



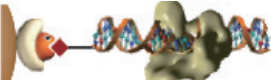
# BeaverBeads™ Streptavidin

Currently, there are 5 BeaverBeads™ streptavidin products available. Researchers should make a choice based on the samples and targets of experiments. Buffer and solution systems also make a difference.

## Product Information

Product name	Binding capacities	Properties	Applications
22306	<ul style="list-style-type: none"> <li>•800 pmol free biotin/mg beads</li> <li>•15 µg biotinylated IgG/mg beads</li> <li>•400 pmol biotinylated ss oligonucleotide(24nt)/mg beads</li> </ul>	<ul style="list-style-type: none"> <li>5µm diameter</li> <li>Polymer matrix</li> <li>Hydrophilic bead surface</li> </ul>	<ul style="list-style-type: none"> <li>Immunoassay,</li> <li>Cell activation</li> </ul>
22307	<ul style="list-style-type: none"> <li>•1100 pmol free biotin/mg beads</li> <li>•20 µg biotinylated IgG/mg beads</li> <li>•500 pmol biotinylated ss oligonucleotide(24nt)/mg beads</li> </ul>	<ul style="list-style-type: none"> <li>1 µm diameter</li> <li>Polymer matrix</li> <li>Hydrophilic bead surface</li> </ul>	<ul style="list-style-type: none"> <li>Immunoassay,</li> <li>Nucleic acid probe capture,</li> <li>Chemiluminescence,</li> <li>Cell isolation</li> </ul>
22308	<ul style="list-style-type: none"> <li>•15 µg biotinylated IgG/mg beads</li> <li>•450 pmol biotinylated ss oligonucleotide(24nt)/mg beads</li> </ul>	<ul style="list-style-type: none"> <li>300 nm diameter</li> <li>Polymer matrix</li> <li>Hydrophilic bead surface</li> </ul>	<ul style="list-style-type: none"> <li>Cell isolation</li> </ul>
22309	<ul style="list-style-type: none"> <li>•15 µg biotinylated IgG/mg beads</li> <li>•450 pmol biotinylated ss oligonucleotide(24nt)/mg beads</li> </ul>	<ul style="list-style-type: none"> <li>2.8 µm diameter</li> <li>Polymer matrix</li> <li>Hydrophilic bead surface</li> </ul>	<ul style="list-style-type: none"> <li>Immunoassay,</li> <li>Chemiluminescence</li> </ul>
22321	<ul style="list-style-type: none"> <li>•4 mg biotinylated IgG/mL gel</li> </ul>	<ul style="list-style-type: none"> <li>10-30 µm diameter</li> <li>Agarose matrix</li> <li>Hydrophilic bead surface</li> </ul>	<ul style="list-style-type: none"> <li>Purification of biopharmacy samples</li> </ul>

## Applications

Legend	Application direction	Sketch
	<ul style="list-style-type: none"> <li>Immunoassay,</li> <li>Separation of protein,</li> <li>cell sorting, etc.</li> </ul>	BeaverBeads™ Streptavidin can specifically bind biotinylated antibody or antigen, as immune detection, ELISA solid-phase reaction carrier, or used for sorting cells
	<ul style="list-style-type: none"> <li>Isolated nucleic acid,</li> <li>Preparation of Nucleic acid probes</li> </ul>	BeaverBeads™ Streptavidin can specifically combine biological nucleic acid probe in the hybridization experiments that widely used in DNA, RNA.
	<ul style="list-style-type: none"> <li>DNA-Study on protein</li> <li>Interaction protein</li> </ul>	BeaverBeads™ Streptavidin specifically targets with biotinylated DNA or RNA fragments can be used to study the interaction between proteins and nucleic acids.

## Rapid binding with biotinylated targets

- Dispersion medium with no need of centrifugation, precipitation, or columns
- Fast reaction kinetics and strong binding affinity
- Consistent physical and chemical properties
- Automated isolation of biotinylated biomolecules

### Simple Operation

Experiments with magnetic beads can be way simpler than those with traditional columns. Complicated and tiring centrifugation and filtration steps are unnecessary in this matter. Magnetic beads method makes the separation of targets and impurities easier and the automated process possible.

### Rapid reactions and outstanding specificity

The combination of streptavidin on the magnetic beads and biotinylated targets can be very stable since the association constant is  $10^{15}$ . In addition, the in-solution reaction shows high kinetics as well. BeaverBeads™ appears perfect sphere shape under SEM and has large specific area. These characteristics lead to high binding capacity of the beads.



### High sensitivity and low background signal

BeaverBeads™ Streptavidin products have high streptavidin content and thus are able to combine with large amounts of biotinylated molecules. In addition, 2-step blocking is applied to ensure the minimum sites for non-specific adsorption on the bead surface.

### Reproducible results

Attention is always paid to important parameters including bead size distribution, specific area, magnetism, binding capacity, and nonspecific adsorption. In order to ensure the stable performance, washing steps are essential to remove the physically-adsorbed streptavidin. Thus the variations between each batch are decreased.



## Product List

Cat.No.	Product Name	Size
22306-1	BeaverBeads™ Streptavidin	1 mL, 10 mg/mL, 300 nm
22306-10		10 mL, 10 mg/mL, 300 nm
22306-100		100 mL, 10 mg/mL, 300 nm
22307-1		1 mL, 10 mg/mL, 1 μm
22307-10		10 mL, 10 mg/mL, 1 μm
22307-100		100 mL, 10 mg/mL, 1 μm
22308-1		1 mL, 10 mg/mL, 300 nm
22308-10		10 mL, 10 mg/mL, 300 nm
22308-100		100 mL, 10 mg/mL, 300 nm
22309-1		1 mL, 10 mg/mL, 2.8 μm
22309-10		10 mL, 10 mg/mL, 2.8 μm
22309-100		100 mL, 10 mg/mL, 2.8 μm
22321-5		5 mL, 20% (v/v), 10-30 μm
22321-10		10 mL, 20% (v/v), 10-30 μm
22321-50		50 mL, 20% (v/v), 10-30 μm



more information

Focus on International Official Website

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