



The Power to Question

CERTIFICATE OF ANALYSIS

Catalog Number: sc-295280
Lot Number: SAMPLE
Product Name: L-Glutamic acid alpha-methyl ester
CAS Number: 6384-08-3
Molecular Formula: $C_6H_{11}NO_4$
Molecular Weight: 161.3

Test	Result
Appearance	White to off-white powder
Identification (1H -NMR)	Consistent with structure
Identification (Infrared Spectrum)	Consistent with structure
Identification (Mass Spectrometry)	Consistent with standard
Purity (HPLC)	99.68%
Melting Point	130.6 - 130.9 °C
Solubility	Clear solution (0.3 g in 6 mL H_2O)
Optical Rotation ($\alpha_{20/D}$)	+35.0° (c = 1% in water)
Loss on Drying	0.585% (60 °C, 2h)
Water Content (KF)	1.205%

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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