

**CERTIFICATE OF ANALYSIS**

Thermo Fisher Scientific's Quality System has been found to conform to Quality Management System Standard ISO9001:2015 by Intertek Global Certificate Number. CERT-0120633

Catalogue Number M63  
 Lot Number 256418  
 Description MAGNESIUM SULFATE, HEPTAHYDRATE, A.C.S.  
 CAS Number 10034-99-8  
 Quality Test/Release Date 05/Jan/2026  
 Suggested retest date 30/Apr/2028  
 Country of Origin India  
 Declaration of Origin Inorganic-non animal  
 No animal products are used as starting raw material ingredients, or used in processing, including lubricants, processing aids, or any other material that might migrate to the finished product.  
 BSE/TSE

| Result Name               | Units     | Specifications              | Test Value                  |
|---------------------------|-----------|-----------------------------|-----------------------------|
| APPEARANCE                |           | REPORT                      | Colorless To White Crystals |
| AMMONIUM                  | %         | <= 0.002                    | <0.002                      |
| ASSAY                     | %         | Inclusive Between 98 - 102  | 99.8                        |
| CALCIUM                   | %         | <= 0.02                     | 0.02                        |
| CHLORIDE                  | ppm       | <= 5                        | <5                          |
| HEAVY METALS BY ICP-OES   | ppm       | <= 5                        | <5                          |
| IDENTIFICATION            | PASS/FAIL | = PASS TEST                 | PASS TEST                   |
| INSOLUBLE MATTER          | %         | <= 0.005                    | 0.002                       |
| IRON (Fe)                 | ppm       | <= 5                        | <5                          |
| MANGANESE (Mn)            | ppm       | <= 5                        | <5                          |
| NITRATE (NO3)             | %         | <= 0.002                    | 0.002                       |
| PH 5% SOLUTION @ 25 DEG C |           | Inclusive Between 5.0 - 8.2 | 7.2                         |
| POTASSIUM (K)             | %         | <= 0.005                    | <0.005                      |
| SODIUM (Na)               | %         | <= 0.005                    | <0.005                      |
| STRONTIUM (Sr)            | %         | <= 0.005                    | <0.005                      |



Harout Sahagian  
QC Manager

Products are processed under ISO 9001:2015 quality management systems and samples are tested for conformance to the noted specifications. Certain data may have been supplied by third parties. We disclaim the implied warranties of merchantability and fitness for a particular purpose, and the accuracy of third-party data or information associated with the product. Products are for research use or further manufacturing. Products are not for direct administration to humans or animals. It is the responsibility of the final formulator or end user to determine suitability, and to qualify and/or validate each product for its intended use.

Note: The data listed is valid for all package sizes of this lot of this product, expressed as an extension of the catalogue number listed above.