

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

# Certificate of Analysis

|                          |                                          |
|--------------------------|------------------------------------------|
| Date of Testing:         | 2023-08-24 14:17:57                      |
| Date of Next Testing:    | 2027-08-23 14:17:57                      |
| Product Name:            | <b>(R)-2,2'-Dimethyl-1,1'-binaphthyl</b> |
| CAS Number:              | 19634-89-0                               |
| Specifications & Purity: | ≥95%                                     |
| Lot #:                   | H2315123                                 |
| SKU #                    | <b>R160868</b>                           |
| Version                  | <b>1</b>                                 |
| <b>Analysis #:</b>       | <b>256693</b>                            |
| Storage Temperature:     | Store at 2-8°C                           |

| Parameter                                                        | Limit Values                            | Result                                  |
|------------------------------------------------------------------|-----------------------------------------|-----------------------------------------|
| Purity(HPLC area)                                                | 95-100 (%)                              | 95.68700 %                              |
| Specific rotation [ $\alpha$ ] <sub>20/D(C=0.5, EtOH(95%))</sub> | -20~-15 (°)                             | -17.17100 °                             |
| Appearance(R160868)                                              | White to Almost white powder to crystal | White to Almost white powder to crystal |
| NMR Spectrum 1H                                                  | Conforms to structure                   | Conforms to Structure                   |



John Su  
QA & QC Manager