



CERTIFICATE OF ANALYSIS

The Power to Question

Catalog Number: sc-506237
Lot Number: SAMPLE
Product Name: L-Glutamine, Cell Culture Grade
CAS Number: 56-85-9
Molecular Formula: $C_5H_{10}N_2O_3$
Molecular Weight: 146.14
Native Source: non-animal source

Test	Specification	Result
Appearance	White powder	Complies
Assay (Dried Basis)	99.0 - 101.0%	100.1%
Identification (Infrared Spectrum)	Consistent with structure	Complies
pH	4.5 - 6.0 (2.0% in water)	5.6
Residual Solvents		No residual solvents are present
Residue on Ignition (ash)	$\leq 0.10\%$	0.00%
Solubility	Clear colorless at 25 mg/ml in water	Complies
Specific Rotation ($\alpha_{20/D}$) (1)	31.5 - 33.0° (c = 10, in 2 M HCl)	32.7°
Specific Rotation ($\alpha_{20/D}$) (2)	6.3 - 7.3° (c = 4 in water)	6.7°
Loss on Drying	$\leq 0.30\%$	0.02%
Ammonium	$\leq 0.10\%$	Complies
Arsenic	≤ 1 ppm	Complies
Chloride	$\leq 0.020\%$	Complies
Iron	≤ 10 ppm	Complies
Sulfate	$\leq 0.020\%$	Complies
Cell Culture Test	Cell Line: CHO, BHK, VERO	Complies
Endotoxin	≤ 1 EU/ml (30 mg/mL)	< 0 EU/ml

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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