Specification	DATE:	19.09.2025
Trimagnesium dicitrate anhydrous, E 345 (i)	TEST METHOD:	EP, USP

Item	Specification
Synonyms Product Description Appearance Solubility	Magnesium citrate tribasic; magnesium citrate, tertiary Anhydrous trimagnesium dicitrate powder in pharmaceutical and food quality White to almost white, practically odourless powder Practically insoluble in ethanol (96%) Easily soluble in diluted acids, soluble in water
Chemical formula	Mg3(C6H5O7)2
CAS no.	3344-18-1
EINECS	222-093-9
Physical properties	
Molecular weight Bulk density Appearance of solution Loss on drying (EP/E345(i)) Loss on drying (USP) Particle size	451.1 g/mol 550 g/l complies ≤3.5% ≤2.0% 100% Pass Through 80 mesh
Chemical properties	
Content Mg (dry basis, USP) Content Mg (dried substance, EP/E345(i)) Identification Oxalate Chloride Sulphate Calcium Iron Lead Cadmium Mercury Arsenic pH value (EP/E345(i))	14.5% - 16.4% 15.0% - 16.5% complies ≤280ppm ≤0.05% ≤0.2% ≤0.2% ≤100ppm ≤1.0ppm ≤0.1ppm ≤0.1ppm ≤1.0ppm 6.0 - 8.5

INFORMATION ABOVE AS RECEIVED FROM OUR SUPPLIER

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pH value (USP) Not identified material			5.0 - 9.0 complies					
Microbial properties								
Total aerobic microbial count Total yeast and mould count E. coli (absence/25g) Salmonella (absence/25g) Pseudomonas (absence/25g) S. aureus (absence)			≤500cfu/g ≤50cfu/g complies complies complies complies					
Nutritional Values			typical values per 100g					
Energy	**Carbohydrates**	**Sugars**	**Proteins**	**Fat**	**Sat. fatty acids**	**Dietary fibres**	**Organic acid**	**Salt**
295.2 kcal	0 g	0 g	0 g	0 g	0 g	0 g	75.0 g	0.02 g
Storage and Packaging								
Packing Storage conditions Shelf life			Paper bag with PP-inner bag of 25 kg net Keep closed, clean, dry at ambient temperature 5 years from production date (original unopened bag)					
Quality and Regulatory								
Production (certified) Packaging Compliance acc. to REACH registration Food & food supplement Food additive			ISO 9001 Regulation (EC) No 1935/2004, Art. 3 Not obligatory to registration acc. Regulation (EC) No 1907/2006, Art. 2, pt. 5 Listed in annex II of Directive 2002/46/EC Listed in annex of Regulation (EU) No 609/2013 Listed in annex II of Regulation (EC) No 1925/2006 E 345 (i) According to annex II of Regulation (EC) No 1333/2008					

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