



Amino-Activated MagPoly Beads

Index

1. Product Description.....	1
2. Coupling Procedure.....	1
3. Related Products.....	1

1. Product Description

Amino-Activated MagPoly Beads are superparamagnetic magnetic particles with amino functional groups on the surface. The preactivation media can be prepared into special affinity media according to the needs, and the corresponding substances can be quickly and effectively purified in one step from the complex system.

Table 1. Characteristics of **Amino-Activated Magpoly Beads**

Item	Description
Matrix	Polymer magnetic beads
Particle Size (μm)	1
Storage Buffer	100% isopropanol
Concentration of magnetic beads	10mg/ml
Storage Temperature	-20°C

2. Coupling Procedure

2.1 Buffer Preparation

Water and chemicals used for buffer preparation should be of high purity. It is recommended filtering the buffers by passing them through a 0.22 μm or 0.45 μm filter before use.

Cleaning Buffer: 1mM HCl

Coupling Buffer: 0.1M MES, pH 4.5

Wash Buffer 1: 0.1M NaAc, 0.5M NaCl, pH3.0

Wash Buffer 2: 0.1M Tris-HCl, 0.5M NaCl, pH8.0

Storage Buffer: 20mM sodium phosphate, 20% ethanol, pH8.0

2.2 Sample Preparation

It is recommended filtering the sample solution by passing them through a 0.22μm or 0.45 μm filter before use.

The sample should be dissolved in **Coupling Buffer** with a concentration of about 5-10mg/ ml.

If the sample is insoluble, add 50% dioxane or ethylene glycol and adjust pH to 4.5-6.0 using a pH test paper.

2.3 Ligand coupling

- 1) Prepare appropriate amount of **Amino-Activated MagPoly Beads** then remove Storage Buffer. Clean three times with the cleaning buffer and once with the coupling buffer.
- 2) Transfer the dissolved sample into the cleaned **Amino-Activated MagPoly Beads**.
- 3) Directly add the measured EDC solid powder, or add the high concentration of EDC solution drop by drop to make the final concentration 0.1M. If it is mother solution, pH should be adjusted in advance.
- 4) Apply the sample onto the column, shaking 2-24 hours at 4-25°C.
- 5) Take out the above reaction system, and removal the Blocking Buffer. Clean the magnetic beads with 3 times of DEionized water, and rinse the meidum with the wash buffer 1, deionized water, wash buffer 2 and DEionized water repeatedly for 2 times, and then store in an equal volume of Storage Buffer at 2°C-8°C.

3. Related Products

Product	Cat. No.	Size
Amino-Activated MagPoly Beads	SM028001	1ml
	SM028005	5ml

