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### CERTIFICATE OF ANALYSIS

**Name of the Sample** : **Manganese Sulphate 1 Hydrate AR**  
**Batch No.** : **224934**  
**Date of Mfg** : **Sep 2021**  
**Date of Expiry** : **Aug 2026**  
**Register No.** : **2021-22**  
**Qty of Sample** : **500gm**  
**Date of Analysis** : **Sep 2021**

S.No	Test Parameters	Observed Values	Standard Values
1.	Description	Passes	Light Pink Powder
2.	Assay	99.63% MnSO <sub>4</sub> .H <sub>2</sub> O	Min.99.0%
3.	Water insoluble matter	0.0054%	Max.0.01%
4.	Chloride	0.0002%	Max.0.001%
5.	Copper	0.0005%	Max.0.0005%
6.	Iron	0.0005%	Max.0.001%
7.	Lead	0.0001%	Max.0.0005%
8.	Nickel	0.0006%	Max.0.002%
9.	Potassium	0.0015%	Max.0.002%
10.	Sodium	0.0018%	Max.0.005%
11.	Oxidizing substances	Passes	No reaction
12.	Substances reducing iodine	0.0083%	Max.0.01%
13.	Substances reducing Permanganate	Passes	Max.0.001%

**Chief Chemist**