

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

|                          |                                                                  |
|--------------------------|------------------------------------------------------------------|
| Date of Testing:         | 2024-12-14 14:35:00                                              |
| Date of Next Testing:    | 2028-12-13 14:35:00                                              |
| Product Name:            | <b>(R)-6,6'-Dibromo-2,2'-bis(methoxymethoxy)-1,1'-binaphthyl</b> |
| CAS Number:              | 179866-74-1                                                      |
| Specifications & Purity: | ≥98%                                                             |
| Lot #:                   | L2409543                                                         |
| SKU #                    | <b>R160862</b>                                                   |
| Version                  | <b>1</b>                                                         |
| Analysis #:              | <b>368045</b>                                                    |
| Storage Temperature:     | Room temperature                                                 |

| Parameter                                        | Limit Values                         | Result                               |
|--------------------------------------------------|--------------------------------------|--------------------------------------|
| Purity(HPLC area)                                | 98-100 (%)                           | 98.90000 %                           |
| Specific rotation $[\alpha]_{20/D(C=1, CHCl_3)}$ | 20-23 (°)                            | 21.60000 °                           |
| Melting point                                    | 133-137 (°C)                         | 134.70000 °C                         |
| Appearance(R160862)                              | White to off-white powder to crystal | White to Off-White Powder to crystal |
| NMR Spectrum 1H                                  | Conforms to Structure                | Conforms to Structure                |



John Su  
QA & QC Manager