Tinzyme Co., Limited

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RNA Clean Beads

Product Number: MB243

Shipping and Storage

4℃.

Components

Component	MB243
RNA Clean Beads	5ml

Description

This magnetic bead is suitable for rapid sorting and recovery of RNA fragments. Magnetic beads undergo magnetic separation and ethanol cleaning, and high-purity RNA fragments washed with low salt elution buffer or nuclease free water do not contain pollutants such as nucleotides, primers, enzymes, and salts. They can be directly used for downstream applications, such as sequencing, hybridization, RT-PCR reactions, and can be used in manual or automatic liquid operation equipment.

Features

1. The recovery rate can reach over 80%;
2. The operation is fast and simple, and the entire process can be completed in 20 minutes without the need for centrifugation.

Suggestions

1. Low or no RNA recovery efficiency?
   - 1.1. RNA undergoes degradation. The operation process must be strictly ensured to be free of RNase contamination.
   - 1.2. The sample quality is low.
   - 1.3. Low elution efficiency. 80% ethanol needs to be used and prepared on site. If left for too long, the concentration may decrease due to the evaporation of ethanol, which may affect the elution effect;
   - 1.4. The incubation time of the elution solution is too short. The magnetic beads should be incubated in the eluent for the specified time, with a routine time of 5 minutes;
   - 1.5. The magnetic beads are excessively dry. Do not dry the magnetic beads at room temperature for more than 10 minutes, excessive drying will reduce the elution efficiency.
2. Is there magnetic bead residue in purified RNA?
   - 2.1. The separation time of magnetic beads is too short or the magnetic force of the magnetometer is weak. Increase the separation time or use a magnetic force with strong magnetic force to ensure that the magnetic beads are fully adsorbed by the magnetic force;
   - 2.2. During the elution step, the speed of absorbing the supernatant is too fast. Slowly absorb the supernatant, being careful not to absorb the magnetic beads.
3. How to detect the purity of recycled RNA?
   - 3.1. It can be evaluated by measuring the ratio of A260/A280.

Protocol

1. Mix RNA and RNase Free Water at a ratio of 1:1.5, then mix the diluted RNA sample with 1.8 times the volume of magnetic beads and let it stand at room temperature for 5 minutes;
2. Separate using a magnetic separator, let it stand at room temperature for 5 minutes, and remove the supernatant;
3. Rinse once with 80% ethanol (during this process, keep the sample tube on the magnetometer);
4. Rinse again with 80% ethanol (during this process, keep the sample tube on the magnetometer);

5. Remove the supernatant and let it stand at room temperature for 5 minutes. Wash with an appropriate amount of RNase Free Water and let it stand at room temperature for 5 minutes;
6. Separate the magnetic separator, let it stand at room temperature for 5 minutes, and transfer the supernatant to -20℃ for storage.