



# Qualikems Lifesciences Pvt. Ltd.

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## CERTIFICATE OF ANALYSIS

|                          |                              |                         |               |
|--------------------------|------------------------------|-------------------------|---------------|
| <b>Name of Product</b>   | : Magnesium hydroxide powder | <b>CAS No.</b>          | : 1309-42-8   |
| <b>Molecular Formula</b> | : $Mg(OH)_2$                 | <b>Molecular Weight</b> | : 58.53g/mole |
| <b>Batch No.</b>         | : QF2609038                  | <b>Grade</b>            | : LR          |
| <b>Mfg. Date</b>         | : September-2026             | <b>Retest Date</b>      | : August-2031 |

| Sr. No. | Tests                                  | Specification            | Observation |
|---------|----------------------------------------|--------------------------|-------------|
| 1       | Appearance                             | White crystalline powder | Complies    |
| 2       | Assay (By complexometry)               | Min 95.0 – 100.5%        | 96.16 %     |
| 3       | Identity<br>IR spectrum                | To passes test           | passes test |
| 4       | Appearance of the solution             | To passes test           | passes test |
| 5       | Substances soluble in water            | < 1.0%                   | 0.5 %       |
| 6       | Substances insoluble<br>in acetic acid | < 0.1%                   | 0.03 %      |
| 7       | Impurities with alkaline reaction      | To passes test           | passes test |
| 8       | Carbonate                              | To passes test           | passes test |
| 9       | Chloride (Cl)                          | < 0.1%                   | < 0.1%      |
| 10      | Sulphate (SO <sub>4</sub> )            | < 0.1%                   | < 0.1%      |
| 11      | Heavy metals (as Pb)                   | < 0.001%                 | 0.0004 %    |
| 12      | Copper (Cu)                            | To passes test           | passes test |
| 13      | Arsenic (As)                           | 0.002 %                  | 0.001 %     |
| 14      | Calcium (Ca)                           | < 0.5 %                  | 0.2 %       |
| 15      | Loss on ignition (800°C)               | 30-32.5%                 | 31.12%      |
| 16      | Bulk density                           | about 50g/100ml          | Complies    |
| 17      | Loss on drying (105°C)                 | < 2%                     | 1.14%       |
| 18      | Microbiological test                   | To passes test           | passes test |
| 19      | Iron (Fe)                              | < 0.05%                  | < 0.05%     |

**Conclusion:** Product complies as per above specification.

**Note:** This document has been produced electronically and it is valid without signature.

Quality of our product tested and reported in the COA are as per the specification and without any prejudice/liability what so ever the end product performance.

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