

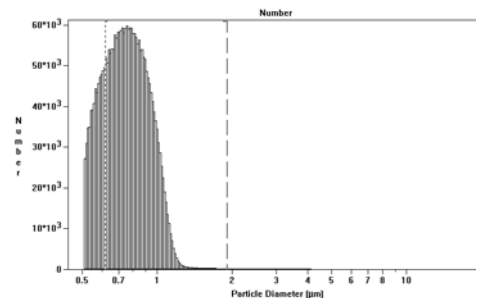


M-PVA A0x *for research only*

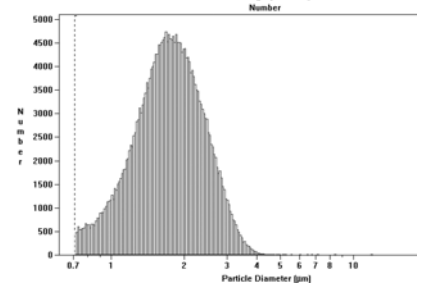
aldehyde functionalised M-PVA Magnetic Beads

Standard Bead Sizes¹:
*indicated by the last number (1 or 2)
in the product name*

M-PVA A01: 0.5 – 1.0 μm



M-PVA A02: 1.0 – 3.0 μm



Standard Package Size²: 10 ml bead suspension

Concentration: 50 mg/ml

Standard Magnetite Content: 50 - 60 %

Storage: in PBS pH 7.2 (containing 0.02 % sodium azide)

Stability: at least 1 month at 4 °C.

Activation degree: **M-PVA A01:** 250 $\mu\text{mol CHO/g}$

M-PVA A02: 220 $\mu\text{mol CHO/g}$

Binding Capacity: **M-PVA A01:** 5 - 10 mg protein/g

M-PVA A02: 5 - 8 mg protein/g

¹ other beads sizes on request

² other package sizes or bulk ware on request

Further Questions?

Phone +49 (0) 2401 805-501

**chemagen technical
support**

Mail support@chemagen.de



Properties:

These superparamagnetic beads consist of a matrix of polyvinyl alcohol, which is subsequently activated by the introduction of aldehyde functionalities. M-PVA A0x can therefore be used for the direct binding of proteins or other ligands containing amino functionalities. Their high magnetite content permits a rapid separation process. The beads have a polydisperse size distribution.

Standard Coupling Protocol

1. Shake bead suspension vigorously and transfer .
2. Magnetically separate until the supernatant is clear and wash twice with double volume of coupling buffer (e.g. 0,1 M sodium phosphate buffer pH 6-7).
3. Dissolve calculated amount of protein in coupling buffer.
4. Resuspend and rotate for at least 12 hours at room temperature or 24 hours at 4 °C.
5. Wash twice with double volume of coupling buffer.
6. Resuspend in quenching buffer (e.g. 0,05 M Tris-Puffer, containing 0,1 % ethanolamine or glycine, pH 7-8) and rotate for at least one hour at room temperature.
7. Wash three times with storage buffer (e.g. PBS or Tris-buffer containing 0,1 % BSA), resuspend in storage buffer and store at 4 °C.

! *Do not dry bead suspensions to avoid decreasing binding capacity.*

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