

Certificate of Analysis

Date of Testing: 2023-02-07 09:20:42

Date of Next Testing: 2027-02-06 09:20:42

Product Name: **D-Glutamine**

CAS Number: 5959-95-5

Specifications & Purity: 98%

Lot #: B2303259

SKU #: **D107632**

Analysis: 164516

Parameter	Limit Values	Result
Specific Rotation [a] _D 20/D(c=5 in 5N HCl)	-35--30 (°)	-30.92°
Purity(HPLC)	98-100 (%)	99.78900%
Purity(Nonaqueous Titration)	97.5-102.5 (%)	99.30%
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