

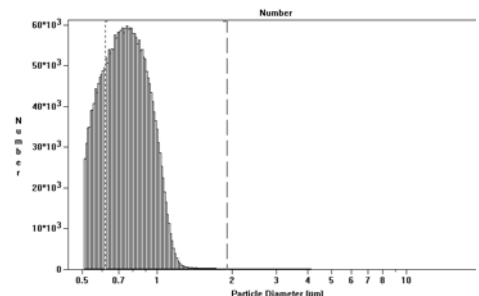


M-PVA Ak2x *for research only*

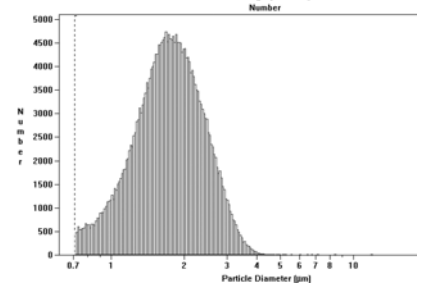
NCO-activated M-PVA Magnetic Beads

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

M-PVA Ak21: 0.5 – 1.0 μm



M-PVA Ak22: 1.0 – 3.0 μm



Standard Package Size²: 2 ml bead suspension

Concentration: 25 mg/ml

Standard Magnetite Content: 50 - 60 %

Storage: at 4 °C in absolute dimethylformamide (DMF).

Stability: at least 1 month at 4 °C.

Activation degree: **M-PVA Ak21:** 250 μmol NCO/g

M-PVA Ak22: 220 μmol NCO/g

Properties: The superparamagnetic beads consist of a matrix of carboxylated polyvinylalcohol, which is subsequently modified by introduction of isocyanate functionalities using an eight atomic spacer. M-PVA Ak2x is suitable for direct coupling of molecules containing amino- or hydroxy functionalities. The beads have a polydispers size distribution.

¹ other beads sizes on request

² other package sizes or bulk ware on request



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Further Questions?

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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 remove the supernatant (DMF, toxic).
3. If necessary remove remaining DMF by washing the beads twice with double volume of an inert and water-free organic solvent like acetone or dioxane. Otherwise the separated beads can be used directly for coupling.
4. Resuspend the beads in a solution of the ligand to be coupled in calculated amount . Dependent on the solubility of the ligand a water-free organic solvent (e.g. dimethylformamide, dioxane or dimethylsulfoxide) or a hydrous buffer solution (pH 7 - 9, e.g. phosphate buffer) can be used as solvent.
5. Shake vigorously and rotate at least one hour at room temperature.
6. Wash at least three times with double volume of an appropriate storage buffer and resuspend for storage.

! *Do not use hydrous solutions before the coupling step and do not dry bead suspensions to avoid decreasing binding capacity.*

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