

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2022-08-30 12:36:53

Date of Next Testing: 2024-08-19 12:36:53

Product Name: **(S)-BINOL**

CAS Number: 18531-99-2

Specifications & Purity: $\geq 99\%$

Lot #: H2220109

SKU #: **B100620**

Version: **0**

Analysis #: **123453**

Storage Temperature: Store at 2-8°C

Parameter	Limit Values	Result
Melting point	205-211 (°C)	210.46000 °C
Specific Rotation $[\alpha]_{20/D(c=1 \text{ in THF})}$	-38--33 (°)	-33.02900 °
Purity(HPLC)	99-100 (%)	99.91400 %
Appearance (B100620)	white to grey powder or crystals	white to grey powder or crystals
Proton NMR spectrum	Conforms to Structure	Conforms to Structure



John Su
QA & QC Manager