

## Certificate of Analysis

Date of Testing: 2025-04-16 19:18:07  
Date of Next Testing: 2029-04-15 19:18:07  
Product Name: **Manganese**  
CAS Number: 7439-96-5(powder)  
Specifications & Purity:  $\geq 99.9\%$  metals basis  
Lot #: D2511606  
SKU #: **M118819**  
Version: **0**  
Analysis #: **490218**  
Storage Temperature: Argon charged

Parameter	Limit Values	Result
Purity(Based on Trace Metals Impurities of ICP)	99.9-100 (%)	99.96 %
Total Metallic Impuritie	0-1000 (ppm)	434.00 ppm
Appearance (M118819)	Grey to green powder	Grey to green powder
X-Ray Diffraction	Conforms to Structure	Conforms to Structure
ICP Major Analysis	Confirmed to structure	Confirmed to structure



John Su  
QA & QC Manager