

## Certificate of Analysis

Date of Testing: 2023-03-10 19:13:35  
Date of Next Testing: 2027-03-09 19:13:35  
Product Name: **Manganese dioxide**  
CAS Number: 1313-13-9  
Specifications & Purity: 99.95% metals basis  
Lot #: C2307896  
SKU #: **M101140**  
Analysis: **187926**

| Parameter                              | Limit Values          | Result                |
|--|-----------------------|-----------------------|
| Trace Metal Analysis                   | 0-500 (ppm)           | 254.00 ppm            |
| Purity(Based On Trace Metals Analysis) | 99.95-100 (%)         | 99.97 %               |
| Appearance (M101140)                   | grey to black powder  | grey to black powder  |
| X-Ray Diffraction                      | Conforms to Structure | Conforms to Structure |



John Su  
QA & QC Manager