

CERTIFICATE OF ANALYSIS

Thermo Fisher Scientific's Quality System has been found to conform to Quality Management System Standard ISO9001:2015 by TUV SUD America Inc.
 Certificate Number. 951001163

Catalogue Number	033337
Lot Number	P181060
Description	Magnesium sulfate, anhydrous, 99.5% min
CAS Number	7487-88-9
Quality Test/Release Date	18/Mar/2022
Suggested retest date	18/Mar/2027
Country of Origin	Japan
Declaration of Origin	Other
BSE/TSE	Origin is not animal. Not directly derived from/manufactured with any animal byproducts in any way (including but not limited to fermentation or nutrient broth, catalysts, enzymes).

Result Name	Units	Specifications	Test Value
Assay (unspecified)	%	99.5% min	100.1
Form		Powder	Powder
Impurity content	%	0.003% Se max	<=0.003
Impurity content	%	0.014% Cl max	<=0.014
Impurity content	ppm	20 ppm Fe max	<=20
Loss on Drying	%	2% max	0.3
pH		5.0-9.2	8.8
Trace Metals	%	0.001% max	0.00005



Derek Roy
 Quality Manager, LCD

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 and development use only. 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.