

## Certificate of Analysis

Date of Testing: 2024-05-21 15:47:16  
Date of Next Testing: 2028-05-20 15:47:16  
Product Name: **Manganese**  
CAS Number: 7439-96-5(power)  
Specifications & Purity: 99.9% metals basis  
Lot #: E2408050  
SKU #: **M118819**  
Version: **0**  
Analysis #: **288904**  
Storage Temperature: Argon charged

Parameter	Limit Values	Result
Purity(Based on Trace Metals Impurities of ICP)	99.9-100 (%)	99.92 %
Total Metallic Impuritie	0-1000 (ppm)	792.00 ppm
Appearance (M118819)	Grey to green powder	Grey to green powder
ICP Major Analysis	Confirmed to structure	Confirmed to structure
X-Ray Diffraction	Conforms to Structure	Conforms to Structure



John Su  
QA & QC Manager