

## SPECIFICATION

## D-Biotin Pure Feed Grade

### Description

Ingredients  
 Synonym

The feed additive consists of D-(+)-Biotin (3a880)  
 5-[(3aS,4S,6aR)-2-oxohexahydrothieno[3,4-d]imidazol-4-yl]pentanoic acid, Vitamin H, Biotin

Formula  
 Product code  
 CAS No

C<sub>10</sub>H<sub>16</sub>N<sub>2</sub>O<sub>3</sub>S  
 SLVH01  
 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

Lead (Pb)  
 Arsenic (As)  
 Cadmium (Cd)  
 Mercury (Hg)

≤ 10 mg/Kg  
 ≤ 2 mg/Kg  
 ≤ 1 mg/Kg  
 ≤ 1 mg/Kg  
 ≤ 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

The product meets the requirements of EP 9.4.

## NHU EUROPE GmbH

*Biotin pure/SLVH01/freigegeben: 150422/hky*