

Biotin (vitamin H)



IDK[®] Biotin ELISA

**ELISA for the in vitro determination of biotin
in serum, plasma, urine and milk**

- ▶ Measuring range: 48.1–1100 ng/L
- ▶ All reagents ready to use
- ▶ No pre-dilution of the samples

Biotin (vitamin H)

Biotin is a water-soluble B vitamin, also called vitamin B₇ and formerly known as vitamin H or coenzyme R.

Biotin is an important component of enzymes involved in metabolising fats and carbohydrates, influencing cell growth, and affecting amino acids involved in protein synthesis. Biotin assists in various metabolic reactions involving the transfer of carbon dioxide. Some metabolic disorders occur when the cofactor function of biotin (e.g. holocarboxylase synthase linking biotin onto the carboxylase) does not work properly. It may also be helpful in maintaining a steady blood sugar level.

Biotin (vitamin H) is present in bacteria, fungi, plants and animals. In food, the major part of biotin is covalently bound to protein (biotin + protein = biocytin), leaving only a minor fraction freely available. During digestion, biocytin (biotinyl-lysine) is released from proteins and can be resorbed as easily as biotin from the intestinal tract. Afterwards, biotin is dissolved from biocytin by the enzyme biocytinase in erythrocytes and plasma. It is then available as prosthetic group for a series of biotin-dependent enzymes.

The daily requirement of biotin is difficult to estimate because a healthy intestinal flora supplies a major part of biotin by endogenous synthesis. The daily dose for adults recommended in general is 100–200 µg. Chronic hemodialysis patients show clear improvements of neuropathological status and glucose metabolism when supplemented with biotin in a milligram range.

Biotin deficiency can be caused by e.g. destruction of the intestinal flora or extreme diets. It can lead to dermatitis, hair loss, anorexia, depression and reproduction problems.

IDK® Biotin (K 8141)	
Test principle	ELISA
Matrix	Serum, plasma, urine, milk
Sample volume	50 µl
Incubation	30 min; 30 min; 10–15 min



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