

D-Biotin

Water-soluble vitamin – Vitamin H/B7

Product Description

D-Biotin (Vitamin B7/H) is used in hair, skin and nail nutraceuticals and pharmaceutical formulations. Available in 1% and 2% dilutions to BP/USP standards.

Certificate of Analysis

HSN Code: 2936.29

CAS Number: 58-85-5

Classification: Pharmaceutical API / Nutraceutical

Parameter	Specification	Test Method
Appearance	White to off-white crystalline powder	Visual
Assay	97.5–100.5%	HPLC
Identification	Conforms to reference standard	IR
Melting Point	229–232°C	USP <741>
Loss on Drying	"d 1 . 0 %	USP <731>
Residue on Ignition	"d 0 . 2 %	USP <281>
Optical Rotation (0.1N NaOH)	+89° to +93°	USP <781>
Heavy Metals	"d 2 0 p p m	USP <231>

Physical Properties

Appearance: White to off-white crystalline powder

Molecular Formula: $C_{10}H_{16}N_2O_6$

Molecular Weight: 244.31 g/mol

Solubility: Slightly soluble in water; freely soluble in dilute alkali; slightly soluble in ethanol

Melting Point: 229–232°C

Packing: 25 kg HDPE drums with inner polyethylene liner; 1 kg, 5 kg aluminium foil pouches

Storage: Store in a cool, dry, well-ventilated area away from light and moisture. Below 25°C.

Safety & Handling

PPE: Gloves, safety goggles, dust mask, lab coat

Hazards:

- Avoid dust inhalation
- Mild irritant