

## PrimePrep Direct PCR Reagent

Product Name	Cat. No.	Size
PrimePrep Direct PCR Reagent	K-9000	30 mL

### Description

PrimePrep Direct PCR Reagent is a product that can be more quickly and effectively extracted the DNA template from a variable samples for the PCR reaction.

You can use the PrimePrep Direct PCR Reagent quick and easy to get the required DNA template for the PCR reaction in less than 10 minutes from the blood and tissues.

### Protocol

1. PrimePrep Direct PCR reagent reacts on samples to extract DNA. The addition of Reagent 200  $\mu$ l to perform an effective response in a 10 seconds vortexing.

- **Liquid sample such as blood:**

1 ~ 10  $\mu$ l + PrimePrep Direct PCR Reagent 200  $\mu$ l

- **Solid sample such as tissue\*:**

1 ~ 10 mg + PrimePrep Direct PCR Reagent 200  $\mu$ l

\* meat tissue, plant leaf, seed, cell, mouse tail, follicle etc.

2. PrimePrep Direct PCR Reagent samples containing at 95°C 10 minutes to perform the reaction.

3. After completion of the reaction, vortex the reactant for 10 sec and centrifuge the reactant for 30 sec ~ 1 min, and use the supernatant.

4. PCR reaction

- Addition to using, the extract DNA does not exceed 10% of the PCR reaction volume.

[For example, if the PCR reaction volume work 20  $\mu$ l, the extract

Use the 1 ~ 2  $\mu$ l perform the PCR.]

- By using an excess DNA extract proceed may not be amplified the PCR reaction.

- If PCR is not amplified and the supernatant 1/10, 1/100 times diluted with D.W used as a template.

### ► Technical Tips

- 1) In most cases, the DNA extraction in 10-minute reaction at room temperature. If you perform a reaction at 95 °C may be DNA extracted to increase the yield.
- 2) To obtain more DNA extraction yield when the reaction proceeds can be increased.
- 3) In case of tissue, DNA template required for the PCR reaction can be used without any problem from the extracted DNA.
- 4) The PCR reaction was tested in hot-start Taq DNA Polymerase; it is also quite perfect to obtain a accuracy result. When using the other reagent you may not have DNA amplification.

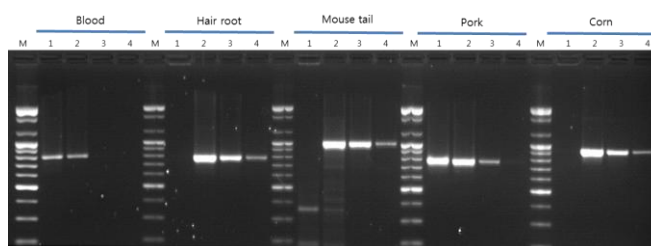
Commonly using reagents:

[G-7000: HS Prime Taq DNA Polymerase,

G-7100, G-7200: HS Prime Taq Premix]

### ► Experimental Figure

- 1) Blood (5  $\mu$ l), follicle (5 hair roots), Mouse tail (3mg), Pork (5mg), Corn (5mg) at 95°C for 10 min reaction.
- 2) HS Prime Taq Premix(G-7100) with PCR test
- 3) Extracted DNA was used 2  $\mu$ l (total PCR reaction volume: 20  $\mu$ l)
- 4) Primer sets and PCR products size
  - Human Blood & hair: CSTB gene, 790bp
  - Mouse tail: Hoxd-3 gene, 1,000bp
  - Pig: CPNE1 gene, 775bp
  - Corn: atpB/rbcl gene, 970bp



Lane M: 100bp DNA Marker (M-1000)

Lane 1: PCR performed using crude extracts 2  $\mu$ l

Lane 2: After DNA extract, diluted 1/10 for PCR performed using 2  $\mu$ l

Lane 3: After DNA extract, diluted 1/100 for PCR performed using 2  $\mu$ l

Lane 4: After DNA extract, diluted 1/1000 for PCR performed using 2  $\mu$ l

● **Research Use Only**

● **Store at Room Temperature**