

ALADDIN SCIENTIFIC CORPORATION
14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2025-03-11 14:14:17
Date of Next Testing: 2028-03-10 14:14:17
Product Name: **Lithium manganese(III,IV) oxide**
CAS Number: 12057-17-9
Specifications & Purity: $\geq 99.5\%$, $< 15\mu\text{m}$
Lot #: C2510209
SKU #: **L657637**
Version: **1**
Analysis #: **476442**
Storage Temperature: Argon charged

| Parameter | Limit Values | Result |
|---|-------------------------|-------------------------|
| Purity(Based On Trace Metals Analysis) | 99.5-100 (%) | 99.60% |
| Trace Metal Analysis | 0-5000 (ppm) | 3978.00 ppm |
| Particle size | $< 15 (\mu\text{m})$ | 13.20000 μm |
| ICP: Confirms Lithium and Manganese Component | Confirmed | Confirmed |
| Appearance(L657637) | Black powder to crystal | Black powder to crystal |
| X-Ray Diffraction | Conforms to Structure | Conforms to Structure |



John Su
QA & QC Manager