

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2023-02-23 13:42:08
 Date of Next Testing: 2027-02-22 13:42:08
 Product Name: **Dibutyl L-(+)-Tartrate**
 CAS Number: 87-92-3
 Specifications & Purity: $\geq 98\%$ (GC)
 Lot #: B2309207
 SKU #: **D154385**
 Version: **1**
 Analysis #: **170875**
 Storage Temperature: Room temperature, Argon charged

Parameter	Limit Values	Result
Specific Rotation [α] ₂₀ /D(c=5 in EtOH)	11-14 (°)	11.10000°
Purity(GC)	98-100 (%)	98.60000 %
Appearance(D154385)	White or Colorless to Light yellow powder to lump to clear liquid	White or Colorless to Light yellow powder to lump to clear liquid
Proton NMR spectrum	Conforms to Structure	Conforms to Structure



John Su
QA & QC Manager