

CERTIFICATE OF ANALYSIS

The Power to Question

Catalog Number: sc-295285 Lot Number: SAMPLE

Product Name: L-Glutamine alpha-tert-butyl ester hydrochloride

CAS Number: 39741-62-3 Molecular Formula: $C_9H_{18}N_2O_3\cdot HCl$ Molecular Weight: 238.71

Test	Specification	Result
Appearance	White to off-white powder	Complies
Identification (NMR)	Conforms to structure	Complies
Identification (Infrared Spectrum)	Conforms to structure	Complies
Identification (Mass Spectrometry)	Conforms to structure	Complies
Purity (HPLC)	≥98%	98.10%
Clarity of Solution	0.3g in 2ml H2O clear solution	Complies
Melting Point		141.6-201.7° C
Specific Rotation (α20/D)		+17.54° (C=2 in H2O)
Loss on Drying	≤1.0%	0.96%
Water Content (KF)	≤1.0%	0.58%

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.