

TGuide Large Volume Blood Genomic DNA Kit (1.2 ml)

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This product is for scientific research use only. Do not use in medicine, clinical treatment, food or cosmetics.

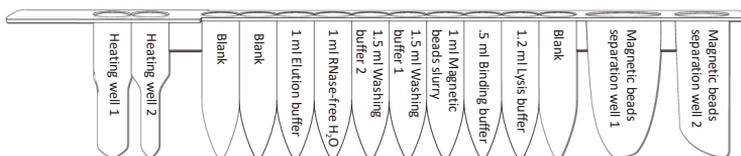
TGuide Large Volume Blood Genomic DNA Kit (1.2 ml)

Cat. No. OSR-M104

Kit Contents

Contents	OSR-M104 (48 rxn)
Prepacked Reagent Cartridge (104)	48
Pipette Tips/Tip Caps	48
1.5 ml Sample Tubes (luer lock)	50
1.5 ml Centrifuge tubes	50
Protease K	2×1 ml
Handbook	1

Reagent Cartridge:



Storage Conditions:

It can be stored dry at room temperature (15-30°C) for 12 months.

Product Description:

TGuide Large Volume Blood Genomic DNA Kit is specially designed to cooperate with TGuide M16 Automated Nucleic Acid Extractor to extract DNA (including genomic DNA, mitochondrial DNA, viral DNA) from 1.2 ml whole blood sample. Reagents needed for cell lysis and protein degradation, magnetic beads specifically adsorbing DNA, washing buffer and the like are prepacked in the reagent cartridges, and purified DNA is eluted in a low-salt buffer solution. The length of genomic DNA extracted by the kit is 20-30 kb, suitable for PCR or other enzymatic reactions.

Genomic DNA isolated from whole blood samples by magnetic bead separation technology can be directly used in various conventional operations without purification, including enzyme digestion, PCR, library construction, Southern hybridization and other experiments.

Extraction Yield:

Materials	Sample volume	DNA yield
Normal mammal whole blood	1200 μ l	30-40 μ g

*The white blood cell count of normal human whole blood should be in the range of $4 \sim 10 \times 10^6/\text{ml}$

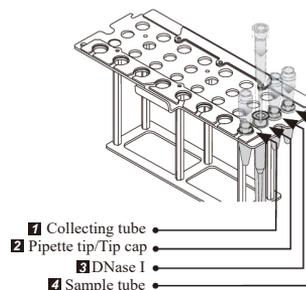
Product Features:

Simple and fast: Ultrapure genomic DNA can be obtained with only 76 min.

Reliable results: The obtained DNA is free from protein and RNA contamination and is able to use for PCR or fluorescence quantitative PCR.

Safe and harmless: The kit and the operation process do not need to use organic solvents harmful to human body such as phenol and chloroform. y such as phenol and chloroform.

The Setting of the T-rack:



Note: Read this note before using this kit.

1. This kit must be combined with TGuide M16 Automatic Nucleic Acid Extractor.
2. Repeated freezing and thawing of the sample should be avoided, otherwise the extraction yield will be decreased.

Operation steps:

1. Add 1.2 ml of blood sample to the sample tube, and add 40 μ l of Protease K.
2. Place the sample tube in the well 4 of the T-rack. Run program No.104 (large volume whole blood genomic DNA extraction program) and only select the final elution volume.

Note: It is recommended to select an elution volume of 200 μ l or 300 μ l when operating according to the above steps, as the sample volume is relatively large and a higher elution concentration can be obtained under this elution volume.

Start program

TGuide M16

Apply your specimen to TGuide after installing all necessary accessories.

Press START

After the Start button is pressed, the machine executes the calibration procedure, initializes, and moves all axes to the original position.

Enter the cartridge code and execute the program. The cartridge code is displayed on the prepacked reagent cartridge and the cover of the manual.

! The above code is for demonstration purposes, please refer to the reagent cartridge you will actually purchase.

Confirm the cartridge code you entered again and press Enter to select the sample volume on the next page.

Select the sample volume

Confirm the sample volume. Press Enter to enter the next page; Press ESC to return to the Stand-By page.

In this step, check whether the cartridge rack and T-rack are in the work area. Then press Enter to select the elution volume on the next page.

Select elution volume

In this process, the green LCD indicator lights up and the heater starts to heat up to 65°C for the lysis step. The TGuide LCD light is on at all times during the TGuide M16 program. Don't open the door at this time, it will cause an emergency stop. You may lose your sample due to machine interruption.

When the program is completed, an alarm sound can be heard and the green LCD indicator goes out.