

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

### Certificate of Analysis

Date of Testing: 2025-07-10 18:15:43  
Date of Next Testing: 2028-07-09 18:15:43  
Product Name: **Manganese(II) nitrate tetrahydrate**  
CAS Number: 20694-39-7  
Specifications & Purity:  $\geq 98\%$   
Lot #: G2501340  
SKU #: **M191978**  
Version: **1**  
Analysis #: **532865**  
Storage Temperature: Argon charged

| Parameter               | Limit Values                                | Result                                      |
|-------------------------|---|---|
| Mn(Complexometric EDTA) | 20.9-21.9 (%)                               | 21.63%                                      |
| Water by Karl Fischer   | 26-30 (%)                                   | 29.89%                                      |
| Appearance (M191978)    | White to dark red or Violet solid or liquid | White to dark red or Violet solid or liquid |
| X-Ray Diffraction       | Conforms to Structure                       | Conforms to Structure                       |



John Su  
QA & QC Manager