

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2024-03-16 11:46:43  
Date of Next Testing: 2027-03-16 11:46:43  
Product Name: **Lithium manganese(III,IV) oxide**  
CAS Number: 12057-17-9  
Specifications & Purity: electrochemical grade  
Lot #: C2407397  
SKU #: **L476335**  
**Analysis:** **325278**  
Storage Temperature: Argon charged

Parameter	Limit Values	Result
Titration by KMNO <sub>4</sub> (% Mn)	59.8-61.7 (%)	60.00 %
Trace Metal Analysis	0-20000 (ppm)	474.10 ppm
Particle size	0-5 (µm)	5.00000 µm
X-Ray Diffraction	Conforms to Structure	Conforms to Structure
Appearance(L476335)	Very Dark Blue to Black Powder	Very Dark Blue to Black Powder



John Su  
QA & QC Manager