



CERTIFICATE OF ANALYSIS

The Power to Question

Catalog Number: sc-357319
Lot Number: SAMPLE
Product Name: Conjugated Estrogen
CAS Number: 12126-59-9
Molecular Formula: $C_{18}H_{19}NaO_5S$
Molecular Weight: 370.39

Test	Specification	Result
Appearance	Dark yellow to orange powder	Complies
Assay	Conj. 17a-estradiol: 2.5-9.5% Conj. 17a-dihydroequilin: 13.5-19.5% Conj. 17b-dihydroequilin: 0.5-4.0% Conj. Estrone: 52.5-61.5% Conj. Equilin: 22.5-30.5% Sum of Estrone & Equilin: 79.5-88.0% Conj. 17a-dihydroequilenin: $\leq 3.25\%$ Conj. 17b-dihydroequilenin: $\leq 2.75\%$ Conj. Equilenin: $\leq 5.5\%$ Conj. 17b-estradiol: $\leq 2.25\%$ Conj. $\Delta^8,9$ -dehydroestrone: $\leq 6.25\%$	03.72% 13.57% 02.22% 58.26% 28.17% 86.43% 01.00% 00.12% 01.04% 02.16% 03.54%
pH	7.5 - 9.5	7.82
Loss on Drying	$\leq 2.0\%$	1.44%
Other Impurities	$\leq 5000\text{ppm}$	Complies
Free Steroids	$\leq 0.65\%$	0.37%

Satisfaction Guarantee: We appreciate your business and are committed to providing the highest level of quality and service. Any product that does not meet the performance standards indicated in our product literature will be replaced at no charge. Our policy is valid for one year from the date of your purchase.

Santa Cruz Biotechnology, Inc. 800.457.3801 831.457.3800 fax 831.457.3801 Europe +00800 4573 8000 49 62221 4503 0 www.scbt.com