

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2023-04-05 23:23:50

Date of Next Testing: 2027-04-04 23:23:50

Product Name: **L-Glutamine t-butyl ester hydrochloride**

CAS Number: 39741-62-3

Specifications & Purity: 98%

Lot #: C23311692

SKU #: **G116977**

Analysis: **107989**

Storage Temperature: Store at -20°C, Argon charged

Parameter	Limit Values	Result
Specific Rotation [α] ₂₅ /D(c=2 in EtOH)	12.3-13.3 (°)	13.17°
Purity(Titration by AgNO ₃)	97.5-102.5 (%)	100.28 %
Appearance (G116977)	White powder	White powder
Solubility in H ₂ O , Colorless, Clear, 50 mg/ml H ₂ O	pass	Pass
Proton NMR spectrum	Conforms to structure	Conforms to Structure

A handwritten signature in black ink that reads "John Su".

John Su
QA & QC Manager