

## ...Pure Quality

## **Certificate of Analysis**

**Product:** Manganese Chloride Tetrahydrate Meets USP/ACS

**Cat:** CP-A1640D/CP-B1640D

**Manufacture Date:** 11/2/17 **Retest Date:** 11/1/20

## **Specification**

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<u>Test</u>	Min.	Max.	Result
Appearance	Pink, slightly deliquescent		Conforms
Assay (on dried basis)	98.0%	101.0%	99.86%
Identification	To pass test		Passes
Loss on drying (3 hrs. @ 105°C)	36.0%	38.5%	36.32%
pH (5% solution in H2O)	4.0	6.0	4.54
Insoluble Matter		0.005%	0.003%
Substances not ppt'd by Ammonium Sulfide		0.2%	0.17%
Sulfate		0.005%	<0.005%
Heavy Metals		5 ppm	<5 ppm
Iron		5 ppm	<5 ppm
Zinc		To pass test	Passes
Organic Volatile Impurities		To pass test	Passes
ead		4 mg/kg	2 mg/kg
odium		0.05%	0.0004%
Potassium		0.01%	0.0011%
Magnesium		0.005%	0.0041%
Calcium		0.005%	0.0008%
uality Control Approval			
Vyto Mekesa			
QC Director			
May 9, 2018			

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