

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2022-11-10 16:47:25

Date of Next Testing: 2026-11-09 16:47:25

Product Name: **Manganese dioxide**

CAS Number: 1313-13-9

Specifications &amp; Purity: 99% metals basis

Lot #: K2205335

SKU #: **M118110****Analysis: 149079**

Parameter	Limit Values	Result
Total Metallic Impurities	0-10000 (ppm)	302.00 ppm
Titration by KMNO <sub>4</sub> (% Mn)	62.6-65.1 (%)	63.81 %
Purity(Based On Trace Metals Analysis)	99-100 (%)	99.97 %
Appearance (M118110)	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