

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2022-12-14 10:23:28
Date of Next Testing: 2026-12-13 10:23:28
Product Name: **(S)-(-)-1,1'-Binaphthyl-2,2'-diamine**
CAS Number: 18531-95-8
Specifications & Purity: $\geq 99\%$
Lot #: L2206387
SKU #: **S138404**
Analysis: **145528**

Parameter	Limit Values	Result
Purity(HPLC)	99-100 (%)	99.43800 %
Melting point	241-246 (°C)	244.06000 °C
Specific Rotation [a] _D 20/D(c=1 in Pyridine)	-158--154 (°)	-157.68 °
Appearance (S138404)	White to Tan to Purple Powder, Crystals or Chunks	White to Tan to Purple Powder, Crystals or Chunks
Proton NMR spectrum	Conforms to Structure	Conforms to Structure



John Su
QA & QC Manager