

# HiSense™ DLRTaq PCR Premix

Cat. No. LDLP-96, LDLP-480

## 1. Product Information

### Introduction

HiSense™ DLRTaq PCR Premix is designed to perform a PCR reaction easily by dispensing HiSense™ DLRTaq PCR Master Mix into an 8-strip tube.

This product is optimized for amplifying DNA templates up to a length of 40 kb. Excellent proofreading, amplification processivity, and speed consistently provide accurate and reliable amplification results for long templates.

### Application

- Long range PCR
- Allele specific PCR
- 16S and 23S rRNA gene amplification
- Detection of bacteria in samples(e.g. blood)
- DNA labeling reactions & TA-cloning
- Sequencing / cycle sequencing

## 2. Contents and Storage

### Materials Provided

Label	LDLP-96	LDLP-480
2X DLRTaq Premix	8-Strip × 12ea	8-Strip × 60ea

### Storage

Store at -20°C

Check the label on the product for expiration date.

## 3. Test Protocol

### Reaction mixture (for 20µl reaction)

Reaction components	Volume
2X DLRTaq Premix	10 µl
Forward primers, (10pmol/µl)*	1 µl
Reverse primers, (10pmol/µl)*	1 µl
Template DNA**	2 µl
DNase free water	up to 20 µl
Total volume***	20 µl

\* A final primer concentration of 0.5 µM is optimal in most cases but may be individually optimized in a range of 0.2 µM to 1.0 µM.

\*\* The optimal quantity varies depending on the number of target copies present in the template solution. Use no more than 250 ng.

After tapping the 8-strip tube containing the above reaction mixture, briefly spin-down it.

### PCR reaction condition

Steps & Cycles	Temp(°C)	Time	Cycles
Pre heat	95	5 min	1
Denature	95	30 sec	30~40
Anneal*	60	30 sec	
Extend**	68	1 min	
Final extension	72	5 min	1

\* Optimal annealing temperature depends on the melting temperature of the primers.

\*\* Generally, 1 min/kb and higher than 3 kb, set it to 1.5 to 2.0 min/kb.