



The Power to Question

CERTIFICATE OF ANALYSIS

Catalog Number: sc-478730
Lot Number: SAMPLE
Product Name: L-Norarginine Dihydrochloride
CAS Number: 14191-90-3
Molecular Formula: $C_5H_{12}N_4O_2 \cdot 2HCl$
Molecular Weight: 233.09
Native Source: Synthetic

Test	Specification	Result
Appearance	White to off-white solid	White solid
Identification (NMR)	Consistent with structure	Complies
Identification (Mass Spectrometry)	Consistent with structure	Complies
Purity		97%
Melting Point		70 - 75 °C
Solubility		~2 mg/mL in Methanol ~5 mg/mL in Water
Specific Rotation		+20.7° (c = 0.5, Water)
Carbon Content	25.76%	26.03%
Chloride		27.36% by Ion Chromatography
Hydrogen Content	6.05%	6.59%
Nitrogen Content	24.04%	23.69%

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