



TOOLS Quick Genotyping Kit

**For rapid extraction and amplification of
genomic DNA from animal tissue**

Contents

Introduction.....	2
Kit Contents	2
Protocol	3

Introduction

The EasyPrep DNA QuickExtract PCR Kit contains all the reagents required for rapid extraction and amplification of genomic DNA from animal tissue. This kit provides an innovated buffer system that lyses tissue and neutralizes inhibitors effectively. Organic extraction, column purification, and precipitation of the DNA are not necessary. Other advantages include convenience and high sensitivity, specificity, and stability. This kit is suitable for genotyping, regular PCR reactions, and large-scale gene detection.

Features

- No DNA purification necessary
- Contains preoptimized 2× PCR mix
- Works with low amounts of DNA

Kit Contents

Components	KGT-BB05 (200 preps)
Lysis buffer	20 mL
Digestion enzyme	800 µL
2×PCR Mastermix	2× 1.25 mL
RNase Free ddH ₂ O	2× 1mL

Storage

The lysis buffer and digestion enzyme can be stored at room temperature for up to 12 months. Store the 2× PCR MasterMix at 4°C for short-term or regular use or at –20°C for long-term preservation.

Protocol

1. Premix 96 μL of lysis buffer with 4 μL of digestion buffer.
2. Place 5–10 mg of animal tissue into a 1.5-mL microcentrifuge tube. Add 100 μL of the buffer from step 1, and incubate for 30 min at 65°C, ensuring the tissue is completely soaked with the lysis buffer. Invert the tube every 10 min.
3. Centrifuge the tube for a short period, and then incubate for 5 min at 95°C.
4. Transfer 1 μL of supernatant to a new microcentrifuge tube, and store at –20 °C or establish a PCR reaction immediately.

Example

Template	1 μL
Forward Primer	0.5 μL
Reverse Primer	0.5 μL
2× PCR MasterMix	12.5 μL
ddH ₂ O	≤25 μL

PCR setup (adjust the annealing temperature according to the primer design):

94°C 3 min	
90°C 30 s	} 30 cycles
55°C 30 s	
72°C 1 min	
72°C 5 min	

The product is for research purposes only and not for diagnostic or clinical use.