

CERTIFICATE OF ANALYSIS

ISO 9001-2015 CERTIFIED

Product Name : MAGNESIUM CHLORIDE HEXAHYDRATE 99.5% Molecular Biology
Lot No. : M33288Z2102 **Analyzed On** : 11-Feb-2021
Mol. Formula : MgCl₂.6H₂O **Mol. Weight** : 203.30
Code No. : 4468B **CAS No.** : 7791-18-6
Mfg. Date : Feb-2021 **Exp. Date** : Jan-2026
HAZ. / P.G. : **UN No.** :

Sr.	Tests	Specifications	Results
1	Appearance	Colorless crystals or white crystalline powder	Colorless crystalline powder
2	Assay (titration)	Min 99.5%	99.52%
3	Melting point	About 116 deg C	117°C
4	pH (5% solution in water; 20°C)	5.0 - 6.5	6.08
5	Solubility in water at 20°C	About 1670 g/L	Passes test
6	DNAase/RNAase/Proteases	Not detectable	Not detectable
7	Water (by KF)	51 - 55%	51.05%
8	Ammonium (NH ₄)	Max 0.002%	0.0011%
9	Phosphate (PO ₄)	Max 0.0005%	0.0004%
10	Sulphate (SO ₄)	Max 0.002%	0.0017%
11	Arsenic (As)	Max 0.0001%	<0.0001%
12	Barium (Ba)	Max 0.002%	Nil
13	Calcium (Ca)	Max 0.005%	0.00038%
14	Iron (Fe)	Max 0.0005%	0.000025%
15	Potassium (K)	Max 0.001%	0.000053%
16	Manganese (Mn)	Max 0.0005%	Nil
17	Sodium (Na)	Max 0.001%	0.00028%
18	Lead (Pb)	Max 0.0005%	0.000011%

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


Jagruti B. Patil
QC Manager

LOBA CHEMIE PVT. LTD.

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LOBA/QC/FM/01

05/26.10.2021