

2x Genotyping PCR Ready Mix (Catalog# TBS4003)

DESCRIPTION

The 2x Genotyping PCR Ready Mix is a ready-to-use solution containing all reagents required for PCR, including Taq DNA polymerase, dNTPs, MgCl₂, reaction buffer, tracking dye, density, PCR stabilizer and enhancer at optimal concentrations for consistent and efficient PCR amplification. It simplifies PCR assembly, so that only primers, DNA template and water need to be added, and the PCR products can be directly loaded onto electrophoresis gel (See image).

APPLICATIONS

- Genotyping; DNA mutagenesis.

KIT CONTENTS

2x 1.25 mL of 2x PCR Ready Mix
 2x 1.25 mL of DNase free water.
Sufficient reagent for 250 x 20µL

STORAGE CONDITIONS

The kit is shipped on ice, and stored at -20°C for long-term storage. Shelf life of 12 months after receipt.

KEY FEATURES

Convenient: 2x Genotyping PCR Ready Mix contains all components for PCR amplification. All you need to do is to add primers, template, and water for PCR reaction.

Hazard-free Visualization: Dyes are non-toxic and non-mutagenic.

No Loading Dye Required: The PCR products can be directly loaded onto electrophoresis gel.

High efficiency: the optimal buffer condition and specific engineered Taq DNA polymerase have increased the efficiency of PCR amplifications.

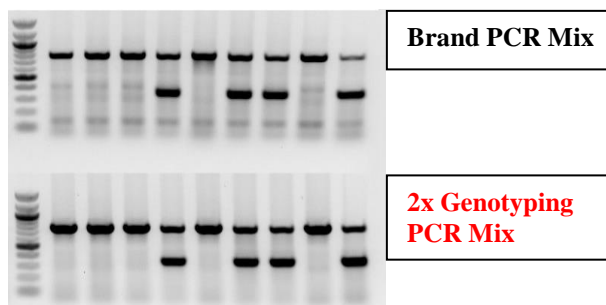
This product is for *in vitro* research use only and is not intended for use in humans or animals in therapeutic or diagnostic procedures.

SUGGESTED PCR PROTOCOL

20 µL/reaction
 2x PCR Mix: 10 µL
 Forward Primer: 10-20 pmol
 Reverse Primer: 10-20 pmol
 DNA template: <2 µL
 Nuclease-free H₂O: up to 20 µL

SUGGESTED PCR CONDITIONS

Step 1: 95°C for 5-10 minutes;
Step 2: 95°C for 10-30 seconds;
Step 3: 55-65°C for 30-90 seconds;
Step 4: 72°C for 30-120 seconds
Step 5: 25-35 cycles of steps 2-4
Step 6: 72°C for 5-10 minutes



Comparison between 2x Genotyping PCR and Brand PCR Mix

RELATED PRODUCTS

- Tail DNA Extraction kit (catalog# TBS6005)
- Fast DNA Extraction kit (catalog# TBS6008)
- 2x Regular PCR Kit (Catalog#TBS4004)
- 2x PCR Red Mix kit (catalog# TBS4005)

REFERENCES

1. Birch DE. (1996): Simplified hot start PCR. Nature, 381(6581): 445-446
2. Kellogg DE et al (1994): TaqStart Antibody: "hot start" PCR facilitated by a neutralizing monoclonal antibody directed against Taq DNA polymerase. Biotechniques. 16(6): 1134-7