Hot Start primer block PCR Mastermix (2x)

For research use only

Hot Start primer PCR Master (2x)	1 ml

Cat No : YT1554
Size : 1 ml
Store at -20 ◦ c

Hot Start primer block PCR Mastermix (2x) is a ready-to-use mix containing Hot Start Taq- antibody DNA Polymerase and a HotStart Binding Protein. the Hot Start DNA Polymerase combines Taq DNA polymerase and a specific antibody that inhibits the polymerase activity at ambient temperature and activated by heat treatment. HotStart Binding Protein is a novel hot-start technology which inactivate primers. The optimized buffer and hot-start technology used in this premixed enhances the specificity and sensitivity of PCR .The green dye allows direct loading of PCR products on to gels for electrophoresis.

Features:

- Easy reaction setup at room temperature
- Simply add primers and template
- High specificity due to antibody based hot start
- saves time and reduces contamination
- Minimizes amplification of non-specific products and primer dimers

Protocol:

1- Thaw the master mix and primers

2- Mix thoroughly before use to avoid localized concentrations of salts

3- Spin vials briefly before use

4- For each 25-µL reaction, add the following components

Dye plus hotstart master mix2X	10 µl
Primer F	1 µl
Primer R	1 µl
Template DNA	<200ng
Water	to 20 µl
Total	20 µl

5- Gently vortex the samples and briefly centrifuge

6- Place the reactions in a thermal cycler.

7- Perform PCR using the recommended thermal cycling conditions outlined below:

Cycle	Duration of cycle	Temperature
1	15min	95°C
25-35	20-30 Sec 20-50 Sec 30-90 Sec	95°C 50-65°C 72°C
1	5-10min	72°C

**For maximum yield and specificity, temperatures and cycling times should be optimized for each new target or primer pair.