

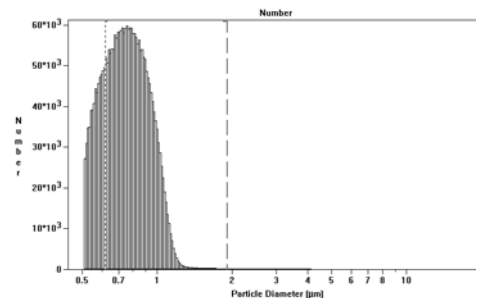


## M-PVA SAVx *for research only*

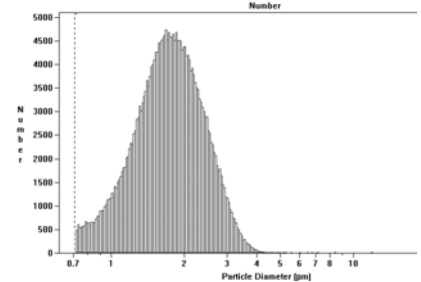
Streptavidin coated M-PVA Magnetic Beads

**Standard Bead Sizes<sup>1</sup>:**  
*indicated by the last number (1 or 2)  
 in the product name*

**M-PVA SAV1:** 0.5 – 1.0  $\mu\text{m}$



**M-PVA SAV2:** 1.0 – 3.0  $\mu\text{m}$



**Standard Package Size<sup>2</sup>:** 2 x 1 ml bead suspension

**Concentration:** 25 mg/ml

**Standard Magnetite Content:** 50 - 60 %

**Storage:** at 4 °C in PBS-buffer pH 7.2; 0.1 % bovine serum albumine (for stabilization); 0.05 % sodium azide

**Binding Capacity:**

- M-PVA SAV1:** 30 - 50 pmol biotinylated protein/mg beads  
 at least 400 pmol biotinylated oligonucleotide/mg beads  
 600 pmol free biotin/mg beads
- M-PVA SAV2:** 30 - 40 pmol biotinylated protein/mg beads  
 at least 300 pmol biotinylated oligonucleotide/mg beads  
 520 pmol free biotin/mg beads

<sup>1</sup> other beads sizes on request

<sup>2</sup> other package sizes or bulk ware on request

*Further Questions?*

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**Properties:**

Streptavidin is immobilized covalently on the surface of superparamagnetic polyvinyl alcohol beads. These beads have a polydisperse size distribution (Coulter-output).

The high content of magnetite permits the rapid separation of biotinylated target molecules. Because of the hydrophilic nature of the polyvinylalcohol matrix unspecific binding properties are reduced to a minimum.

**Immobilization Protocol**

1. Shake bead suspension vigorously and transfer calculated amount.
2. Magnetically separate until the supernatant is clear and wash twice with double volume of binding buffer. To get optimal separation results particularly for nucleic acid separation it is recommended to use a binding buffer containing a final salt concentration of at least 0.75 mol/l sodium chloride.
3. Resuspend the prewashed beads with binding buffer to a final concentration of about 4 mg/ml.
4. Add an equal volume of a solution of the biotin-labeled target molecule in binding buffer.
5. Incubate at room temperature using gently rotating or occasional mixing for 15 - 30 minutes. For complete separation working with very low concentrations of biotinylated substance the incubation time should be increased to 1 - 2 hours.
6. Wash three times with double volume of binding buffer and resuspend in an appropriate storage buffer.

*Further Questions?*

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