

HOT START *Taq* DNA Polymerase (5000 Units)

Cat No. 110045

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 MgCl₂ & 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 :

| | | |
|---|--------|-----------|
| 5000 units of Hot Start <i>Taq</i> DNA polymerase | 200 μl | - 5 Vials |
| 10 X Reaction buffer | 1.5 ml | - 6 Vials |
| 25 mM MgCl ₂ | 1.5 ml | - 5 Vials |
| Mol. Grade water | 5 ml | - 5 Vials |

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

670mM Tris-HCL (pH 8.8), 160mM (NH₄)₂SO₄, 0.1% Tween-20, 25mM MgCl₂.

MgCl₂ Solution : 1.5 ml X 5 vials of 25mM MgCl₂ Solution (In case higher Conc. of Mg is to be used)

Mol grade water: Water is supplied in 5 ml X 5 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.

Genome Diagnostics Pvt. Ltd. shall not in any event be liable for incidental or special damage of any kind resulting from any use except on applications.



Manufactured and Marketed By :

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