

Magnesium Chelates Specification Sheet

Public technical specification for buyer documentation review

Source page: <https://www.naturalbestbio.com/magnesium-chelatesvc-magensiummagnesium-glycinatemagnesium-tauratemagnesium-aspartate.html>

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Field	Specification / note
Ingredient name	Magnesium Chelates platform — magnesium bisglycinate, magnesium taurate, magnesium L-aspartate, VC magnesium (magnesium ascorbate)
Magnesium bisglycinate	CAS 14783-68-7 · C 4 H 8 MgN 2 O 4 · 172.42 g/mol (anhydrous basis; commonly supplied as the dihydrate, hydration state stated on the specification sheet). Synonyms: magnesium glycinate, magnesium diglycinate, bis(glycinato)magnesium.
Magnesium taurate	CAS 334824-43-0 · C 4 H 12 MgN 2 O 6 S 2 · 272.57 g/mol. Synonyms: magnesium ditaurate, magnesium taurinate.
Magnesium L-aspartate	CAS 2068-80-6 (magnesium dihydrogen di-L-aspartate) · C 8 H 12 MgN 2 O 8 · 288.5 g/mol anhydrous, 324.5 g/mol as the dihydrate. CAS 18962-61-3 is also cited in the trade for magnesium L-aspartate; the applicable registry number, stereochemistry and hydration state for a given lot are stated on the specification sheet.
VC magnesium (magnesium ascorbate)	CAS 15431-40-0 · C 12 H 14 MgO 12 · 374.54 g/mol. Magnesium salt of L-ascorbic acid, supplying both magnesium and vitamin C in a single buffered, water-soluble salt. Synonyms: vitamin C magnesium salt, L-ascorbic acid magnesium salt. Identity confirmed on the specification sheet before order.
Assay / purity	Assay by titration or HPLC, with elemental magnesium content determined per lot and stated on the Certificate of Analysis. Grade options available on request; the exact assay and elemental magnesium specification are agreed per order.
Elemental magnesium basis	Elemental magnesium differs by form and by hydration state, so 500 mg of one chelate does not deliver the same magnesium as 500 mg of another. The declared elemental magnesium per gram is taken from the lot Certificate of Analysis, and the serving calculation should be built on that figure rather than on the salt weight.
Source / production route	Full reaction of a magnesium source with the corresponding ligand — glycine, taurine, L-aspartic acid or L-ascorbic acid — followed by drying and milling. Unreacted starting material and free ligand are controlled to the specification sheet limits; the applicable route is stated per form.
Appearance	White to off-white free-flowing powder or granule, depending on form and grade. VC magnesium is off-white to pale yellow.
Solubility	Water solubility differs by form: magnesium ascorbate is freely water-soluble, magnesium bisglycinate and magnesium taurate are sparingly to moderately soluble, and magnesium L-aspartate is water-soluble. Dissolution behaviour and taste profile should be confirmed for the intended dosage form and flavour system.
Powder properties	Bulk and tapped density, sieve analysis, loss on drying and flow data available per lot on request — these determine capsule count, tablet weight and stick-pack fill for what is a comparatively high-inclusion mineral.
Typical applications	Capsules, tablets, powder blends, stick packs, gummies and beverage formats for B2B nutraceutical manufacturing; granulated and taste-masked grades available for powder and stick formats
Documentation	Certificate of Analysis, specification sheet, identity confirmation, elemental magnesium assay, heavy metals, microbiological testing, residual solvents where applicable, allergen statement, GMO statement, particle size and bulk density data, and stability data
Stability / storage	Store in tightly closed containers in a cool, dry place. Magnesium ascorbate is moisture- and oxygen-sensitive as an ascorbate and should be protected accordingly; hygroscopicity differs by form and is noted on the specification sheet.
Quality system	ISO 22000:2018, FSSC 22000, HACCP and GMP (certificates provided on request)
Supplier	Nutrition BioTech, 1601 W. Mission Blvd, Suite 103 (DL#29), Pomona, CA 91766, United States

Public disclosure note: This public sheet is prepared from the current NaturalBestBio product-page specification block. It is not a batch-specific Certificate of Analysis. Lot-specific COA and supporting records are available for qualified buyer review when appropriate.