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Product Master Specification

Item Name	Magnesium Lactate Anhydrous Nutrition Grade 80 Mesh (~11% Mg)
Product Code	NIGEMIN1005175
Product Type	Minerals
Issue Date	04-Jun-2026
Version	V01
QA Status	Final Approved
Intended use	Food use
Test	Specification
Organoleptic	
Appearance	White fine powder
Characteristics	
Identification	Positive for Lactate and Magnesium
Assay	98.0 - 102.0 %
Molecular Weight	202.44 gm/mol
Molecular Formula	C6H10MgO6
CAS No.	18917-93-6
Irradiation	Free
GMO	Free
BSE/TSE	Free
Product Specific Test	
Sulphate	<400ppm
Magnesium	~11%
Chloride	<200ppm
Physical/Chemical	
Particle Size	100% pass through 80 mesh
Solubility	Slightly soluble in water. Soluble in boiling water. Practically insoluble in ethanol (96%)
Clarity and Colour of Solution	Solution S is not more opalescent than reference suspension II and not more intensely colored than reference solution BY6
Loss on Drying	≤ 3.00 %
pH	6.5 - 8.5
Heavy Metals	
Heavy Metals Total	≤ 10.00 ppm

Lead (Pb)	≤ 3.00 ppm
Arsenic (As)	≤ 1.00 ppm
Cadmium (Cd)	≤ 1.00 ppm
Mercury (Hg)	≤ 0.10 ppm
Iron (Fe)	≤ 50.00 ppm
Microbiological	
Total Plate Count	<1000cfu/g
Yeast and Mould	<100cfu/g
Escherichia coli (E. coli)	Not detected / g
Salmonella	Not detected / 10g
Storage & Handling	
Storage	Store in a clean, cool, dry place at 5 - 25°C. Protect from humidity (RH < 60) and sunlight.
Preparation and/or handling before use or processing	Please ask our QA department for detailed instructions.
Transportation	Transportation suitable for dried food powders.
Packaging	All packaging meets EU regulations.
Shelf Life	3 years from manufacture if stored according to conditions above.
Approved by	Quality Department
Signed By	Chloe O'Flaherty
Disclaimer	All batches are fully in line with all requirements of the agreed specifications as standard, however not all parameters are tested per batch all of the time. Nutraceuticals Group guarantee all batches.
Template Version	NGEMNSPEC202408a
Nutritional (Typical) / 100g	
General Information	While Nutraceuticals Group strives to provide comprehensive information about all ingredients, the specific nutritional data for this product is currently not available. We recommend conducting further analysis if precise nutritional information is required for your product labelling.