

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

### Certificate of Analysis

Date of Testing: 2025-10-17 13:21:26  
Date of Next Testing: 2029-10-16 13:21:26  
Product Name: **Manganese dioxide**  
CAS Number: 1313-13-9  
Specifications & Purity: ≥98% metals basis  
Lot #: J2515757  
SKU #: **M118109**  
Version: **2**  
Analysis #: **592791**  
Storage Temperature: Room temperature

Parameter	Limit Values	Result
Purity(Based On Trace Metals Analysis)	98-100 (%)	99.96770 %
Titration by KMNO4 (% Mn)	62-100 (%)	62.92000 %
Total Metallic Impuritie	0-20000 (ppb)	323.00000 ppb
Appearance (M118109)	Grey to Black Powder and/or Chunks	Grey to Black Powder and/or Chunks
X-Ray Diffraction	Conforms to Structure	Conforms to Structure



John Su  
QA & QC Manager