

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing:	2024-09-03 13:54:23
Date of Next Testing:	2026-08-24 13:54:23
Product Name:	(S)-(+)-1,1'-Binaphthyl-2,2'-diyl Bis(trifluoromethanesulfonate)
CAS Number:	128544-05-8
Specifications & Purity:	95%
Lot #:	C1716025
SKU #	B115802
Version	0
Analysis #:	406222

Parameter	Limit Values	Result
Melting point	81-85 (°C)	84.70000 °C
Lambda max(CH ₃ CN)	215-225 (nm)	220.00 nm
Sulfur by Elemental Analysis	11.2-12.1 (%)	11.40 %
Molar extinction coefficient (λ:215.0 -225.0 nm,CH ₃ CN)	≥115000	120000.00
Carbon by Elemental Analysis	46.3-49.7 (%)	48.10 %
Purity(HPLC)	95-100 (%)	99.60000 %
Specific Rotation [α] ₂₀ /D(c=1 in THF)	135-154 (°)	149.20 °
Appearance (B115802)	white to yellow powder, crystals, and/or chunks	white to yellow powder, crystals, and/or chunks



John Su
QA & QC Manager