DirEx™ *Fast*-Cultured cell

Single-tube PCR-template DNA preparation system

Cat. No. 260-021

for research use only

Kit Contents

(96 prep/kit)

Components	Quantity
▪ DirEx™ *Fast*-Cultured cell	96 tubes (0.2 ul 8-tube strip x 12 ea)

Description

GeneAll® DirEx™ *Fast*-Cultured cell provides easy and simple preparation of PCR template DNA without laborious extraction process. It has a pre-mixed format which contains all reaction reagents in 8-strip tube and ready to use. The whole procedure can be completed in a single tube and it takes just 8 minutes. The procedure of DirEx™ *Fast* is composed of two steps, incubation and inactivation, which are the lysis of sample and the heat-inactivation of proteases respectively.

DirEx™ *Fast* is basically designed to use PCR thermal cycler for whole procedure, although the conventional bath can be employed. After adding a target sample into the DirEx™ *Fast*, all you have to do is just to start the thermal program.This simple procedure requires neither the centrifugation step nor the additional handling, and it facilitates the high throughput preparation of PCR template DNA. The simultaneous preparation from many samples with minimum handling will help guarantee the fidelity of the analysis.

Storage conditions

DirEx™ *Fast*-Cultured cell should be stored at -20°C and is stable for 1 year under this condition.

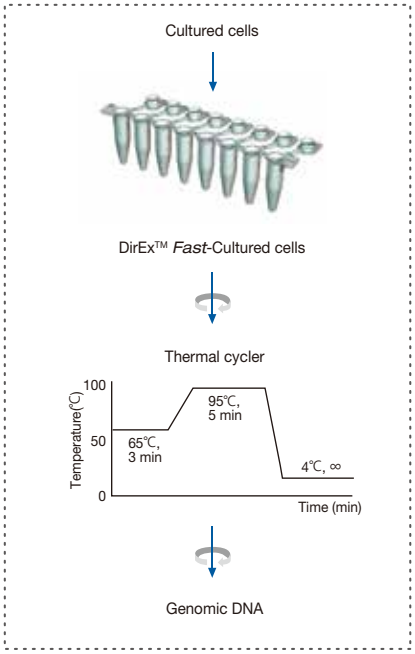
Quality Control

GeneAll® DirEx™ series is manufactured in strictly clean condition. PCR amplification assay as a quality control is carried out from lot to lot thoroughly and only the qualified lot is approved to be delivered.

Precaution of DNA cross-contamination

DNA cross-contamination can occur by handling of several cultured cell samples simultaneously. Therefore, always wear gloves and mask, and use sterile plastic wares to place cultured cells in DirEx™ *Fast* system.

Brief procedure



Protocol

1. Place cultured cells in DirEx™ *Fast*-Cultured cell tube and vortex to mix for 10 seconds.

▪ **Recommended sample volume.**
- Mammalian cells : 10 ul of cell suspension containing up to 5x10^6 cells
- Bacterial cells : 15 ul of cell suspension (OD_{600nm}=1.5) or one single colony picked from a solid media

If the sample is attached on lid or wall surface of the tube after vortex, spin down briefly to collect the samples to bottom of the tube.

2. Incubate the sample using a PCR thermal cycler programmed as below : [65℃, 3 minutes → 95℃, 5 minutes → 4℃, ∞]

3. After incubation, vortex to mix for 5 seconds and spin down briefly to remove any drops from inside of the lid.

4. Use the supernatant immediately as template DNA for analysis. For long-term storage, transfer the supernatant to a new tube and store in a freezer.

For best results in PCR, it is recommended to use 1~2 ul of the prepared DNA solution for 20 ul PCR reaction.