Biotin

$C_{10}H_{16}N_2O_3S$ · CAS 58-85-5 · D-biotin, crystalline

CATALOG TDS — CONFIRMED IN WRITING AT QUOTATION

CHEMICAL FORM	FORMULA	CAS	PRIMARY ASSAY
D-biotin, crystalline	$C_{10}H_{16}N_2O_3S$	58-85-5	97.5–102.0% (HPLC)
METHOD	**MINIMUM ORDER**	**LEAD TIME**	**STANDARD PACK**
HPLC	1 kg	1–7 days	1 kg foil pouch · 25 kg fiber drum

DESCRIPTION

D-biotin specified at 97.5–102.0% by HPLC, for capsules, tablets and powder blends where the low dose makes the dilution, the assay and the blend uniformity the real specification.

SPECIFICATION

PARAMETER	SPECIFICATION	METHOD / NOTE
Assay	97.5–102.0% (HPLC)	As stated
Appearance	White crystalline powder	As stated
Identification	IR conforms	As stated
Specific rotation	+89° to +93° (2% in 0.1 M NaOH)	As stated
Loss on drying	≤1.0%	As stated
Residue on ignition	≤0.1%	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 80 mesh	As stated
Marker set	D-biotin (97.5–102.0%, HPLC)	Identity
Solubility	Sparingly soluble in water; soluble in dilute alkali. The low dose usually needs a dilution.	Matrix dependent

APPLICATIONS

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

AVAILABLE FORMS

- Crystalline powder, 80 mesh
- 1% or 2% dilution on request
- 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.

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