

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2023-03-29 09:59:10  
Date of Next Testing: 2025-03-28 09:59:10  
Product Name: **Methyl (S)-(-)-3-Bromoisobutyrate**  
CAS Number: 98190-85-3  
Specifications & Purity: >97.0%(GC)  
Lot #: C2316319  
SKU #: **M158847**  
Analysis: **162410**

Parameter	Limit Values	Result
Purity(GC)	97-100 (%)	97.55 %
Refractive index n <sub>20</sub> /D	1.453-1.457	1.46
Optical purity(GC)(ee)	97-100 (%)	98.50 %
specific rotation [ $\alpha$ ] <sub>20</sub> /D(c=Neat)	-19~-13 (°)	-18.90000 °
Proton NMR spectrum	Conforms to Structure	Conforms to Structure



John Su  
QA & QC Manager