

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 252085
 Description MAGNESIUM SULFATE, HEPTAHYDRATE, A.C.S.
 CAS Number 10034-99-8
 Quality Test/Release Date 14/May/2025
 Suggested retest date 30/Nov/2027
 Country of Origin Japan
 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	100.2
CALCIUM	%	<= 0.02	<0.02
CHLORIDE	ppm	<= 5	1
HEAVY METALS BY ICP-OES	ppm	<= 5	<5
IDENTIFICATION	PASS/FAIL	= PASS TEST	PASS TEST
INSOLUBLE MATTER	%	<= 0.005	<0.005
IRON (Fe)	ppm	<= 5	<5
MANGANESE (Mn)	ppm	<= 5	1
NITRATE (NO3)	%	<= 0.002	<0.002
PH 5% SOLUTION @ 25 DEG C		Inclusive Between 5.0 - 8.2	5.7
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.