

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2026-04-20 10:13:04  
Date of Next Testing: 2030-04-19 10:13:04  
Product Name: **(S)- $\alpha$ -Amino- $\gamma$ -butyrolactone hydrochloride**  
CAS Number: 2185-03-7  
Specifications & Purity:  $\geq 97\%$   
Lot #: 11812029  
SKU #: **A101211**  
Version: **0**  
Analysis #: **693180**  
Storage Temperature: Room temperature, Argon charged

Parameter	Limit Values	Result
Purity(Titration)	96.5-103.5 (%)	99.64100%
Specific Rotation $[\alpha]_{20/D}(c=0.2 \text{ in EtOH})$	-28--25 ( $^{\circ}$ )	-27.31800 $^{\circ}$
Melting point	210-220 ( $^{\circ}\text{C}$ )	218.59900 $^{\circ}\text{C}$
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 <sub>2</sub> O , very few cloudy	pass	Pass



John Su  
QA & QC Manager