# LaboPass™ IP pro-Taq PCR Mastermix Cat. No. CMT7007



#### Lot No.

#### **Description**

- LaboPass™ IP pro-Tag PCR Mastermix is a 2x concentrated, ready to use reaction mixture containing optimized amount of IP pro-Tag Polymerase, dNTPs, reaction buffer, loading dye and stabilizers. This mixture is designed for ease of use, greater reproducibility and time savings. The user simply adds template DNA, primers, and DW to start the reaction.
- LaboPass<sup>™</sup> IP pro-Taq DNA Polymerase is a modified version of Taqpolymerase which improves the reliability and specificity of PCR reaction. The IP pro-Taq Polymerase has proofreading activity and is more thermostable than wild type Taq DNA polymerase, which allows for the amplification of long length up to 20 kb with high accuracy. The amplified products contain a mixture of blunt ends and 3' A-plus ends.

## **Specifications**

Components IP pro-Taq Polymerase, dNTPs, reaction buffer,

loading dye stabilizers

Ready-to-use Type

(Only DNA template and primers are needed)

Reaction volume

(PCR Mastermix is a 2x concentrated)

Store at -20℃

# **Storage and Stability**

LaboPass<sup>™</sup> PCR Mastermix is stable for 1 year when stored at -20°C.

# **Applications**

- · General PCR for detection template
- · Long range PCR
- TA-cloning

## **Quality Control**

Each lot of IP pro-Tag polymerase, reaction buffer and dNTPs is tested for contamination such as *E.coli* genomic DNA, nicking, endonuclease and exonuclease.

#### **Standard Reaction**

Components	Volumes (µI)
2X IP pro-Taq PCR Mastermix	10 µl
Forward Primer (10~50 pmoles/µI)	1 µl
Reverse Primer (10~50 pmoles/µI)	1 µl
DNA Template (Variable*)	1~2 µl
Distilled water	6~7 µl
Total reaction volume	20 µl

#### \* Amount of DNA template

10-200 ng - Eukaryotic genomic DNA 1-50 na - Prokaryotic genomic DNA - Purified homogeneous DNA <5 ng (e.g. plasmid, lambda DNA. etc) - cDNA: 0.5-10% of RT reaction volume

### **General Thermo-Cycler protocol**

Step	Time	Temperature
Initial denaturation	1-5 min	94-95°C
25-35 Cycles: Denaturation Annealing Extension	10-25 sec 10-25 sec 60 sec/1 kb	94-95°C 45-70°C 68-72°C
Final extension	5 min	68-72°C

#### \* Note

- Vortex all solutions and spin down carefully before using
- Dispense on ice and spin down again

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