

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

| | |
|--------------------------|---|
| Date of Testing: | 2023-10-23 11:52:06 |
| Date of Next Testing: | 2026-10-22 11:52:06 |
| Product Name: | (R,R)-(-)-N,N'-Bis(3,5-di-tertbutylsalicylidene)-1,2-cyclohexanediaminomanganese(III) chloride |
| CAS Number: | 138124-32-0 |
| Specifications & Purity: | 98% |
| Lot #: | J2314283 |
| SKU # | R587112 |
| Analysis: | 270505 |
| Storage Temperature: | Store at 2-8°C, Argon charged |

| Parameter | Limit Values | Result |
|----------------------------------|---|---|
| Purity(HPLC area) | 98-100 (%) | 99.23% |
| Carbon by Elemental Analysis | 65.35-69.43 (%) | 67.84% |
| Nitrogen by Elemental Analysis | 4.23-4.50 (%) | 4.41% |
| Enantiomeric Excess | 98-100 (%) | 98.01000% |
| Appearance(R587112) | Orange to brown to dark brown powder to crystal | Orange to brown to dark brown powder to crystal |
| ICP:Confirms Manganese Component | Confirmed | Confirmed |
| Infrared spectrum | Conforms to Structure | Conforms to Structure |



John Su
QA & QC Manager