

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

Certificate of Analysis

Date of Testing: 2026-07-01 13:18:53
Date of Next Testing: 2030-06-30 13:18:53
Product Name: **Manganese Chloride Tetrahydrate**
CAS Number: 13446-34-9
Specifications & Purity: PrimorTrace™, ≥99.99% metals basis
Lot #: F2623542
SKU #: **M109463**
Version: **0**
Analysis #: **722149**
Storage Temperature: Room temperature, Argon charged

Parameter	Limit Values	Result
Total trace metal imp	0-150 (ppm)	16.00000 ppm
Water by Karl Fischer	33-39 (%)	37.35890 %
Purity(Based On Trace Metals Analysis)	99.99-100 (%)	99.99840 %
Mn(Complexometric EDTA)	25.5-29 (%)	27.45000 %
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