

2x Sybr Green qPCR Mixture with Regular ROX (Catalog# TBS4001)

DESCRIPTION

Tribo™ 2x qPCR Sybr Green Master Mix with ROX provides a convenient qPCR reagent using SYBR Green I as detection dye. It is a 2x concentrated premix containing Taq DNA polymerase, dNTPs, Mg²⁺, SYBR Green I dye (detection), ROX reference dye and PCR buffer components. The product utilizes an enzyme for hot start, the Taq DNA polymerase, which confers a significant reduction in non-specific PCR amplification. As the enzyme buffer system is optimized for real time PCR, the product offers high amplification efficiency and high detection sensitivity in real-time PCR.

APPLICATIONS

This kit can be used for real-time PCR amplification.

KEY FEATURES

- ❖ Easy-to-use 2X premix reagent including SYBR Green I
- ❖ Hot start PCR enzyme enables high efficiency and sensitivity in real-time PCR (qPCR).
- ❖ Accurate detection and quantification of target gene through real time PCR.

KIT CONTENTS (200 tests)

2 x 1.0 mL 2x Sybr Green PCR mixture.

STORAGE CONDITIONS

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

SUGGESTED PCR RECIPE

20 µL/reaction
2x Sybr Green 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

95°C, 10 min. => (95°C, 5 sec. => 60°C, 30 sec.)
for 40 cycles => melting curve

RELATED PRODUCTS

Mouse Tail DNA Extraction kit (catalog# TBS6005)
Blood DNA Extraction kit (catalog# TBS6004)
10x DNA Loading Buffer (catalog# TBS5018)
6x DNA Loading Buffer (catalog# TBS5023)
TBE Buffer, 10x (catalog# TBS5007)
TAE Buffer, 10x (catalog# TBS5006)

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