

## Certificate of Analysis

Date of Testing: 2023-09-05 11:00:20  
Date of Next Testing: 2027-09-04 11:00:20  
Product Name: **Manganese dioxide**  
CAS Number: 1313-13-9  
Specifications & Purity: Analytical Reagent,85%  
Lot #: H2328514  
SKU #: **M101135**  
Analysis: **263523**

Parameter	Limit Values	Result
Heavy metal (as Pb)	0-0.005 (ppm)	0.00 ppm
Sulfate(SO42-)	0-0.05 (%)	0.01 %
Iron(Fe)	0-0.02 (ppm)	0.01 ppm
earth metals	0-2 (%)	1.00 %
Total carbon	0-0.01 (%)	0.01 %
Chloride (Cl-)	0-0.002 (%)	0.00 %
Assay	85-100 (%)	92.36 %
Insoluble matter in hydrochloric	pass	Pass
X-Ray Diffraction	Conforms to Structure	Conforms to Structure



John Su  
QA & QC Manager