

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2022-07-23 11:46:50
Date of Next Testing: 2025-07-22 11:46:50
Product Name: **(R)-(+)-1,1'-Binaphthyl-2,2'-diamine**
CAS Number: 18741-85-0
Specifications & Purity: $\geq 99\%$
Lot #: G2221475
SKU #: **R138409**
Version: **0**
Analysis #: **097477**

Parameter	Limit Values	Result
Purity(HPLC)	98-100 (%)	99.63100 %
Specific Rotation $[\alpha]_{20}^D(c=1 \text{ in Pyridine})$	154-158 ($^{\circ}$)	155.94 $^{\circ}$
Melting point	240-244 ($^{\circ}\text{C}$)	242.48000 $^{\circ}\text{C}$
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