Magnesium Orotate

$C_{10}H_6MgN_4O_8 \cdot 2H_2O$ · CAS 34717-03-8 · Magnesium orotate dihydrate, powder

CATALOG TDS — CONFIRMED IN WRITING AT QUOTATION

CHEMICAL FORM	FORMULA	CAS	PRIMARY ASSAY
Magnesium orotate dihydrate, powder	$C_{10}H_6MgN_4O_8 \cdot 2H_2O$	34717-03-8	98.0–102.0%
METHOD	**MINIMUM ORDER**	**LEAD TIME**	**STANDARD PACK**
Complexometric titration and HPLC	1 kg	1–7 days	1 kg foil pouch · 25 kg fiber drum

DESCRIPTION

Magnesium orotate dihydrate specified at 98.0–102.0% with 6.4–6.8% elemental magnesium; the orotate counter-ion, the hydrate state and the magnesium figure are part of the specification.

SPECIFICATION

PARAMETER	SPECIFICATION	METHOD / NOTE
Assay (HPLC)	98.0–102.0%	As stated
Magnesium (titration)	6.4–6.8%	As stated
Appearance	White to off-white powder	As stated
Identification	IR and HPLC conform	As stated
Water (Karl Fischer)	9.0–11.0%	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
Particle size	≥95% through 40 mesh	As stated
Marker set	Magnesium orotate dihydrate 98.0–102.0%; Mg 6.4–6.8%	Identity
Solubility	Slightly soluble in water; the solubility is low compared with the citrate or the lactate.	Matrix dependent

APPLICATIONS

- Capsules and tablets
- Powder blends

AVAILABLE FORMS

- Powder, 40 mesh
- Granulated on request

PACKING

- 1 kg foil pouch

STORAGE

• 25 kg fiber drum	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.

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