

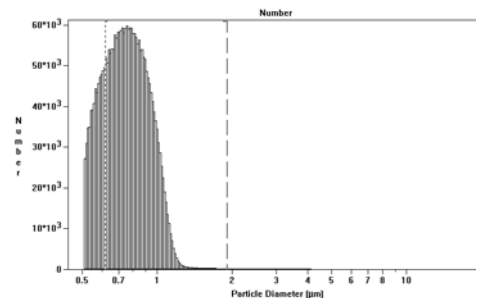


## M-PVA A0x *for research only*

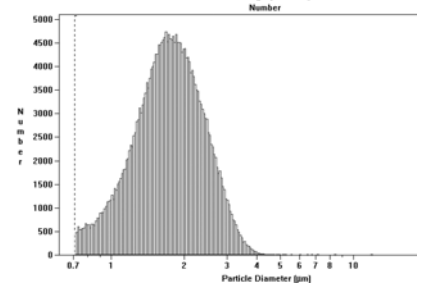
aldehyde functionalised M-PVA Magnetic Beads

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

**M-PVA A01:** 0.5 – 1.0  $\mu\text{m}$



**M-PVA A02:** 1.0 – 3.0  $\mu\text{m}$



**Standard Package Size<sup>2</sup>:** 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



**MD Scientific is authorized distributor in  
Denmark for Chemagen**

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<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:**

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.*

*Further Questions?*

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