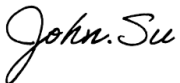


Certificate of Analysis

Date of Testing: 2023-04-26 18:01:13
Date of Next Testing: 2027-04-25 18:01:13
Product Name: **Manganese dioxide**
CAS Number: 1313-13-9
Specifications & Purity: 99% metals basis
Lot #: D2325473
SKU #: **M118110**
Analysis: 214462

Parameter	Limit Values	Result
Total Metallic Impurities	0-10000 (ppm)	849.00 ppm
Purity(Based On Trace Metals Analysis)	99-100 (%)	99.92 %
Titration by KMNO4 (% Mn)	62.6-65.1 (%)	62.61 %
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