

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

# Certificate of Analysis

Date of Testing: 2022-12-02 10:41:13

Date of Next Testing: 2025-12-01 10:41:13

Product Name: **(S)-(-)- $\alpha$ -Amino- $\gamma$ -butyrolactone hydrobromide**

CAS Number: 15295-77-9

Specifications & Purity:  $\geq 98\%$

Lot #: K2230857

SKU #: **I167498**

Version **0**

Analysis #: **130809**

Storage Temperature: Store at 2-8°C

| Parameter                                                         | Limit Values          | Result                |
|-------------------------------------------------------------------|-----------------------|-----------------------|
| Specific Rotation $[\alpha]_{20/D}(c=0.1 \text{ in H}_2\text{O})$ | -25.3--19.5 (°)       | -20.93300 °           |
| Purity (Argentmetric Titration)                                   | 97.5-102.5 (%)        | 98.92000 %            |
| Purity(HPLC)                                                      | 98-100 (%)            | 99.92600 %            |
| Proton NMR spectrum                                               | Conforms to Structure | Conforms to Structure |



John Su  
QA & QC Manager