

## HOT START *Taq* DNA Polymerase (1000 Units)

Cat No. 110044

### DATA-SHEET

Hot Start *Taq* DNA polymerase is an optimized mixture of *Taq* DNA polymerase and anti-*Taq* DNA polymerase monoclonal antibodies. Antibodies block polymerase activity during set-up of the PCR reactions at ambient temperature (20-22°C). The inhibition of *Taq* DNA Polymerase is reversed when the temperature is above 70°C. The PCR products obtained with Hot Start *Taq* are free from non-specific products and primer-dimers.

#### UNIT DEFINITION :

One unit of activity is defined as the amount of enzyme required to incorporate 10 nmoles of dNTP's into acid-insoluble DNA fraction in 30 minutes at 72°C.

**CONCENTRATION SUPPLIED :** Enzyme is supplied at a Concentration of 5U/μl along with one vial of 10X buffer, one vial of additional MgCl<sub>2</sub> & one vial of DNA's free water.

**STORAGE BUFFER :** 10mM Tris-HCL (pH 7.0), 0.1mM EDTA, 50mM KCl, 50% glycerol.

#### CONTENTS OF THE PACK :

1000 units of Hot Start <i>Taq</i> DNA polymerase	50 μl	- 4 Vials
10 X Reaction buffer	1.5 ml	- 2 Vials
25 mM MgCl <sub>2</sub>	1.5 ml	- 1 Vials
Mol. Grade water	1.5 ml	- 4 Vials

#### 10X REACTION BUFFER COMPLETE INCLUDING MAGNESIUM (2.5 mM final 1x Conc.)

670mM Tris-HCL (pH 8.8), 160mM (NH<sub>4</sub>)<sub>2</sub>SO<sub>4</sub>, 0.1% Tween-20, 25mM MgCl<sub>2</sub>.

**MgCl<sub>2</sub> Solution :** 1.5 ml X 1 vials of 25mM MgCl<sub>2</sub> Solution (In case higher Conc. of Mg is to be used)

**Mol grade water:** Water is supplied in 1.5 ml X 4 vials, which is RNase and DNase free. It is advisable to aliquot the Mol. Grade water.

**Storage Conditions :** Recommended storage temperature is – 20 °C.

#### AVIALABLE PACK SIZE :

Cat. No.	PRODUCT	Pack Size
110041	Hot Start <i>Taq</i> DNA Polymerase	100 U
110042	Hot Start <i>Taq</i> DNA Polymerase	250 U
110043	Hot Start <i>Taq</i> DNA Polymerase	500 U (250 U x 2)
110044	Hot Start <i>Taq</i> DNA Polymerase	1000 U (250 U x 4)
110045	Hot Start <i>Taq</i> DNA Polymerase	5000 U (1000 U x 5)

**NOTE :** For research use only. Not for use in Diagnostic or therapeutic procedures.

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