Magnesium Bisglycinate

$Mg(C_2H_4NO_2)_2$ · CAS 14783-68-7 · 1:2 magnesium–glycine chelate, anhydrous basis

CATALOG TDS — CONFIRMED IN WRITING AT QUOTATION

CHEMICAL FORM	FORMULA	CAS	PRIMARY ASSAY
1:2 magnesium–glycine chelate, anhydrous basis	$Mg(C_2H_4NO_2)_2$	14783-68-7	13.5–14.2% (complexometric EDTA)
METHOD	**MINIMUM ORDER**	**LEAD TIME**	**STANDARD PACK**
Complexometric EDTA titration and HPLC	1 kg	1–7 days	1 kg foil pouch · 25 kg fiber drum

DESCRIPTION

A 1:2 magnesium–glycine chelate specified at 13.5–14.2% elemental magnesium, for capsules, tablets and powder blends where the form named on the label has to match the form in the drum.

SPECIFICATION

PARAMETER	SPECIFICATION	METHOD / NOTE
Magnesium (Mg)	13.5–14.2% (complexometric EDTA)	As stated
Glycine	84.0–88.0% (HPLC)	As stated
Mg : glycine ratio	1 : 2 molar (calculated)	As stated
Free glycine	≤1.0% (HPLC)	As stated
Appearance	White to off-white crystalline powder	As stated
pH (5% suspension)	8.5–11.5	As stated
Loss on drying	≤8.0%	As stated
Particle size	≥95% through 40 mesh	As stated
Bulk density	0.55–0.90 g/mL	As stated
Heavy metals	Pb ≤3 · As ≤2 · Cd ≤1 · Hg ≤0.1 mg/kg	As stated
Microbiology	APC ≤1,000 cfu/g · yeast and mould ≤100 cfu/g · E. coli and Salmonella absent	As stated
Marker set	Magnesium (13.5–14.2%), glycine (84.0–88.0%), Mg : glycine 1:2	Identity
Solubility	Soluble in water; the 5% suspension is alkaline (pH 8.5–11.5). Dissolution rate depends on particle size.	Matrix dependent

APPLICATIONS

- Capsules and tablets
- Powder sticks and drink mixes

AVAILABLE FORMS

- Crystalline powder, 40 mesh
- Milled to 80 mesh on request

- Gummies and chews
- Functional beverages
- Granulated on request

PACKING

- 1 kg foil pouch
- 25 kg fiber drum

STORAGE

Store in a cool, dry, well-ventilated area, away from direct sunlight and moisture. Keep the pack closed after sampling. The lot-specific retest date is shown on the batch COA.

DOCUMENTATION RELEASED WITH EACH LOT

- Batch-specific certificate of analysis
- Technical data sheet and safety data sheet
- Allergen, GMO, origin and residual-solvent statements
- Third-party reports on request

> **Catalog document.** This TDS describes the grade we can quote. The final specification, pack and documentation are confirmed in writing before the order. It is not a batch COA and does not report a result for a specific lot.

Shaanxi Rainwood Biotech Co., Ltd. · Rm 218, Tangxing Digital Bldg, #6 Tangxing Rd, Xi'an, Shaanxi, China
info@rainwoodbio.com · nutrition.rainwoodbio.com