



CERTIFICATE OF ANALYSIS

The Power to Question

Catalog Number: sc-203526
Lot Number: SAMPLE
Product Name: Benazepril hydrochloride
CAS Number: 86541-74-4
Molecular Formula: $C_{24}H_{28}N_2O_5 \text{ HCl}$
Molecular Weight: 460.96

Test	Specification	Result
Appearance	White to off-white powder	Complies
Assay (Dried Basis)	98.0 - 102.0%	99.3%
Identification (1H-NMR)		Complies
Identification (Infrared Spectrum)		Complies
Melting Point	182.0 - 188.0°C	185°C
pH	2.0 - 3.5	2.3
Residue on Ignition	≤ 0.2%	0.05%
Solubility	Clear	Complies
Specific Rotation	-135.0° - -144.0°	-141.1°
Heavy Metals	≤ 20 ppm	< 20 ppm
Organic Volatile Impurities	Toluene: ≤ 890 ppm Ethyl acetate: ≤ 5000 ppm	Toluene: Complies Ethyl acetate: Complies
Related Substances	Benazepril Diketopiperazine: < 0.5% Benazeprilat: < 0.5% Other impurity: ≤ 0.2% Total impurities: ≤ 2.0%	Benazepril Diketopiperazine: < 0.1% Benazeprilat: < 0.1% Other impurity: 0.12% Total impurities: 0.18%
Water Content	≤ 2.0%	0.12%

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