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### CERTIFICATE OF ANALYSIS

**Name of the Sample** : **Manganese (II) Sulphate monohydrate AR**  
**Batch No.** : **226608**  
**Date of Mfg** : **May 2023**  
**Date of Expiry** : **April 2028**  
**Register No.** : **2023-24**  
**Qty of Sample** : **500gm**  
**Date of Analysis** : **May 2023**

| S.No | Test Parameters                  | Observed Values                               | Standard Values   |
|------|----------------------------------|---|-------------------|
| 1.   | Description                      | Passes  | Light Pink Powder |
| 2.   | Assay                            | 99.92%<br>MnSO <sub>4</sub> .H <sub>2</sub> O | Min.99.0%         |
| 3.   | Water insoluble matter           | 0.004%  | Max.0.01%         |
| 4.   | Chloride                         | 0.0006%                                       | Max.0.001%        |
| 5.   | Copper                           | 0.0005%                                       | Max.0.0005%       |
| 6.   | Iron                             | 0.0005%                                       | Max.0.001%        |
| 7.   | Lead                             | 0.0002%                                       | Max.0.0005%       |
| 8.   | Nickel                           | 0.002%  | Max.0.002%        |
| 9.   | Potassium                        | 0.002%  | Max.0.002%        |
| 10.  | Sodium                           | 0.0014%                                       | Max.0.005%        |
| 11.  | Oxidizing substances             | Passes  | No reaction       |
| 12.  | Substances reducing iodine       | 0.0093%                                       | Max.0.01%         |
| 13.  | Substances reducing Permanganate | Passes  | Max.0.001%        |

**Chief Chemist**