

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2023-12-15 11:17:20
Date of Next Testing: 2027-12-14 11:17:20
Product Name: **(S)-1,2-Butanediol**
CAS Number: 73522-17-5
Specifications & Purity: >98.0%(GC)
Lot #: L2313209
SKU #: **S161003**
Analysis: **294222**

Parameter	Limit Values	Result
Specific Rotation [a] ₂₀ /D(c=3 in EtOH)	-18~-13 (°)	-15.66°
Refractive index n ₂₀ /D	1.436-1.44	1.44
Purity(GC)	98-100 (%)	98.06%
Appearance (S161003)	Colorless to light yellow liquid	Colorless to light yellow liquid
Proton NMR spectrum	Conforms to Structure	Conforms to Structure



John Su
QA & QC Manager