Animal Tissue Direct PCR Kit

Cat No.: PC1191
Package: 50T/ 100T
Storage: -20℃ Store, valid for 1 year.

Kit content

Component	50T	100T	Storage
试剂 A	4mL	8mL	-20℃
试剂 B	100μL	200μL	-20℃
dNTPs	100μL	200μL	-20℃
10×PCR Buffer	500μL	1000μL	-20℃
DNA 聚合酶	60μL	120μL	-20℃
研磨棒	25 个	50 个	RT
说明书	1	1	RT

Product Description:

The animal tissue direct PCR kit allows PCR amplification of different animal tissues. This lysate allowed sufficient tissue lysis and its composition without affecting PCR amplification, enabling the cleavage product to be directly used as a template for the PCR reaction. Some samples are relatively prone to lysis, such as spleen and kidney, and these tissues have less PCR inhibitors, with complete release of nucleic acid after lysis. For some tissues that are not easy to lysis, such as heart, liver, lung, tail, etc., this lysate can also play a very good lysis effect. There are a large number of substances in animal tissues that inhibit the PCR reaction. The DNA polymerase in this kit has strong amplification properties, which can also achieve good amplification results for crude extraction samples containing a small amount of PCR inhibitors.

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. Sampling: weigh samples (fresh samples, -20℃ frozen samples are available) in 1.5mL EP tubes.
2. Sampling criteria: weighing of rat tissue, viscera (heart, liver, spleen, lung, kidney) and ear, 5mg, rat tail 2-3mm.
3. Grind sample: Add 59μL reagent A and 1μL reagent B to a 1.5mL EP tube with tissue, and thoroughly mash the animal tissue with a pestle.
4. Cleysis sample: 55℃ 20min, 95℃ 5min.
5. At 12000rpm, centrifuged for 1min, and the supernatant was the DNA template for the PCR reaction system.

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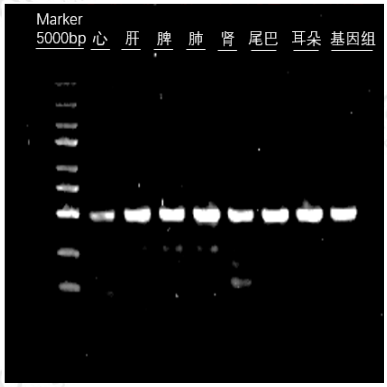
PCR reaction system:

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

PCR reaction condition:

Cycle Steps	Temperature	Time	Cycle
Pre-denaturation	94℃	5min	1
Denaturation	94℃	15s	30
Annealing	56℃	30s	
Extension	72℃	1min/kb	
Final Extension	72℃	3min	1
Keep Warm	4℃	-	

Experimental Result：



Electrophoresis diagram after direct PCR of mouse tissue (a pair of primer pairs)
M：Marker

Note:

1. Do not weigh excessive tissue, excessive leads to incomplete lysis, affect the amplification effect.
2. Ground the pestle to pound the tissue as much as possible, otherwise it will affect the cracking effect.
3. Each prepared template is best to be used and made now.
4. Store the prepared reagent C in-20℃.
5. If the sample protein content is high, the amount of reagent C can be used appropriately increased, and it is recommended not to exceed 4μL / sample.
6. This product is also suitable for direct PCR amplification of cell samples, charging trace cells.