



## CERTIFICATE OF ANALYSIS

Product Name : MANGANESE (II) SULPHATE MONOHYDRATE 98% AR/ACS  
Lot No. : B380522108 Analyzed On : 26-Aug-2021  
Mol. Formula : MnSO4.H2O Mol. Weight : 169.02  
Code No. : 04510 CAS No. : 10034-96-5  
Mfg. Date : Aug-2021 Exp. Date : Jul-2026  
HAZ. / P.G. : 9 / III UN No. : 3077

Sr.	Tests	Specifications	Results
1	Appearance	White to off white to pink colored powder	Light pink colored powder
2	Assay	98.0 - 101.0%	98.42%
3	Insoluble matter	Max 0.01%	<0.01%
4	Chloride (Cl)	Max 0.005%	0.004%
5	Calcium (Ca)	Max 0.005%	0.00042%
6	Iron (Fe)	Max 0.002%	0.00054%
7	Heavy metal (as Pb)	Max 0.002%	0.00012%
8	Magnesium (Mg)	Max 0.005%	0.003%
9	Nickel (Ni)	Max 0.02%	0.00013%
10	Potassium (K)	Max 0.01%	0.00034%
11	Sodium (Na)	Max 0.05%	0.00049%
12	Zinc (Zn)	Max 0.005%	0.00089%
13	Substance reducing KMnO4 (as O) - ACS	Passes test	Passes test
14	Loss on ignition (at 400-500°C)	10 - 12%	11.91%

**CONCLUSION** -This above product complies as per the specifications of **LOBA CHEMIE PVT. LTD.**

Shashikant Gaikwad  
QC Manager

**LOBA CHEMIE PVT. LTD.**

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LOBA/QC/FM/01

04/10.03.2021