Fast Genomic DNA Extraction Kit

Only 10 minutes for DNA Extraction from tissues and cells without other preparation

Catalog Number	Kit Size	Sample
TBS6008-10	10mL	100
TBS6008-50	50mL	500

DESCRIPTION

Fast DNA extraction kit provides a simple and rapid method to isolate the genomic DNA from tissues or cells for PCR amplification, genotype identification, CRISPR mutation detection, and library screening. The formulated reagent is ready to use in a single reagent without other preparation. No organic extraction and alcohol precipitation are needed, and multiple samples can be easily processed simultaneously.

FEATURES

- Accurate and consistent DNA extraction from tissues and cells (See Fig.1).
- Fast: Only 10 minutes for the whole process.
- Simple: No need for additional materials.
- Safe: No use of organic solvents.
- Easy: Ready for use in PCR and other enzymatic reactions.

COMPONENT LIST

Extraction Reagent: 10 mL for 100 samples.
50 mL for 500 samples**.**

Storage: Store at -20°C.
Shelf-life: 1 year after receipt.
Shipment: Blue ice.

PROCEDURE

1. Process different samples as below:
   1.1 Adhesive Cell Cultures (1×10^6): Wash the adhesive cell culture in the well once with PBS without touching the cells, and then add Extraction Solution to the well, suspend the cell culture by pipetting up and down for several times and transfer the cell suspension to a new 1.5 mL tube for the next incubation procedures.
   1.2 Suspension Cell Cultures: Cells ($\leq1\times10^6$) are directly collected into a 1.5 mL vial. Centrifuge the cells at 2000 rpm for 3 minutes and discard the supernatant. Wash cells with 1 mL of PBS once by centrifugation at 2000 rpm for 3 minutes. Discard the supernatant. Add 100 µL of Extraction Solution to each sample tube and resuspend the cell pellet by pipetting or vortexing.
   1.3 Tissues: Cut a small piece of tissue sample, for example 2-3mm section of a mouse tail snip, and put it to a 0.5ml tube. Add 100 µL of Extraction Solution to each sample tube. Spin the tube briefly to make sure the tissue sample in the solution.
2. Incubate tubes at 68°C for 7 min.
3. Keep the tubes in boiling water or heat plate at 95°C for 3 min.
4. Quick spin to make the solution in the bottom of the tube.
5. Add 300 µL dH2O or TE buffer (1x) to each tube, vortex for 5s.
6. Spin at 10,000 rpm for 5 min. Transfer the supernatant DNA extracts to new tubes and discard the pellets.
7. Use 1-5 µL of the DNA sample for PCR or store at -20°C for later use.

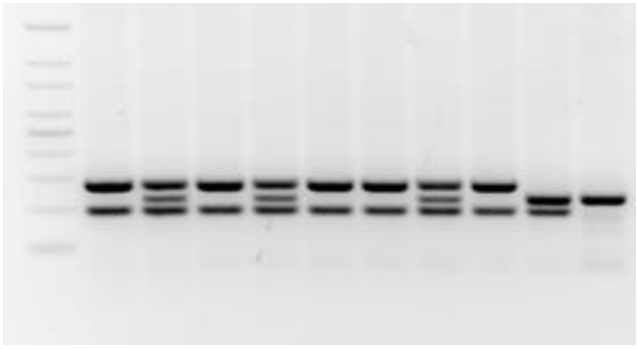

Fig.1 Genotype identification by PCR amplification of mouse genomic DNA

RELATED PRODUCTS

Blood DNA Extraction Kit (TBS6004)
Fast Mouse tail DNA Extraction (TBS6005)
Cell DNA Extraction Kit (TBS6007)
Tissue DNA Extraction Maxi (TBS6006)
Sybr Green qPCR Super Mix kit (TBS4001)
2xTaqman qPCR Mix (TBS4002)
2x Genotyping Ready PCR Mix (TBS4003)
Fast Mouse Genotyping System (TBS4033)

This product is for *in vitro* research use only and is not intended for use in humans or animals in therapeutic or diagnostic procedures.

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