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## Data Sheet

# Biotin

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<b>Description</b>	<b>Biotin binds to the biotin-binding pockets of streptavidin, Strep-Tactin<sup>®</sup>, and Strep-Tactin<sup>®</sup>XT with different affinities. As a result, it allows the efficient elution of Strep-tag<sup>®</sup>II or Twin-Strep-tag<sup>®</sup> fusion proteins from Strep-Tactin<sup>®</sup>XT, while maintaining the reusability of the resin. It can be used for preparation of Strep-Tactin<sup>®</sup>XT elution buffer, Buffer BXT. In addition, biotin can be used for elution of biotinylated proteins from Strep-Tactin<sup>®</sup>, where it binds irreversibly to the resin. Hence, Strep-Tactin<sup>®</sup> cannot be regenerated in this kind of application.</b>
<b>Full Name/CAS-No.</b>	Biotin (vitamin B7, vitamin H, coenzyme R), 58-85-5
<b>Formula</b>	C <sub>10</sub> H <sub>16</sub> N <sub>2</sub> O <sub>3</sub> S
<b>MW</b>	244.3 g/mol
<b>Form</b>	Powder
<b>Stability</b>	12 months after shipping
<b>Storage</b>	Recommended: 2-8 °C
<b>Shipping</b>	Room temperature
<b>Hazards</b>	Product is not classified as hazardous according to (EC) No 1272/2008 [CLP]. A Material Safety Data Sheet is provided.
<b>Application</b>	Biotin only dissolves under alkaline conditions, but during the solvation process, the pH value of the buffer decreases. Therefore, the pH value needs to be continuously measured and occasionally adjusted to approximately pH 8 with sodium hydroxide.

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