

SPECIFICATION

D-Biotin Pure Feed Grade

Production site

Zhejiang NHU Pharmaceutical Co. Ltd.

Description

Ingredients

The feed additive consists of D-(+)-Biotin (3a880)

Synonym

5-[(3aS,4S,6aR)-2-oxohexahydrothieno[3,4-d]imidazol-4-yl]pentanoic acid, Vitamin H, Biotin

Formula

C₁₀H₁₆N₂O₃S

Product code

SLVH01

CAS No

58-85-5

Properties

Shelf life

36 months after production date in unopened original packaging

Appearance

A white or almost white, crystalline powder or colourless crystals

Appearance of solution

clear and colourless of 10g/L in 4 g/L solution of sodium hydroxide

Assay (Titration, 0,1 N NaOH)

98,5 % - 101,0 %

Loss on drying

≤ 1,0 %

Solubility

Very slightly soluble in water and in alcohol, practically insoluble in acetone. It dissolves in diluted solutions of alkali hydroxides.

Identification

A

IR

B

TLC

C

Reaction with bromine water

Specific optical rotation

+ 89° - + 93°

Melting point

229 °C – 232 °C (FCC)

Sulphated ash

≤ 0,1 %

Related substances

PhEur: TLC: Any impurity obtained in test sol. (a) shall not be more intense than that in ref (b) (0,5 %) and at most one of ref (c) (0,25 %)

Organic volatile impurity

Meets USP requirements

Heavy metals

≤ 10 mg/kg

Lead (Pb)

≤ 2 mg/kg

Arsenic (As)

≤ 1 mg/kg

Cadmium (Cd)

≤ 1 mg/kg

Mercury (Hg)

≤ 0,1 mg/kg

Handling

Usage and Dosage

as per latest version of European feedstuff law

Stability

The product is fairly stable to air, heat and light

Storage

Store in a tight container in a dry place

Transport instructions

See our latest safety data sheet

The product meets the requirements of EP 9.4.

NHU EUROPE GmbH