

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2023-03-02 16:26:45

Date of Next Testing: 2027-03-01 16:26:45

Product Name: **Manganese dioxide**

CAS Number: 1313-13-9

Specifications & Purity: 98% metals basis

Lot #: B2328745

SKU #: **M118109****Analysis: 193243**

Parameter	Limit Values	Result
Purity(Based On Trace Metals Analysis)	98-100 (%)	98.88 %
Titration by KMNO4 (% Mn)	62-100 (%)	63.07 %
Total Metallic Impuritie	0-20000 (ppb)	11240.00 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