

## Quick DNA Extraction Kit

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### Catalog Number:

Q665673 (5 ml)

Q665673 (50 ml)

Storage condition: -20°C

### Products content

Component	5 ml	50 ml
DNA Extract Solution A	5 ml	50 ml
DNA Extract Solution B	5 ml	50 ml

### Products Introduction

This product uses the principle that the difference between the concentration of salt ions inside and outside the cell can cause the cell membrane to burst to lyses the cell and releases the genomic DNA, without the need of extracting and purifying the genomic DNA. This product is suitable for a variety of sources of samples, and can be used as a template for PCR and qPCR experiments after sample processing, and can achieve the effect of the purified DNA used as a template for PCR and qPCR experiments.

### Usage

1. Depending on the type of sample, prepare the appropriate sample size according to the table below.
2. Add the sample to a 1.5-ml centrifuge tube and add the recommended volume of Solution A as shown in the table below. Vortex for 20 s and allow to stand at room temperature for 3-5 min or incubate in a metal bath at 95°C for 3-5 min as recommended in the table below.
3. After the sample has been sufficiently lysed (samples incubated in a metal bath at 95°C should be brought to room temperature), add the recommended volume of Solution B as shown in the table below and vortex for 30s.
4. Store processed samples at 4°C if the next test is to be performed within 2 hours, or at -20°C if the next test cannot be performed immediately.

Sample type	Sample size	Solution A	Processing temperature and time	Solution B
whole blood	10 µl	100 µl	Room temperature 3-5min	100 µl
cytoplasm	4,000.	40 µl	Room temperature 3-5min	40 µl
oral swab	1	400 µl	95°C 3-5min	400 µl
Mouse	1-2 mm	50 µl	95°C 3-5min	50 µl
organization	1-2 mm	50 µl	95°C 3-5min	50 µl
Hair with follicles	2-5 hair roots with	50 µl	95°C 3-5min	50 µl

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Leaf blade with	2-4 mm leaf veins	50 $\mu$ l	95°C 3-5min	50 $\mu$ l
torrent	2-3 mm / 2-5 mg	50 $\mu$ l	95°C 3-5min	50 $\mu$ l
paraffin section	10 $\mu$ m size, 2-3 sheets	200 $\mu$ l	95°C 3-5min	200 $\mu$ l

take note of

- 1) Depending on the requirements of the experimental conditions, the amount of samples can be expanded or reduced, and the amount of Solution A and Solution B can be increased in equal proportions.
- 2) For blood and cell samples, the temperature of room temperature lysis is required to be around 25°C. If the ambient temperature does not reach 25°, the lysis time can be extended appropriately, or the vortex shaking time can be extended to ensure that the samples are fully lysed. If there is no relevant professional instrument, the centrifuge tube can be shaken vigorously to ensure adequate lysis.
- 3) After the tissue sample is made into tissue homogenate by adding 10 times the volume of saline, it can be processed in the same way as blood samples.
- 4) Strictly prohibit the use of expired products, please do not mix different reagents.
- 5) laboratory supplies should be regularly cleaned and 10% of the 84 disinfectant solution or ultraviolet lamp for anti-pollution treatment, special areas dedicated to prohibit cross use, so as to avoid contamination, the end of the test, the bench should be cleaned immediately.