



The Power to Question

# CERTIFICATE OF ANALYSIS

Catalog Number: sc-396825  
Lot Number: SAMPLE  
Product Name: L-Alanine  
CAS Number: 56-41-7  
Molecular Formula:  $C_3H_7NO_2$   
Molecular Weight: 89.09

Test	Specification	Result
Appearance	Colorless or white powder	White powder
Identification (Infrared Spectrum)	Consistent with structure	Complies
Purity (TLC)	$\geq 98\%$	99.8%
Solubility	Colorless and clear ( $< 3.5$ NTU) at 50 mg/ml in water	Colorless and clear
Specific Rotation ( $\alpha_{25/D}$ )	$14.4 \pm 0.7^\circ$	$14.7^\circ$
Heavy Metals (Pb)	$\leq 20$ ppm	Complies
Carbon Content	40.0 - 41.0%	40.4%
Nitrogen Content	15.2 - 16.2%	15.9%

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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