

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2023-10-23 11:41:45  
 Date of Next Testing: 2026-10-22 11:41:45  
 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 #: J2314282  
 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