

# CERTIFICATE OF ANALYSIS

|              |                                                                      |              |               |
|--------------|----------------------------------------------------------------------|--------------|---------------|
| Product Name | : MAGNESIUM CHLORIDE HEXAHYDRATE 98% AR<br>Confirming to BP, EP, USP |              |               |
| Lot No.      | : A522482502                                                         | Release Date | : 07-Feb-2025 |
| Mol. Formula | : MgCl <sub>2</sub> .6H <sub>2</sub> O                               | Mol. Weight  | : 203.30      |
| Code No.     | : 04468                                                              | CAS No.      | : 7791-18-6   |
| Mfg. Date    | : Feb-2025                                                           | Exp. Date    | : Jan-2030    |
| HAZ. / P.G.  | : -                                                                  | UN No.       | : -           |

| Sr. | Tests                                    | Specifications                                                                                                    | Results                  |
|-----|------------------------------------------|-------------------------------------------------------------------------------------------------------------------|--------------------------|
| 1   | Appearance                               | Colorless crystals or white crystalline powder                                                                    | White crystalline powder |
| 2   | Assay                                    | 98-101.0%                                                                                                         | 98.7%                    |
| 3   | Identification test (as per BP, EP, USP) | -                                                                                                                 | -                        |
| 4   | Reaction of chloride                     | The precipitate dissolve easily with the possible exception of a few large particles which dissolve slowly        | Passes test              |
| 5   | Reaction of magnesium                    | A white crystalline precipitate is formed                                                                         | Passes test              |
| 6   | Appearance of solution                   | Clear and colorless                                                                                               | Clear and colorless      |
| 7   | Alcohol insoluble matter                 | Passes test                                                                                                       | Passes test              |
| 8   | Insoluble matter in water                | Max 0.005%                                                                                                        | 0.005%                   |
| 9   | Acidity or alkalinity                    | Not more than 0.3 mL of 0.01M hydrochloride acid or 0.01M sodium hydroxide is required to change of the indicator | Passes test              |
| 10  | Nitrogen compounds (as N)                | Max 0.002%                                                                                                        | 0.002%                   |
| 11  | Phosphate (PO <sub>4</sub> )             | Max 0.0005%                                                                                                       | 0.0004%                  |
| 12  | Sulphate (SO <sub>4</sub> )              | Max 0.002%                                                                                                        | 0.001%                   |
| 13  | Arsenic (As)                             | Max 0.0002%                                                                                                       | <0.0002%                 |
| 14  | Barium (Ba)                              | Max 0.005%                                                                                                        | 0.00006%                 |
| 15  | Calcium (Ca)                             | Max 0.01%                                                                                                         | 0.00047%                 |
| 16  | Iron (Fe)                                | Max 0.0005%                                                                                                       | 0.000009%                |
| 17  | Heavy metal (as Pb)                      | Max 0.0005%                                                                                                       | Not detected             |
| 18  | Manganese (Mn)                           | Max 0.0005%                                                                                                       | 0.00002%                 |
| 19  | Potassium (K)                            | Max 0.005%                                                                                                        | 0.000031%                |
| 20  | Sodium (Na)                              | Max 0.005%                                                                                                        | 0.002%                   |
| 21  | Strontium (Sr)                           | Max 0.005%                                                                                                        | Not detected             |
| 22  | Bromide (Br)                             | Max 0.05%                                                                                                         | 0.05%                    |
| 23  | Aluminium (Al)                           | Max 0.0001%                                                                                                       | 0.00001%                 |

|    |              |                                                                                                               |              |
|----|--------------|---------------------------------------------------------------------------------------------------------------|--------------|
| 24 | Heavy metals | Max 0.001%                                                                                                    | Not detected |
| 25 | Water        | 51 - 55% (by Karl-Fisher per EP. Use custom method "KF MgCl <sub>2</sub> .6H <sub>2</sub> O" on autotitrator. | 51.1%        |
| 26 | pH           | 4.5 - 7.0                                                                                                     | 6.28         |

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

*Akhan*

*B. Patil*

Afroz khan  
Chemist

Jagruti B. Patil  
QC Manager

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**LOBA CHEMIE PVT. LTD.**

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