

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2023-02-16 11:44:16

Date of Next Testing: 2027-02-15 11:44:16

Product Name: **Manganese dioxide**

CAS Number: 1313-13-9

Specifications &amp; Purity: 99% metals basis

Lot #: B23031334

SKU #: **M118110****Analysis: 177376**

Parameter	Limit Values	Result
Total Metallic Impurities	0-10000 (ppm)	1949.00 ppm
Titration by KMNO <sub>4</sub> (% Mn)	62.6-65.1 (%)	62.89 %
Purity(Based On Trace Metals Analysis)	99-100 (%)	99.91 %
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