

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2025-06-11 16:24:20

Date of Next Testing: 2029-06-10 16:24:20

Product Name: **D-Glutamine**

CAS Number: 5959-95-5

Specifications & Purity: $\geq 98\%$

Lot #: I2109223

SKU # **D107632**

Version **0**

Analysis #: **522614**

Storage Temperature: Room temperature

Parameter	Limit Values	Result
Specific Rotation $[\alpha]_{20/D(c=5 \text{ in } 5N \text{ HCl})}$	-35--30 (°)	-33.30000 °
Purity(HPLC)	98-100 (%)	99.30000 %
Purity(Nonaqueous Titration)	97.5-102.5 (%)	98.00000 %
Appearance (D107632)	white powder	White powder
Proton NMR spectrum	Conforms to Structure	Conforms to Structure
Solubility in 1 M HCl , Colorless Clear 50 mg/ml	pass	Pass



John Su
QA & QC Manager