



The Power to Question

CERTIFICATE OF ANALYSIS

Catalog Number: sc-239862
Lot Number: SAMPLE
Product Name: β -Estradiol 17-valerate
CAS Number: 979-32-8
Molecular Formula: $C_{23}H_{32}O_3$
Molecular Weight: 356.50

Test	Specification	Result
Appearance	White crystalline powder	Complies
Free Acid	$\leq 0.5\%$	0.24%
Microanalysis		100% $\leq 20 \mu m$
Assay	$\geq 99 \%$	99.85%
Identification (Infrared Spectrum)	Conforms to structure	Complies
Melting Point	143-150° C	144.5-147.6° C
Specific Rotation	+41° to +47°	+44.73°
Impurity	$\leq 2.0\%$	<1.0%
Estradiol	$\leq 1.0\%$	0.41%
Solvent residue	Ethyl acetate ≤ 5000 ppm Methanol ≤ 3000 ppm	Complies Complies
Water Content	$\leq 0.1\%$	0.04%

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