

Crosslinked Polystyrene Particles

Description

Beijing Biotyscience Co. Ltd offers a wide range of crosslinked polystyrene particles. Uniform shape, and porous crosslinked polystyrene particles are manufactured at Biotyscience.

Biotyscience also provides uniform cross-linked polystyrene particles that are stable in the presence of organic solvents. Porous crosslinked beads will provide additional surface area. Furthermore, larger size uniform and different Surface group cross-linked polystyrene particles are also available. PS microsphere products have ideal microspherical appearance, no other impurities, small differences between batches, and good repeatability.

Through further surface modification, PS microspheres can be coupled with fluorescent molecules, streptavidin, proteins, nucleic acid probe molecules, etc, and can be used for latex-enhanced immunoturbidimetric determination, liquid-phase chips, cell labeling, protein separation, Drug carrier, separation column packing, cell separation, cell culture, etc.

Particles with hydroxyl,sulfate and dimethylamino are used to manipulate the orientation of the coated material by passive adsorption. Carboxyl or Amino functionalized particles are very useful for covalent coupling of proteins,ligands, antibodies or antigens to the surface of the microparticles using water soluble carbodiimide as the coupling agent.

Product Information

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Type	Crosslinked Polystyrene Particles
Diameter	1 um - 100 um
Functional group	COOH/NH ₂ (or others)
Buffer	Supplied in DI Water.
Concentration	50 mg/ml (or others)
Size	10 ml, 100 ml
Storage	Stored at 2 - 8°C. Do not freeze.
Shelf life	24 months

Storage

Store product away from direct sunlight at 2-8° C.

Do NOT freeze.

When stored as specified the product is stable for at least six months.

Notes

Please use PS microspheres after fully stirring and ultrasonic dispersion.

Store at room temperature/4 degree and avoid light, avoid drying into blocks and avoid freezing and thawing.

The working temperature should not exceed 100° C to prevent the polystyrene microspheres from melting, deforming or sticking together.

Passive Adsorption

1. Add the following to a centrifuge tube:

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- a. phosphate buffer, 0.1 M, pH 7.4
- b. protein solution
- c. polystyrene particles
2. Vortex and incubate for at least one hour at ambient temperature.
3. Centrifuge .
4. Remove the supernatant carefully.
5. Add isotonic Buffered Saline (IBS).
6. Mix well using a vortex mixer.
7. Centrifuge.
8. Remove the supernatant carefully.
9. Add IBS and mix well to obtain suspension.

Coating of Amino Particles with Protein/Antibody Using EDC

Covalent Coupling (one step EDC coupling):

1. Add the following to a centrifuge tube:
 - a. Acidic buffers such as phosphate, 0.1M or MES, 0.05 M
 - b. Protein/Antibody
 - c. Amino particles
 - d. EDC
2. Vortex and incubate for two hours at ambient temperature on a rotary mixer or with occasional vortexing or shaking.
3. Centrifuge.
4. Remove the supernatant carefully.
5. Resuspend the pellet in Isotonic Buffered Saline.
6. Repeat Steps 3 and 4 and resuspend the pellet in IBS to obtain suspension.

Contact Us

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