



Chemiluminescent Magnetic Particles-SA PRODUCT DATA SHEET

Chemiluminescent Magnetic Particles-SA

Description

This series of chemiluminescence magnetic microspheres have the advantages of super paramagnetism, moderate magnetic content, excellent resuspendability, fast magnetic response time, large specific surface area, good stability and good lot-to-lot consistency. Good microsphere surface treatment technology provides customers with a variety of functional groups as options for the development of different technical routes. Sufficient functional groups ensure that the finished products can bind enough specific proteins or biomolecules. 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 chemiluminescent immunoassays. In addition, we can provide customers with complete technical support and overall application solutions for subsequent applications.

For custom sizes, formulations or bulk quantities please contact our customer service department.

Website: www.abvigen.com **Phone:** +1 929-202-3014 **Email:** info@abvigenus.com

Characteristics

Composition: Fe_3O_4

Concentration: 10 mg/ml

Particle Size: 600 nm~5 μm

Surface: SA

Additive: Trace amount of surfactant

Uniformity: CV < 5%

Density: 1.05-3.38 g/cm³

Storage buffer: 10 mM Tris (pH 7.4), 0.1% BSA, 0.05% Tween 20, 0.1% (w/v) ProClin 300

Storage condition: Store at 2 - 8°C, do not freeze

Quality guarantee period: 24 months

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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 10 mL, it needs to be balanced for at least 30 min, and if it is greater than 10 mL, it needs to extend the time for balancing the room temperature as appropriate.

2. Take an appropriate amount of magnetic beads after mixing as required. It is recommended to use the same volume of subsequent test buffer to clean the beads for three times to prevent the test deviation of parallel wells due to buffer conflict in the subsequent test process.

3. Dilute the cleaned magnetic beads with reaction buffer to the desired concentration according to the reagent performance (recommended concentration 0.5~1.0 mg/mL).

4. Mix the diluted magnetic beads again, and perform the sample test with other reagents.

5. For manual test or semi-automatic test, please contact the service technicians for consultation.

Advantages

High magnetic content: fast magnetic response

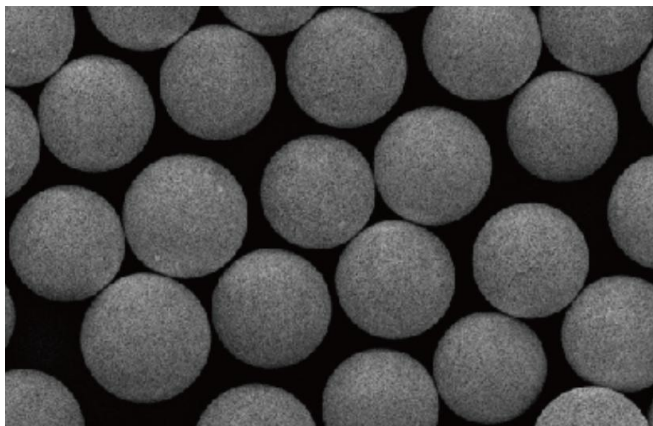
Large scale production capacity, up to 50L/batch: scalable and stable production

Uniform diameter, stable and controllable surface functional groups: high reproducibility

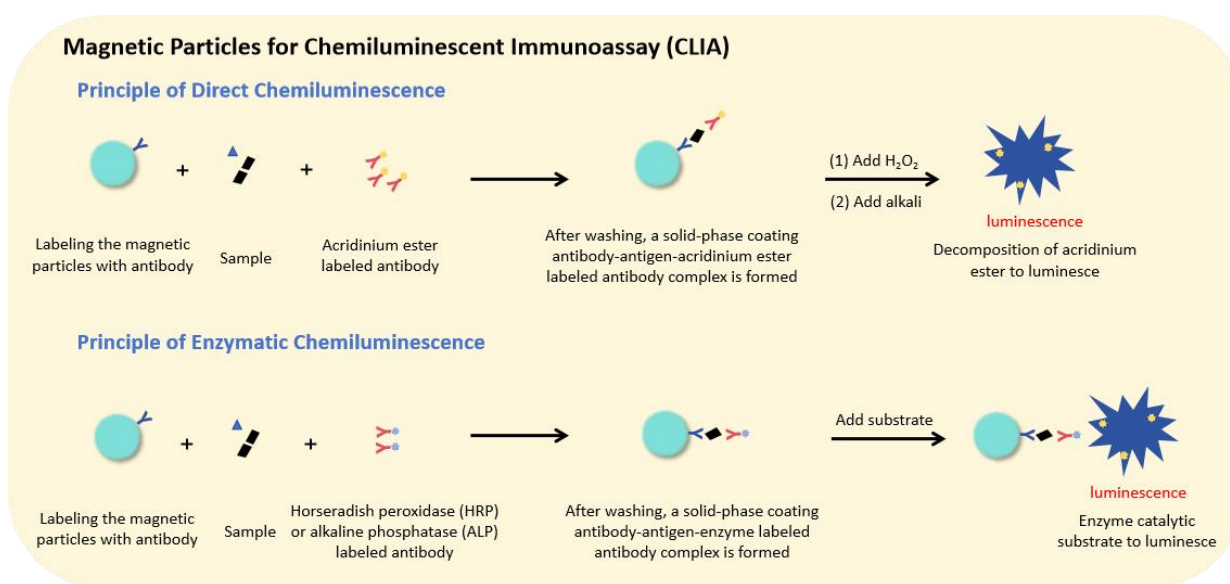
Superparamagnetism and proper density: ensures good resuspension and suspension time

Sufficient surface functional groups: efficiently couple with sufficient amount of target protein

Electron microscope image of Chemiluminescent Magnetic Particles-SA



Principle of chemiluminescence



Storage and Stability

This product should be stored at 2 - 8°C. **DO NOT FREEZE.** 2 years.

Limited Product Warranty

1. In order to reduce the loss of magnetic beads, the time of each magnetic separation should be no less than 1 min.
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.

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4. This product is for research use only.

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

Ordering Information

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