

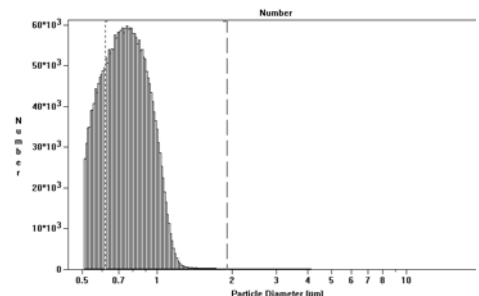


M-PVA Ak1x *for research only*

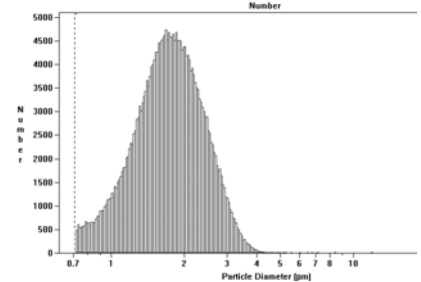
NHS activated M-PVA Magnetic Beads

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

M-PVA Ak11: 0.5 – 1.0 μm



M-PVA Ak12: 1.0 – 3.0 μm



Standard Package Size²: 2 x 1 ml bead suspension

Concentration: 25 mg/ml

Standard Magnetite Content: 50 - 60 %

Storage: in isopropanol

Stability: at least 1 month at 4 °C.

Activation degree: **M-PVA Ak11:** 390 $\mu\text{mol NHS/g}$

M-PVA Ak12: 350 $\mu\text{mol NHS/g}$

Binding Capacity: **M-PVA Ak11:** 8 - 20 mg protein/g

M-PVA Ak12: 5 - 15 mg protein/g

¹ other beads sizes on request

² other package sizes or bulk ware on request

Further Questions?

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 support**

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Properties:

These superparamagnetic beads consist of a matrix of carboxylated polyvinyl alcohol, which is subsequently activated with N-hydroxy-succinimidyl (NHS) ester functionalities and can therefore be used for the direct coupling of proteins, nucleic acids or other ligands with amino functionalities.

Standard Coupling Protocol

1. Shake bead suspension vigorously and transfer calculated volume to a reaction flask.
2. Magnetically separate until the supernatant is clear and wash twice with double volume of cold buffer (e.g. 0,05 M MES, pH 5-6). The wash buffer should have a pH below 7 to avoid hydrolysis of NHS-ester functionalities.
3. Wash rapidly with cold coupling buffer (e.g. MES, MOPS, HEPES; 0,02-0,1 M; pH 6,5-8).
4. Dissolve calculated amount of protein in coupling buffer and add protein solution to the prewashed beads.
5. Shake vigorously and rotate at least 2 hours at room temperature or 12 hours at 4 °C.
6. Wash twice with double volume of coupling buffer.
7. Add double volume of quenching solution (e.g. 0,05 M Tris with 0,1 % ethanolamine or glycine; pH 7,5-8,5) and rotate at least one hour at room temperature.
8. Wash three times in storage buffer (e.g. PBS or Tris with 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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