V02

Blood Direct PCR Kit (To Remove Red Blood Cells)

Cat No.: PC1190 Package: 50T/ 100T

Storage: -20°C Store, valid for 1 year.

Kit content:

Component	50T	100T	Storage
Solution A	25mL	50mL	-20°C
Solution B	3mL	6mL	-20°C
Solution C	200μL	400μL	-20°C
dNTPs	100μL	200μL	-20°C
10X PCR Buffer	500μL	1000μL	-20°C
DNA Polymerase	60μL	120μL	-20°C
Instruction	1份	1份	5

Product Description:

By direct PCR kit, the lysis products treated with reagent A and reagent B can be used as PCR template without the extraction of genomic DNA from blood.

Product features:

- 1. The required sample size is minimal
- 2. No high quality template can perform PCR reaction, saving time and cost, wide applicability and other advantages.

Operation steps (for reference only):

- 1. Mix 50μL of whole blood in a 1.5ml centrifuge tube with 150μL of reagent A, gently vortexed or reversed, and stand at room temperature for 10min.
- 2. 13000rpm, centrifuged for 1min, the pipette carefully absorbed and supernatant discarded.
- 3. 150μ L of reagent A was added to the precipitate, gently blown up, centrifuged at 13000rpm for 1min, the pipette was carefully absorbed and the supernatant was discarded.
- 4. Repeat step 3.
- 5. 49 uL reagent B and 1μ L reagent C were added to the precipitate and mixed repeatedly with a pipette suction head.
- 6. The above liquid was heated at 55°C for 15min and at 95°C for 5min. At 12000rpm, was centrifuged for 1min, and the supernatant was the DNA template for the PCR reaction system.















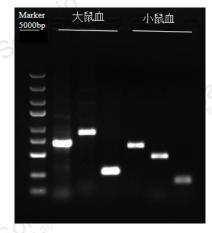
PCR reaction system:

Reaction components	25μL	
Templet	2μL	
10X PCR Buffer	2.5μL	
dNTPs	0.5μL	
Forward Primer (10µM)	1μL ®	
Reverse Primer (10µM)	1μL	
DNA Polymerase	1μL	
Water	Make-up to 25μL	

PCR reaction condition:

Cycle Steps	Temperature	Time	Cycle
Pre-denaturation	94°C	5min	1
Denaturation	94°C	15s	
Annealing	56°C	30s	30
Extension	72°C	1min/kb	J. CE.
Final Extension	72°C	3min	1
Keep Warm	4°C	(g)	

Experimental Result:



Electrophoresis diagram after direct PCR of rat/ mouse blood (three primer pairs)

M: Marker

Note:

- 1. Take fresh blood to place overnight, the effect will be better than fresh.
- 2. Each prepared template is best to be used and made now.
- 3. Store the prepared reagent C in-20°C.
- 4. If the sample protein content is high, the use of reagent C can be increased appropriately, and it is recommended not to exceed 4ul / sample.
- 5. During the red blood cell removal process, try to lysis the red blood cell thoroughly, and if the template is finally colored red, it may affect the PCR effect.
- 6. If the sample is a blood sample with removed red blood cells (all white blood cells), step 5 and subsequent experimental operations can be performed directly.

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