

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2023-03-29 14:50:53
 Date of Next Testing: 2027-03-28 14:50:53
 Product Name: **(S)- α -Amino- γ -butyrolactone hydrochloride**
 CAS Number: 2185-03-7
 Specifications & Purity: $\geq 97\%$
 Lot #: C2324307
 SKU #: **A101211**
 Version: **0**
 Analysis #: **191312**
 Storage Temperature: Room temperature, Argon charged

Parameter	Limit Values	Result
Purity(Titration)	96.5-103.5 (%)	101.14000 %
Specific Rotation $[\alpha]_{20/D}(c=0.2 \text{ in EtOH})$	-28--25 (°)	-27.94000 °
Melting point	210-220 (°C)	219.79000 °C
Appearance (A101211)	white to brown powder	White to brown powder
Infrared spectrum	Conforms to Structure	Conforms to Structure
Proton NMR spectrum	Conforms to Structure	Conforms to Structure
Solubility in H ₂ O , very few cloudy	pass	Pass



John Su
QA & QC Manager