DESCRIPTION

Cell DNA Magnetic Extraction employs magnetic particle-based purification technology to isolate and purify genomic DNA from cultured cells and bacterial. It is a simple and fast procedure with a bind-wash-elute process, does not need centrifugation or vacuum manifolds to remove the aqueous phase. The approach can allow selective binding of DNA in the presence of high concentrations of salt, DNA bound to a magnetic bead can be easily separated from the aqueous phase using a magnet. This method is ideal for automation of high throughput processing, as they eliminate the need for centrifugation and other time-consuming steps.

KEY FEATURES

- ❖ High efficiency: High yield rate.
- ❖ High purification
- ❖ Simple and fast: Just binding-washing-elute.
- ❖ No organic solvent.

APPLICATIONS

Used for genomic DNA extraction from cultured cells and bacterial.

KIT CONTENTS

Name	Volume	Store
Lysis buffer	20 mL	4˚C
Binding Buffer	20 mL	4˚C
Wash Buffer*	20 mL	4˚C
Elute Buffer	10 mL	4˚C
Magnetic Bead	1.5mL	4˚C

Sufficient reagent for 100 samples

*: Add 80 mL absolute Ethanol to Wash Buffer.

STORAGE CONDITIONS

The kit is shipped on RT and stored at 4°C for long-term storage. Shelf life of 12 months after receipt.

PROCEDURES

1. Harvest cultured cell, 50 µL ~ 1mL into a labeled 1.5mL.
2. Centrifuge the sample tube for 5 min at 10,000 rpm, and carefully discard supernatant, keep the cell pellet in the tube.
3. Resuspend the cell pellet completely in 200 µL of Lysis buffer. Vortex vigorously to mix completely. Incubate at RT for 10min or longer. After incubation, cool the lysate to room temperature.
4. Add 200 µl of binding solution and 15 µL of mixed magnetic beads (*Note: resuspend the beads completely before use).*
5. Incubate it at room temperature for 10 min to 30min. Put the tube on the magnetic seperator, and remove the supernatant as possible (Note: do not disturb or aspirate the beads).
6. Washing 2 times: Add 400 µL of the washing buffer, and mix completely. (Note: Add the 80 mL absolute ethanol to the buffer before first time use), Put the tube on the magnetic seperator , and remove the supernatant. Repeat wash again.
7. Add 50uL-100uL Elute Buffer and gently resuspend the beads and place them in a 70 °C bath for 10 minutes(Note:. If need a high concentration of DNA, to add less Elute Buffer).
8. Carefully transfer the supernatant containing the genomic DNA to a clean centrifuge tube and store at -20 °C.

RELATED PRODUCTS

TBS42025: 4-in-One *Aspergillus* qPCR for *Flavus*, *Fumigatus*, *Niger* and *Terreus*
TBS42026: O157 H7 *E. Coli* qPCR
TBS42029: STEC and Samonella Multiple qPCR
TBS42030: Mycoplasma Detection qPCR

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