

Certificate of Analysis

Date of Testing: 2023-02-18 14:08:49
Date of Next Testing: 2025-02-07 14:08:49
Product Name: **Manganese Chloride Tetrahydrate**
CAS Number: 13446-34-9
Specifications & Purity: grade for molecular biology , $\geq 99.0\%$ (KT)
Lot #: B2314070
SKU #: **M109464**
Analysis: 022758
Storage Temperature: Desiccated

Parameter	Limit Values	Result
UV Absorbance 280nm	0-0.01	0.00
UV Absorbance 260nm	0-0.01	0.00
PH at 25°C(5% in water)	4-6	5.21
Sulfate(SO ₄ ²⁻)	0-50 (ppm)	15.22 ppm
Purity(KT)	99-100 (%)	99.08 %
DNases	none detected	none detected
Insoluble matter	pass	Pass
phosphatases	none detected	none detected
proteases	none detected	none detected
RNases	none detected	none detected
Solubility in H ₂ O , Colorless and clear(0.5M,20°C)	pass	Pass
λ ,0.5 M in H ₂ O	Pass	Pass



John Su
QA & QC Manager