

Minute™ PCR Template Prep Kit

Catalog Number: PN-020

Description

Invent Biotechnologies PCR template Prep Kkit is designed to extract genomic DNA from animal tissues (such as mouse tail), cultured cells and blood (fresh or anti-coagulated with EDTA, citrate, or heparin) for polymerase chain reaction (PCR).

Features

Solution based single tube protocol. Extract Genomic DNA from mouse tail, cultured cells and blood in 5 min
No toxic chemicals. Consistent results.

Kit Components

Solution A	30 ml
Solution B	20 ml
Solution C	2.0 ml

Storage: Store the kit at RT.

Procedures

Step 1

- A. **Mouse tails:** Place 2-3 mm mouse tail in a 0.5 ml microcentrifuge tube containing 300ul solution A. Proceed to step 2.
- B. **Cultured cells:** Add 1×10^4 - 1×10^5 cell suspension in <10 ul to a 0.5 ml microcentrifuge tube containing 300ul solution A **or** add 200 solution A to a cell pellet that contains 1×10^4 - 1×10^5 cells. Proceed to step 2.
- C. **Blood** (fresh or anti-coagulated): Add 5-10ul blood into a 0.5 ml microcentrifuge tube containing 300ul solution A

Step 2 Vortex the tube (s) briefly and incubate at room temperature for 2 min. Centrifuge at 10,000 rpm for 1 min, remove supernatant without disturbing the tails or cell pellets. Add 60 ul solution B to the tube (s).

Step 3 Place the tube (s) in a thermocycler and heat at 95°C for 2 min. Cool the tube to room temperature. Add 6ul solution C and vortex briefly. Extracted genomic DNA is now ready for use as PCR template or for longer term storage at -20°C.

Recommended PCR conditions

*PCR reaction mix:

2 X PCR master mix	25ul
Primers (forward/reverse)	1-2ul (0.5-1.0uM each)
DNA template	5-10ul
H2O	to 50ul

PCR amplification:

- A. Denaturing: 95°C 3 min (1 cycle)
- B. Denaturing: 95°C 30"
- C. Annealing: 55-64°C 1 min
- D. Extension: 68-72°C 45"

Repeat B-D for 30-35 cycles

* If desired final reaction volume can be reduced to 25ul

