MagBeads PCR Purification Kit

Introduction

MagBeads PCR purification kit uses optimized superparamagnetic beads and buffer system, which can easily recover DNA from PCR reaction products and other enzymatic reactions, and can effectively remove impurities such as proteins, dNTPs, primers and salts. The experimental process is simple and fast, and can be completed in 20 minutes.

This product has the characteristics of wide application range, high recovery efficiency and high DNA purity, and the recovered high-quality DNA can be used for various downstream molecular biology experiments.

Components and Storage

Components \ Size	K1625-20tests	K1625-100tests	Storage
Buffer MagBeads	2 mL	10 mL	4℃
Buffer EB	2 mL	10 mL	4℃
Shipping: Blue ice	**Shelf life:** 12 months		

***Notes:** Reaction times are calculated based on 50 μL PCR products. The required volume of Buffer MagBeads for one time = 1.8 x (PCR product volume).

Protocol

Preparation: 80% ethanol，magnetic separator

1. In the PCR products, add 1.8 volumes of Buffer MagBeads, and mix 3-5 times with pipette tips.

PCR reaction volume (μL)	Beads volume (μL)
10	18
20	36
50	90

2. Room temperature for 5min, and mix 2-3 times with pipette tip.
3. Place the reaction tube on magnetic separator and let stand for 30s. Until all magbeads are adsorbed to the tube wall, remove the supernatant.

***Note:** After removing the supernatant, do not remove the reaction tube from magnetic separator.

4. Keep reaction tube on magnetic separator, add 200 μL 80% ethanol, leave at room temperature for 30s, and then discard the supernatant. Once again.

***Note:** a) Do not disturb the separated magbeads;

b) Do not touch the magbeads;

c) Be sure to remove all of the ethanol from the bottom of the tube.

5. Magbeads are dried at room temperature for 3-5min.

***Note:** a) Please keep the tube on magnetic separator;

b) Do not make the magbeads too dry, otherwise it will affect DNA yield.

6. Remove the magnetic separator, add 30-50 μL Buffer EB, and gently pipette magbeads on the tube wall with the pipette tip until magbeads are fully suspended. Room temperature for 5min.

***Note:** a) The elution efficiency can be effectively improved by preheating the eluent at 65℃-70℃;

b) Gently blow 3-5 times to mix magbeads with the eluent evenly.

7. Place reaction tube on magnetic separator, until magbeads are completely adsorbed to the tube wall, and aspirate the supernatant into a new centrifuge tube to obtain high-purity DNA.

Note

1. Buffer MagBeads should avoid freezing, centrifugation, etc. during storage.
2. Recommend to use good quality pipette tips and reaction tubes to avoid loss due to adhesion of magbeads and solution.
3. Before removing the magbeads from the magbeads storage tube, it should be fully oscillated and resuspended evenly.
4. The washing buffer should be completely removed before eluting the magbeads to avoid residual ethanol affecting the efficiency of DNA elution.
5. Do not dry the magnetic beads for a long time to avoid irreversible magbeads aggregation.
6. For research use only. Not to be used in clinical diagnostic or clinical trials.

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