

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2023-08-15 16:06:44
 Date of Next Testing: 2025-08-14 16:06:44
 Product Name: **(S)-2-Hydroxybutanoic acid**
 CAS Number: 3347-90-8
 Specifications & Purity: $\geq 95\%$
 Lot #: K2110535
 SKU #: **S192800**
 Version: **0**
 Analysis #: **264332**
 Storage Temperature: Store at 2-8°C, Argon charged

Parameter	Limit Values	Result
Purity(Neutralization titration)	94.5-105.5 (%)	94.55000 %
Specific Rotation $[\alpha]_{20/D(c=1 \text{ H}_2\text{O})}$	-6.8--4.8 (°)	-5.20000 °
Appearance (S192800)	White to Off-White to Yellow Powder or Crystals	White to Off-White to Yellow Powder or Crystals
Proton NMR spectrum	Conforms to Structure	Conforms to Structure



John Su
QA & QC Manager