

## Certificate of Analysis

Date of Testing: 2022-12-03 15:26:21  
Date of Next Testing: 2026-12-02 15:26:21  
Product Name: **Manganese**  
CAS Number: 7439-96-5(power)  
Specifications & Purity: 99%, ≥200 mesh  
Lot #: K2224611  
SKU #: **M105843**  
**Analysis:** **139319**  
Storage Temperature: Argon charged

Parameter	Limit Values	Result
Total Metallic Impuritie	0-10000 (ppm)	738.00 ppm
Purity(Based On Trace Metals Analysis)	99-100 (%)	99.93 %
Particle size	≥200 (mesh)	547.45 mesh
Appearance (M105843)	Grey to green powder	Grey to green powder
ICP:Confirms Manganese Component	Confirmed	Confirmed
X-Ray Diffraction	Conforms to Structure	Conforms to Structure



John Su  
QA & QC Manager