

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2023-02-02 09:28:19  
Date of Next Testing: 2025-01-22 09:28:19  
Product Name: (R)-(-)-1,1'-Bi-2-naphthol Bis(trifluoromethanesulfonate)  
CAS Number: 126613-06-7  
Specifications & Purity: 98%  
Lot #: A2329393  
SKU #: B115801  
Analysis: 158256

Parameter	Limit Values	Result
Molar extinction coefficient ( $\lambda$ :215.0 -225.0 nm,CH <sub>3</sub> CN)	$\geq 115000$	115010.20
Specific Rotation $[\alpha]_{20}^D(c=1 \text{ in THF})$	-154--135 (°)	-148.51°
Lambda max(CH <sub>3</sub> CN)	215-225 (nm)	218.63 nm
Melting point	82-87 (°C)	84.33000 °C
Purity(HPLC)	98-100 (%)	99.80200%
Carbon by Elemental Analysis	46.3-49.7 (%)	46.52%
Sulfur by Elemental Analysis	11.2-12.1 (%)	11.76%
Appearance (B115801)	white to yellow powder, crystals, and/or chunks	white to yellow powder, crystals, and/or chunks
Infrared spectrum	Conforms to Structure	Conforms to Structure



John Su  
QA & QC Manager