

Quick DNAExtraction Kit

Cat. No. : CW3011S (5 mL)
CW3011M (50 mL)

Storage Condition: Stored at-20 ℃

Components

Component	CW3011S (5 mL)	CW3011M (50 mL)
DNA Extract Solution A	5 mL	50 mL
DNA Extract Solution B	5 mL	50 mL

Introduction

This product uses the principle that the difference in salt ion concentration inside and outside the cell can cause the cell membrane to burst to lyse the cell and release the genomic DNA without extracting and purifying the genomic DNA. This product is suitable for samples from a variety of sources. After the sample is processed, it can be directly used as a template for PCR and qPCR experiments, and the purified DNA can be used as a template for PCR and qPCR experiments.

Protocol

1. According to different sample types, prepare the corresponding sample volume according to the table below.
2. Add the sample to 1.5 mL centrifuge tube, add the volume of Solution A recommended in the table below, vortex for 20s, and follow the treatment method recommended in the table below, let stand for 3-5 minutes at room temperature, or shake and incubate for 3-5 min at 95℃ in a metal bath.

3. After the sample is fully lysed (the sample incubated in a 95°C metal bath should be returned to room temperature), add the recommended volume of Solution B in the following table, and vortex for 30s.
4. If the processed samples are subjected to the next test within 2 hours, please store them at 4°C. If the next test cannot be performed immediately, store at -20°C.

Sample type	Sample size	Solution A	Processing temperature and time	Solution B
Whole blood	10 µL	100 µL	Let stand at room temperature for 3-5 min	100 µL
Cell	4000 cells	40 µL	Let stand at room temperature for 3-5 min	40 µL
Pral swab	1	400 µL	95°C, 3-5 min	400 µL
Rat tail/ear/cartilage	1-2 mm	50 µL	95°C, 3-5 min	50 µL
Tissue	1-2 mm	50 µL	95°C, 3-5 min	50 µL
Hair with follicles	2-5 hair roots with	50 µL	95°C, 3-5 min	50 µL
Leaf with veins	2-4 leaf veins	50 µL	95°C, 3-5 min	50 µL
Seed	2-3 mm/2-5 mg	50 µL	95°C, 3-5 min	50 µL
Paraffin Section	10 µm size, 2-3 sheets	200 µL	95°C, 3-5 min	200 µL

Note:

- 1) According to the needs of the experimental conditions, the amount of sample can be enlarged 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 for lysis at room temperature is required to be around 25°C. If the ambient temperature does not reach 25°C, the lysis time can be appropriately extended, 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 sufficient lysis.
- 3)After adding 10 times the volume of normal saline to the tissue sample to make tissue homogenate, it can be processed according to the processing method of the blood sample.
- 4) It is strictly forbidden to use expired products, and do not mix different reagents.
- 5) The laboratory supplies should be cleaned regularly and treated with 10% disinfectant ultraviolet lamp for anti-pollution treatment. The special area is dedicated, and cross-use is prohibited to avoid pollution.After the test, the workbench should be cleaned immediately.

This product is for scientific research only, which shall not be used for clinical diagnosis or other purposes.