Gly	53.8793	1.7	106.7
IAA-Leu	43.3727	1.3	98.9
IAA-Phe	38.7958	3.3	98.5
IAA-Trp	34.6164	1.6	106.1
IAA-Val	45.6204	5.3	102
IAM	71.8391	13.8	80.5
IAN	80.1282	13.5	101.6
IBA	615.764	1.5	98
ICA	77.6398	2.4	115.7
ICAlD	86.2069	4.3	102.3
ILA	60.9756	11	83.6
IP	61.5764	5.2	106.7
IPA	66.1372	6.4	117.4
IPR	37.3134	5.6	99.5
JA	59.5238	3.8	93
JA-ILE	38.6638	7.2	87
K	58.1395	2.9	101.3
KR	36.0231	7.5	96.5
OxIAA	65.445	2.4	99.6
SA	18129.1	3.1	102.9

Compound (spiked conc.)	Measured Concentration (nmol/L)	RSD (%)	Accuracy (%)
SAG	41.6667	3.6	117
TRA	78.125	3.5	108.6
TRP	612.745	6.4	96.3
cZ	57.0776	2.5	101.4
cZR	35.6124	3.3	98.1
mT	51.8242	1.7	104.6
mTR	33.5121	6	106.9
oT	51.8672	2.7	100
oTR	33.512	2.9	96.2
pT	51.8672	2.8	100.1
pTR	32.2914	7.9	112
tZ	57.0774	1.9	102.8
tZR	35.6125	4.4	104.5