Tinzyme Co., Limited

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Magnetic Bead (Streptavidin)

Storage and Stability

2-8℃, do not freeze, 2 years.

Description

This monodisperse magnetic microspheres product (SA) composed of polymer and magnetic particels has the advantages of fast magnetic response, good suspension, large specific surface area, good stability, good lot-to-lot consistency and so on. The product has sufficient streptavidin (SA) on the surface, which can combine with biotinylated bio-ligand through the specific affinity of streptavidin-biotin. With the help of magnetic separation, it can be used for targeted detection of specific bio-molecules in chemiluminenscent immunoassays.

Information

1. Composition: polymer/ Iron oxide
2. Functional group: streptavidin(SA)
3. Diameter: 600nm~5μm
4. Storage buffer: 10mM Tris(pH 7.4), 0.05%BSA, 0.05%Tween-20, 0.05%(w/v) ProClin 300, 0.05%BND-10

Protocol

1. Check the product number and batch number after taking the magnetic beads tube out of the refrigerator, and mix the beads up and down for several times until no obvious aggregates at the tube bottom. Place the tube in the blood blender or use other blenders to further mix the beads and balance to room temperature.

Note: If the magnetic beads volume is less than 10mL, it needs to be balanced for at least 30min, and if it is greater than 10mL, it needs to extend the time for balancing the room temperature as appropriate.

2. Calculate the required volume of magnetic beads. Taking 50mg magnetic beads as an example, 5mL of magnetic bead solution is required based on 1.0% (i.e. 10mg/mL) of the original solution.
3. Take 5mL of magnetic beads and add it to a 10mL centrifuge tube or suitable container. Place the 10mL centrifuge tube on a matching magnet separator and let it stand for 1 minute until the supernatant becomes clear.
4. Discard the supernatant and add 5mL (the same volume as the original solution) of storage buffer. Vortex for 20 seconds to mix well,observe to ensure mixing. If not mixed well, continue vortex until well mixed; Repeat this step 3 times to complete the washing or storage buffer replacement.

Note: 1)If the magnetic field of the magnet separator is weak, the separation time can be increased until the solution becomes clear. 2)If the volume of the magnetic beads is larger, the separation time needs to be increased until the supernatant becomes clear.

5. Dilute the cleaned magnetic beads with storage buffer to the desired concentration according to the reagent performance (recommended concentration 0.5~1.0mg/mL).
6. Mix the diluted magnetic beads again, and load it with other reagents into an automatic chemiluminescence instrument. Set project parameters and perform the sample test.

Note

1. In order to reduce the loss of magnetic beads, the time of each magnetic separation should be no less than 1 minute.
2. Before removing the beads from the tube, the magnetic beads should be fully mixed and resuspended evenly, and bubbles should be avoided during operation.
3. It is recommended to use a good quality pipette tip and reaction tube to avoid losses caused by adhesion.
4. This product is for research use only.

5. All information above is provided for guidance and reference purposes only.

Product list

Product Number	Surface groups	Particle size	Solid content	Specifications
MB06SA	SA	600nm	1.0%	1mL,10mL,100mL,1000mL
MB06SB	SA	600nm	1.0%	1mL,10mL,100mL,1000mL
MB11SA	SA	1μm	1.0%	1mL,10mL,100mL,1000mL
MB11SB	SA	1μm	1.0%	1mL,10mL,100mL,1000mL
MB21SA	SA	1.5μm	1.0%	1mL,10mL,100mL,1000mL
MB13SA	SA	3μm	1.0%	1mL,10mL,100mL,1000mL
MB13SC	SA	3μm	1.0%	1mL,10mL,100mL,1000mL
MB15SA	SA	5μm	1.0%	1mL,10mL,100mL,1000mL