

## Certificate of Analysis

Date of Testing: 2023-06-11 16:50:42  
Date of Next Testing: 2026-06-10 16:50:42  
Product Name: **Manganese(III) phthalocyanine chloride**  
CAS Number: 53432-32-9  
Specifications & Purity: Dye content 85%  
Lot #: F2305636  
SKU #: **M478364**  
Analysis: **215169**

Parameter	Limit Values	Result
Carbon by Elemental Analysis	52.9-74.6 (%)	64.48 %
Nitrogen by Elemental Analysis	15.4-21.8 (%)	18.48 %
Appearance(M478364)	Black Powder or Crystals	Black powder or crystals
Infrared spectrum	Conforms to Structure	Conforms to Structure
ICP:Confirms Manganese Component	Confirmed	Confirmed



John Su  
QA & QC Manager