

## Hot Start Taq DNA Polymerase (Glycerol-free)

<b>Catalog Number</b>	LDG0010RF
<b>Package</b>	500 U / 1,000 U / Customized package

For full product information, images and publications, please visit [our website](#).



### Overview

#### Description

Leadgene® Hot Start Taq DNA Polymerase contains Taq DNA Polymerase and an anti-taq monoclonal antibody which blocks polymerase activity. Enzyme activity is recovered during the initial incubation step while the taq antibody is denatured and dissociates from the DNA polymerase. Hot Start Taq DNA Polymerase exhibits higher specificity, sensitivity, and yield by reducing non-specific amplification and primer-dimers. This enzyme possesses 5'→3' polymerase activity and 5' → 3' exonuclease replacement activity, but lacks a 3' → 5' exonuclease (proof-reading) activity. Hot Start Taq DNA Polymerase is suitable for most PCR applications. The enzyme formulation does not contain glycerol and is compatible for further lyophilization process.

#### Components

Package	Items	Quantity
500 U	Hot Start Taq DNA Polymerase (Glycerol-Free) (5 U/μL)	1 vial (500 U)
	10× Hot Start Taq Buffer (Mg <sup>2+</sup> free)	1 vial (1 mL)
	25 mM MgCl <sub>2</sub>	1 vial (1 mL)
1,000 U	Hot Start Taq DNA Polymerase (Glycerol-Free) (5 U/μL)	1 vial (1,000 U)
	10× Hot Start Taq Buffer (Mg <sup>2+</sup> free)	2 vials (1 mL)
	25 mM MgCl <sub>2</sub>	2 vials (1 mL)

## Specifications

### Application

RT-PCR, qPCR

### Purity

>98% as determined by SDS-PAGE analysis.

### Form

Liquid

### Concentration

5 U/ $\mu$ L

### Unit Definition

One unit is defined as the amount of enzyme that will incorporate 10 nmol of dNTP into acid insoluble material in 30 minutes at 74°C.

## Instruction

### Shipping

The product is shipped with polar packs. Upon receipt, store it immediately at -20°C or lower for long term storage.

### Stability & Storage

This product is stable after storage at:

- -20°C or -80°C for 12 months under sterile conditions from date of receipt.

Avoid repeated freeze/thaw cycles.

**Disclaimer :** For Research Use or Further Manufacturing Only.