BIO BASIC
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Product information

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One-Tube Clinical Sample DNA Extraction Kit

Catalog #: BS8403 / BS8404
Size: 100 preps / 500 preps
Storage: 4°C *

*: Check storage conditions for details.

Product Description:

The kit is designed for rapid isolation of genomic DNA from clinical samples such as blood, blood clot, saliva, hair, swab, cell shedding. A simple and fast lysis method was used, there is no need for phenol extraction, overnight digestion, DNA precipitation or column purification, the lysate can be use as PCR template directly. And the one-tube procedure minimizes the cross-contamination between samples. The procedure takes less than 15 minute, and the kit is suitable for high throughput PCR screening of large scale samples. Also works for other applications such as Genotyping, Transgene screening, Knockout analysis and Sequencing.

Features:

- Simple and rapid. Whole procedure takes approximately 15 minutes.
- The whole procedure is performed in one single tube to prevent cross-contamination among samples.
- Convenient for high-throughout PCR screening.
- Suitable for extraction of genomic DNA from various samples.

Components:

Components	BS8403 (100 preps)	BS8404 (500 preps)
Lysis Buffer-L	10 ml	50 ml
Protocol	1	1

Storage:

Transportation at ambient temperature, Store at 4°C, Valid for 1 year.

Protocol for Tissue Sample:

1. Sample Preparation

   A. *Blood.* Transfer 5-10 µl anticoagulated blood to a 1.5 mL centrifuge tube, add 500 µl PBS buffer or distilled water, mix by vortexing, centrifuge at 12,000 x g for 2 minutes, discard the supernatant carefully.

   B. *Blood clot.* Transfer 5 mg blood clot to a 1.5 mL centrifuge tube, add 500 µl PBS buffer or distilled water, mix by vortexing, incubate at room temperature for 5 minutes, centrifuge at 12,000 x g for 2 min, discard the supernatant carefully.

   C. *Saliva.* Transfer 20 µl saliva sample to a 1.5 mL centrifuge tube, add 500 µl PBS buffer or distilled water, mix by vortexing, centrifuge at 12,000 x g for 2 minutes, discard the supernatant carefully.

   D. *Cell.* Collect 1~3 x 10^7 cells by centrifugation, discard the supernatant.

   E. *Swab.* Cut off the swab, soak it in 500 µl PBS buffer or distilled water, incubate at room temperature for 5 minutes, centrifuge at 12,000 x g for 2 min, discard the supernatant carefully.

2. Add 100 µl Lysis Buffer-L, incubate at 56°C for 10 minutes.

   NOTE: Vortex Lysis Buffer-L before use.

3. Incubate the sample at 95~100°C for 5 minutes.

4. Vortexing and centrifuge at 12,000 x g for 3 min, save the supernatant for PCR template.

   NOTE 1: Avoid to take the pellet.

   NOTE 2: For PCR, a ratio of 1:5 or 1:10 of volume of DNA solution to volume of PCR system is recommended.