Zinc Gluconate

$C_{12}H_{22}O_{14}Zn$ · CAS 4468-02-4 · Zinc gluconate, crystalline

CATALOG TDS — CONFIRMED IN WRITING AT QUOTATION

CHEMICAL FORM	FORMULA	CAS	PRIMARY ASSAY
Zinc gluconate, crystalline	$C_{12}H_{22}O_{14}Zn$	4468-02-4	97.0–102.0% (complexometric EDTA)
METHOD	MINIMUM ORDER	LEAD TIME	STANDARD PACK
Complexometric EDTA titration	1 kg	1–7 days	1 kg foil pouch · 25 kg fiber drum

DESCRIPTION

Zinc gluconate specified at 97.0–102.0% on the anhydrous basis and 12.5–14.0% elemental zinc, for capsules and tablets where the gluconate salt and the taste profile matter.

SPECIFICATION

PARAMETER	SPECIFICATION	METHOD / NOTE
Assay (anhydrous basis)	97.0–102.0% (complexometric EDTA)	As stated
Zinc (Zn)	12.5–14.0% (complexometric EDTA)	As stated
Appearance	White to off-white crystalline powder	As stated
Identification	Zinc and gluconate reactions conform	As stated
pH (10% solution)	6.0–7.5	As stated
Loss on drying	≤1.0%	As stated
Particle size	≥95% through 80 mesh	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	Zinc (12.5–14.0%); assay 97.0–102.0% anhydrous	Identity
Solubility	Freely soluble in water; the 10% solution is close to neutral (pH 6.0–7.5).	Matrix dependent

APPLICATIONS

- Capsules and tablets
- Powder sticks and drink mixes
- Gummies and chews

AVAILABLE FORMS

- Crystalline powder, 80 mesh
- Granulated on request
- Milled to 100 mesh 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