

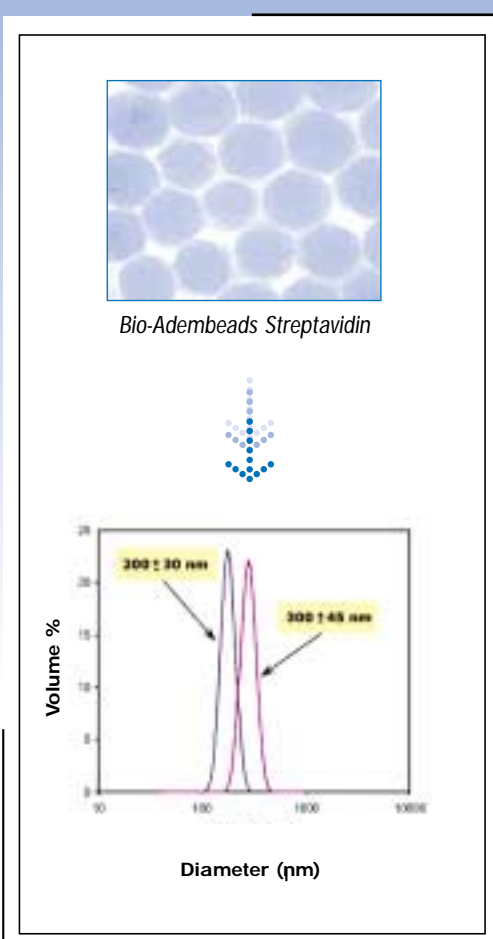
### // Bio-Adembeads Streptavidin: unlimited possibilities //



#### Streptavidin-Biotin

Streptavidin is a tetrameric protein which binds very tightly to the small molecule, biotin. The high affinity of the protein to biotin ( $K_a \approx 10^{13} \text{ M}^{-1}$ ) has made the streptavidin/biotin system the focus of a number of studies. Each monomer of streptavidin binds one molecule of biotin. Another interest of the streptavidin/biotin couple lies in the large range of temperature and pH conditions that the bound complex can tolerate. Furthermore the large surface area offered by our magnetic beads increases the efficiency of our tool for many applications.

#### Bio-Adembeads Streptavidin



#### Monodispersity = the key to precision

- Predictable binding characteristics
- Precise delivery of solid phase

#### No sedimentation or aggregation

- The specific surface area on each particle is kept
- No irritating manual or automated procedures necessary

#### Large surface area

- 200 and 300 nm particles give 15 and 10 m<sup>2</sup>/g specific surface area
- High binding capacity: more than 600 pmole/mg for 200 nm

#### The particles core: high percentage of magnetic iron oxide (>70%)

- Rapid separation under magnetic field
- No loss of target elements
- All bound material is captured

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#### "Ready to use" for many applications

Our streptavidin-coated superparamagnetic nanoparticles provide a very easy system for biotinylated target molecules isolation:

#### DNA separation and mRNA purification

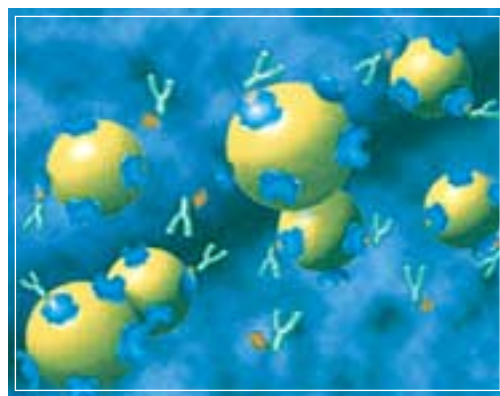
Very simple and quick with streptavidin coated Adembeads, without centrifugation step as it is the case with other beads.

#### Proteins purification

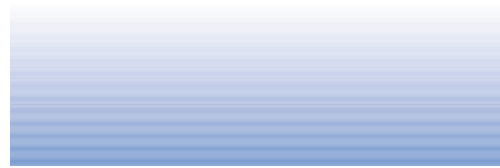
The nanometric size of Bio-Adembeads Streptavidin offers an increased surface area for biotinylated primary antibodies fixation and other biotinylated proteins.

#### Cell sorting

Immuno-magnetic cell sorting is an interesting option that does not require any specific equipment allowing to get other formats of cell separation and enrichment (flow cytometric).



Easy targeting with biotinylated antibodies



Bio-Adembeads				
Functionality	Particle Diameter (nm)	Product Description	Volume	Code Number
STREPTAVIDIN	200	(Streptavidin) functionality binding capacity > 600 pmole/mg 0,5% solid content	0,5 ml	03120
			1 ml	03121
			5 ml	03122
			10 ml	03123
	300	(Streptavidin) functionality binding capacity > 300 pmole/mg 0,5% solid content	0,5 ml	03130
			1 ml	03131
			5 ml	03132
			10 ml	03133