

## CERTIFICATE OF ANALYSIS

Thermo Fisher Scientific's Quality System has been found to conform to Quality Management System Standard ISO9001:2015 by LRQA. Certificate Number. 10551915

Catalogue Number	A16244
Lot Number	A0475865
Description	Magnesium stearate
CAS Number	557-04-0
Quality Test/Release Date	16/Sep/2025
Suggested retest date	16/Sep/2030
Country of Origin	Netherlands
Declaration of Origin	Plant

Result Name	Units	Specifications	Test Value
Assay	%	Magnesium, Mg: 3.8-5.0% (Complexometric titration)	4.6
Assay	%	Stearic Palmitic acid: $\geq 90.0\%$ (GC)	99.0
Assay	%	Stearic acid: $\geq 40.0\%$ (GC)	67.5
Appearance (Color)		White to pale cream	White
Form		Powder	Powder
Identification (FTIR)		Conforms (non-U.S. specification)	Conforms
Impurity content	ppm	Cadmium, Cd: $\leq 3$ ppm	$\leq 1$
Impurity content	ppm	Chloride, Cl: $\leq 1000$ ppm ( $\leq 0.1\%$ )	$\leq 100$
Impurity content	ppm	Lead, Pb: $\leq 10$ ppm	$\leq 1$
Impurity content	ppm	Nickel, Ni: $\leq 5$ ppm	$\leq 1$
Impurity content	%	Sulfate, SO <sub>4</sub> : $\leq 1\%$	$\leq 0.5$
Loss on Drying	%	$\leq 6\%$ (105°C, non-U.S. specification)	3.3
Heavy Metals (as Pb)	ppm	$\leq 40$ ppm	$\leq 10$



Paul Coleman  
Site Quality 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 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.