

Certificate of Analysis

Date of Testing: 2024-12-13 11:08:20

Date of Next Testing: 2028-12-12 11:08:20

Product Name: **L-Glutamic acid di-tert-butyl ester hydrochloride**

CAS Number: 32677-01-3

Specifications & Purity: $\geq 97\%$

Lot #: A2125376

SKU #: **G116986**

Version: **0**

Analysis #: **448862**

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

Parameter	Limit Values	Result
Purity(HPLC)	97-100 (%)	99.90000 %
Specific Rotation $[\alpha]_{20/D}(c=1 \text{ in MeOH})$	20-24 ($^{\circ}$)	20.00 $^{\circ}$
Appearance (G116986)	White to Off-White Powder	White to Off-White Powder
Proton NMR spectrum	Conforms to Structure	Conforms to Structure



John Su
QA & QC Manager