Rainwood NUTRITION

SPECIMEN TDS
RN-SPEC-TDS-01 · 14783-68-7

Technical data sheet

Magnesium Bisglycinate · 1:2 magnesium–glycine chelate, anhydrous basis

SPECIMEN LAYOUT — THE RELEASED TDS FOLLOWS THE GRADE AND THE PACK.

CHEMICAL NAME	FORMULA	CAS	FORM
Magnesium bisglycinate	$Mg(C_2H_4NO_2)_2$	14783-68-7	1:2 magnesium–glycine chelate, anhydrous basis

APPEARANCE	SOLUBILITY
White to off-white, free-flowing crystalline powder	Soluble in water; the 5% suspension is alkaline (pH 8.5–11.5). Dissolution rate depends on particle size.

SPECIFICATION SUMMARY

PARAMETER	TYPICAL SPECIFICATION
Magnesium (Mg)	13.5–14.2% (complexometric EDTA)
Glycine	84.0–88.0% (HPLC)
Mg : glycine ratio	1 : 2 molar (calculated)
Free glycine	≤1.0% (HPLC)
Appearance	White to off-white crystalline powder
pH (5% suspension)	8.5–11.5

HANDLING AND STORAGE

- Store in the unopened, sealed pack in a dry room, away from direct sunlight.
- Reseal an opened pouch or drum liner promptly; the powder picks up moisture and cakes.
- Avoid dusting; use local extraction when weighing in a dose room.
- Do not store with strong oxidisers or acids.

PACKAGING

PACK	DETAIL
1 kg foil pouch	Food-grade liner, sealed, lot label; qualification and small-batch pack.
25 kg fiber drum	Food-grade liner, tamper-evident seal, lot label; production pack.
Pallet	Stretch-wrapped, lot labels visible, pallet record.

DOCUMENTATION

- Batch COA against the agreed specification.
- Safety data sheet in the 16-section format.
- Allergen, GMO and origin statements.
- Residual-solvent statement for the crystallisation system.

REGULATORY NOTE

In the EU, magnesium bisglycinate is listed in Annex II of Directive 2002/46/EC as a permitted magnesium source for food supplements. In the US, the exact form must be a lawful dietary ingredient under DSHEA. Labelling and claims are market-specific; the destination market's current text and the brand's regulatory review decide the label.

> **Specimen only.** This TDS is a format, not a released document for a specific lot. The released TDS follows the grade and the pack and is confirmed with the quotation.

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