



INDOFINE Chemical Company, Inc.

121 Stryker Lane, Bldg. 30, Suite 1 • Hillsborough, NJ 08844 • U.S.A.

Phone: (908) 359-6778 • FAX: (908) 359-1179

website: www.indofinechemical.com

e-mail: chemical@indofinechemical.com

Certificate of Analysis

Catalogue Number	04-185
Product	Ala-Gln-OH
Lot Number	002260-20171002 L-Alanine-L-glutamine
CAS Number	39537-23-0
Molecular Formula	C ₈ H ₁₅ N ₃ O ₄
Molecular Weight	217.22

Appearance	White or almost white crystalline powder
Clarity & Color	Should be clear
Heavy Metals	< 0.001%
Anion	Chloride : < 0.02%
pH	5.6
Optical Rotation	[α] _D ²⁰ = +10 ° (C=2 in H ₂ O)
Infrared Spectrum	Conforms to structure
Loss on Drying	0.27%
Residual Solvents	Ethanol : Not detected
Related Substances	Cyclo-(L-alanyl-L-glutamine): 0.04%, L-Alanine-L-lactamic acid & L-pyroglutamic acid : Not detected ,N(2)-D-alanyl-L-glutamine : 0.01% L-alanyl-L-glutaminic acid : 0.08% ,Other unknown max impurity : 0.18% Sum of other unknown impurities : 0.32%
Residue On Ignition	0.07%
Purity by HPLC	100.10% (Dried basis)
Storage	Store at 0-8 °C

Prepared by:
Ramesh Mandadi
Ramesh Mandadi
Director of Operations

Reviewed and approved by:
Sujata Moton
S. Moton
VP