

## SPECIFICATION

## D-Biotin Pure Feed Grade

### Description

Ingredients	The feed additive consists of D-(+)-Biotin (3a880)
Synonym	5-[(3a <i>S</i> ,4 <i>S</i> ,6a <i>R</i> )-2-oxohexahydrothieno[3,4- <i>d</i> ]imidazol-4-yl]pentanoic acid, Vitamin H, Biotin
Formula	C <sub>10</sub> H <sub>16</sub> N <sub>2</sub> O <sub>3</sub> S
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

Lead (Pb)	≤ 10 mg/Kg
Arsenic (As)	≤ 2 mg/Kg
Cadmium (Cd)	≤ 1 mg/Kg
Mercury (Hg)	≤ 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: 290321/hky*