

Certificate of Analysis

Date of Testing: 2024-11-01 15:38:45

Date of Next Testing: 2028-10-31 15:38:45

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

CAS Number: 32677-01-3

Specifications & Purity: $\geq 97\%$

Lot #: D1725079

SKU #: **G116986**

Version: **0**

Analysis #: **429297**

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

Parameter	Limit Values	Result
Purity(HPLC)	97-100 (%)	99.99000 %
Specific Rotation $[\alpha]_{20/D(c=1 \text{ in MeOH})}$	20-24 (°)	22.99°
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