

Certificate of Analysis

Date of Testing: 2023-06-26 12:21:22

Date of Next Testing: 2027-06-25 12:21:22

Product Name: **Manganese dioxide**

CAS Number: 1313-13-9

Specifications & Purity: 99% metals basis

Lot #: F2310340

SKU #: **M118110**

Analysis: 227699

| Parameter | Limit Values | Result |
|--|------------------------------------|------------------------------------|
| Total Metallic Impurities | 0-10000 (ppm) | 73.00 ppm |
| Titration by KMNO4 (% Mn) | 62.6-65.1 (%) | 62.95 % |
| Purity(Based On Trace Metals Analysis) | 99-100 (%) | 99.99 % |
| 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