



CERTIFICATE OF ANALYSIS

The Power to Question

Catalog Number: sc-228389
Lot Number: SAMPLE
Product Name: L-Arginine methyl ester dihydrochloride
CAS Number: 26340-89-6
Molecular Formula: $C_7H_{16}N_4O_2 \cdot 2HCl$
Molecular Weight: 261.15

Test	Specification	Result
Appearance		White product
Identification (Infrared Spectrum)		Consistent with reference
Identification (TLC)		n-Butanol/Acetic Acid/H ₂ O 4/2/2 (v/v/v) Chloroform/Methanol/Acetic Acid 32% 5/3/1 (v/v/v) Ethylacetate/Pyridine/Acetic Acid/H ₂ O 60/60/12/36 (v/v/v/v)
Purity (TLC)		>99%
Melting Point		190 °C - 193 °C
Solution		Clear, colorless solution at 50 mg/ml in Methanol
Content		Product: 98.9% Cl: 26.9% D-Isomer: <0.1%
Specific Rotation ($\alpha_{24/D}$)		+20.7° (2.5%, Methanol)
Carbon Content	32.19%	32.15%
Dihydrochloride	3.8%	3.8%
Hydrogen Content	6.95%	7.04%
Nitrogen Content	21.45%	21.37%

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.

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