

ALADDIN SCIENTIFIC CORPORATION
14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2025-11-10 16:59:01
Date of Next Testing: 2029-11-09 16:59:01
Product Name: **Manganese Chloride Tetrahydrate**
CAS Number: 13446-34-9
Specifications & Purity: PrimorTrace™, ≥99.99% metals basis
Lot #: K2503578
SKU #: **M109463**
Version: **0**
Analysis #: **591894**
Storage Temperature: Room temperature, Argon charged

Parameter	Limit Values	Result
Total trace metal imp	0-150 (ppm)	105.00000 ppm
Mn(Complexometric EDTA)	25.5-29 (%)	27.45000 %
Water by Karl Fischer	33-39 (%)	38.84000 %
Purity(Based On Trace Metals Analysis)	99.99-100 (%)	99.99000 %
Appearance (M109463)	light red to dark red crystals	light red to dark red crystals
ICP:Confirms Manganese Component	Confirmed	Confirmed
X-Ray Diffraction	Conforms to Structure	Conforms to Structure



John Su
QA & QC Manager