

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing:	2023-11-17 14:08:49
Date of Next Testing:	2026-11-16 14:08:49
Product Name:	<b>(R)-(+)-1,1'-Binaphthyl-2,2'-diamine</b>
CAS Number:	18741-85-0
Specifications & Purity:	≥99%
Lot #:	K2310019
SKU #	<b>R138409</b>
Version	<b>0</b>
Analysis #:	<b>097477</b>

Parameter	Limit Values	Result
Purity(HPLC)	98-100 (%)	99.63100 %
Specific Rotation [α] <sub>20</sub> /D(c=1 in Pyridine)	154-158 (°)	155.94 °
Melting point	240-244 (°C)	242.48000 °C
Appearance (R138409)	white to off-white to pink to yellow-red powder	white to off-white to pink to yellow-red powder
Proton NMR spectrum	Conforms to Structure	Conforms to Structure



John Su  
QA & QC Manager