

Specification

**D(+)-Biotin *BioChemica***

**A0969**

<b>Solubility:</b>	0.2 g/L (H <sub>2</sub> O)
<b>Physical Description:</b>	Solid
<b>Product Code:</b>	A0969
<b>Product Name:</b>	D(+)-Biotin <i>BioChemica</i>
<b>Specifications:</b>	<p>Assay (titr.): min. 99 %</p> <p><math>\alpha</math>20°C/D; 1 %, 0.1 N NaOH: +89° - +93°</p> <p>Heavy metals (as Pb): max. 0.001 %</p> <p>Loss on drying: max. 1 %</p>
<b>WGK:</b>	1
<b>Storage:</b>	2-8°C
<b>Molecular Formula:</b>	C <sub>10</sub> H <sub>16</sub> N <sub>2</sub> O <sub>3</sub> S
<b>M:</b>	244.31 g/mol
<b>CAS:</b>	58-85-5
<b>EINECS:</b>	200-399-3
<b>CS:</b>	29362900
<b>Comment</b>	<p>The highly specific affinity of Biotin to Avidin is used for the purification of Avidin from albumins. For affinity chromatography Biotin is often fixed on a Sepharose matrix with a Poly-L-Lysin spacer (ref. 2). The Biotin Avidin (Streptavidin) system has many advantages for the purification of factors, if one of the components is coupled to the factor. Biotin is soluble in hot water, diluted acids and bases. It is insoluble in cold water, ethanol, ether and chloroform.</p>
<b>Bibliography</b>	<p>(1) Knappe, J. (1970) <i>Ann. Rev. Biochem.</i> <b>39</b>, 757-776 Review article\; Mechanism of Biotin action. (2) Bayer, E. &amp; Wilchek, M. (1974) <i>Methods Enzymol.</i> <b>34 B</b>, 265-267 Insolubilized Biotin for the purification of Avidin.</p>

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