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**BIO BASIC INC.**

## One-Tube Swab DNA Extraction Kit

**T71612 & T71613 & T71614**

Version 5.0  
ISO9001 Certified

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## One-Tube Swab DNA Extraction Kit

**Product information for T71612/T71613/T71614:**

### Kit Contents

Components	T71612 20 Preps	T71613 100Preps	T71614 500Preps
Lysis-Buffer-S	4 ml	20 ml	100 ml
Proteinase K	0.4 ml	2 ml	10 ml
Universal Buffer NST	4 ml	20 ml	100 ml
Protocol	1	1	1

### Introduction

The kit is designed for rapid DNA isolation from a variety of samples including buccal swab, vaginal swab, and others, such as blood, dried blood, sperm etc. The one-tube manipulation can minimize cross-contamination between specimens, and whole procedure only takes approximately 15 minutes. Purified swab DNA can be directly used for PCR.

### Procedures

1. Collect buccal cells on swab and dry the swab at room temperature for about 10 minutes.

**Note:** A foam-tipped swab is recommended.

2. Add 200 µl Lysis-Buffer-S to a 1.5 mL centrifuge tube, add 20 µl of Proteinase K solution, and mix by vortexing.

**Note:** For batch extractions, Lysis-Buffer-S and Proteinase K may be pre-mixed at a ratio of 10:1 prior to use.

3. Place the dried buccal swab into the prepared lysis solution for 2 minutes and rotate the swab in the solution at least 5 times.

4. Rotate and press the swab firmly against the side of the tube to ensure that most of the liquid remains in the tube. Discard the swab.

5. Incubate the sample at room temperature for 5 min.

**Note:** Incubation at 56°C may enhance tissue lysis and amplification.

6. Incubate the sample at 95°C for 3 min.

**Note:** Tissues may not be completely digested at the end of the incubation, but this does not affect PCR performance.

7. Add 200 µl Universal Buffer NST, invert the tube for about 10 times or vortexing to mix thoroughly.

8. The mixture can be used as PCR template directly. Volume of this template should not exceed 1/10 of the total PCR reaction volume.

**Note:** No spin step is required.

9. Save the remaining samples at 4°C.

**Note 1:** The DNA is not sufficient for electrophoresis analysis.

**Note 2:** For long term storage, remove the undigested tissue or transfer the extracts to new tubes.

## Storage

The kit should be stored dry at room temperature (15–25°C), valid for 1 year under these conditions.

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