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TO WHOM IT MAY CONCERN

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Bardowick, September 2018

## SPECIFICATION

### D-Biotin Pure Feed Grade USP40/EP9.0

#### Ingredients

Description

Product can be used as feed additive which consists of Biotin (3a880)

Synonym

1H-Thieno[3,4-d]imidazole-4-pentanoic acid; Vitamin H; Biotin

Formula

$C_{10}H_{16}N_2O_3S$

Product code

SLVH01

CAS No

58-85-5

#### Properties

Shelf life

36 months after production date in unopened original packaging

Aspect

A white or almost white, crystalline powder or colourless crystals, clear and colourless of 10g/L in 4 g/L solution of sodiumhydroxide

Assay (Titration, 0,1 N NaOH)

98,5 % - 100,5 %

Assay (HPLC)

97,5 % - 100,5 %

Loss on drying

max. 0,5 %

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

The Reaction with bromine water (HPLC) The retention time of the major peak of the sample solution corresponds to that of the standard solution, as obtained in the Assay

Specific optical rotation

+ 89° - + 93 ° (PhEur, USP, FCC)

Melting point

229 °C – 232 °C (FCC)

Sulphated ash

Max. 0,1 %

Heavy metals

Max. 10 mg/Kg

Arsenic (As)

Max. 1 mg/Kg



Lead (Pb)	Max. 2 mg/Kg
Mercury (Hg)	Max. 0,1 mg/Kg
Cadmium (Cd)	Max. 1,0 mg/Kg
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 %) USP: HPLC: Individual impurity not more than 1,0 %; total impurities not more than 2,0 %
Organic volatile impurity	Meets USP requirements
<b>Handling</b>	
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
MSDS	Yes
classified as hazardous as per EU regulation	No

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