Tribioscience Tissue DNA Extraction

For research use only

Tissue DNA extraction Kit (Catalog# TBS6006)

DESCRIPTION

Tissue DNA extraction kit provides a simple and rapid method for the isolation of total DNA from animal tissues and cultured cells. This kit can process 25 mg of wet tissue and yields up to 50 µg depending on the type of sample used. Specially formulated buffer system minimize RNA copurified with DNA without RNase A treatment. If RNA-free genomic DNA is required, RNase A can be treated with. No organic extraction and alcohol precipitation are needed for sample of mouse tail genotyping, and multiple samples can be easily processed.

Features and Benefits

■ Accurate and consistent DNA extraction from animal tissues, cultured cell line.
■ Instant use: No need of additional materials.
■ Simple and safe procedure.
■ No use of organic solvents.
■ Ready for use in PCR, Southern blotting, and other enzymatic reactions.

Component list

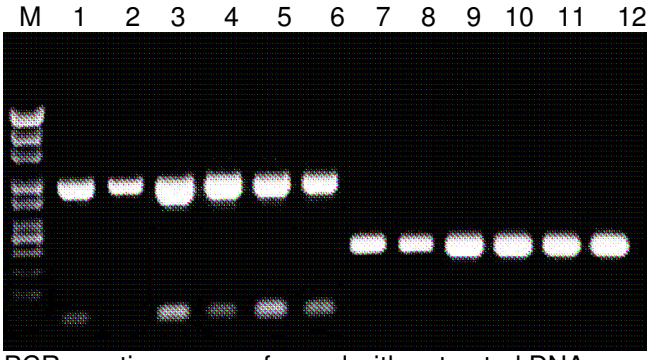
Extraction Buffer	**25 mL**
Proteinase K	**1 mL 20 mg/mL**
Ammonium Acetate	**25 mL 8M**
TE Buffer	**50 mL**

Storage: Supplied for 1000 samples. Store kit at 4°C (except Proteinase K, store at -20°C).

Procedure

- Perform entire procedure in 1.5ml microfuge tubes, using a bit of tissue.
- If you don't plan to extract tissues quickly (with 1-2 hours), transfer them to -80 or -20℃ freezer for long-term storage.
- Prepare enough digestion solution by mix 1 part Proteinase K with 20 parts extraction buffer (1:20), 20 µL digestion solution is need for each 3 mm tissue.

1) Add 20 µL digestion solution to each tube. If needs, crush tissue in solution with clean, sterile, blue pestle until well dispersed.
2) Close tube. Invert to mix. Set aside until all samples are brought to step 4.
3) Incubate tubes at 55℃-60℃ for 15-30min.
4) Add 80 µL ddH_2O to each tube, vortex 5', quick spin. Transfer supernatant into new tubes **(For mouse tail sample genotyping, no further step are needed).**
5) Add 40 µL NH_4OAc, 200 µL isopropanol or Ethanol.
6) Vortex the tubes for 1 min.
7) Spin 14,000 rpm for 5 min.
8) Decant the supernatant and wash the pellet with 70% ethanol 3 times.
9) Air-dry DNA 10-30 min, then add 50 µL TE buffer or ddH_2O to dissolve the pellet.
10) Take 5 µL to do PCR or store at -20℃ for later use.



PCR reaction was performed with extracted DNA using Tissue DNA extraction kit. Template was isolated from mouse tail (Lane 1 ~ 2, 7 ~ 8), spleen (Lane 3 ~ 4, 9 ~ 10) and kidney (Lane 5 ~ 6, 11 ~ 12). M: 1 kb ladder marker.

RELATED PRODUCTS:

Blood DNA Extraction Kit (catalog# TBS6004)

Cell DNA Extraction Kit (catalog# TBS6007)

qPCR Superkit (catalog# TBS4001)

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