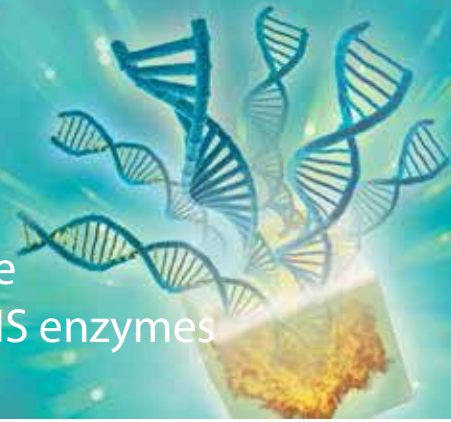


# ThermaStop Technology

Universal Hot Start DNA Polymerase Additive  
Dramatically improves PCR for nonHS and HS enzymes



The Hot-Start/Cold Stop additive that turns all DNA Polymerases into highest performing hot start enzymes.

New ThermoGenix ThermaStop™ Hot Start technology offers a new approach for great performance and value. Designed for consistently robust and reliable amplification, ThermaStop Hot Start Additive can help you more easily get the results you're looking for, with virtually any template, application, or target.

**ThermoGenix hot-start technology:**

- Prevents amplification of nonspecific products
- Amplifies low-abundance targets
- Provides convenient room-temperature setup

**Why use ThermaStop Universal Hot Start Technology?**

ThermaStop additive makes non-HS Enzymes into the hot-start version that out perform the modified Hot Start. ThermaStop also improves Hot Start DNA Polymerases to perform at higher level. This first in class hot-start technology offers higher yields and longer amplicons than conventional Taq-based products. In addition, due to the hot-start and cold stop feature ThermoGenix ThermaStop has been engineered to provide increased sensitivity and specificity.

**Features:**

- Minimized optimization of PCR Conditions Enzymes inhibited below 60 C.
- Minimized Primer Dimer formation Clean No Template Controls (NTC)
- Ability to use same cycling conditions as used with conventional Taq polymerase
- Wide range of amplicon lengths
- Successful High Yield Multiplexing
- Temperature Stability: loading options
- Compatibility with most PCR applications

Figure 1. Robust amplification of human genomic DNA. ThermaStop Technology with any DNA Polymerase produces more product, cleaner bands, and longer amplicons than hot-start DNA polymerases from other suppliers. Amplification products (160 bp, 727 bp, 2 kb, or 5 kb) from human genomic DNA are shown in the figure below. ThermaStop makes nonHS and HS enzymes perform better. 5 enzymes compared above.

Kapa Biosystems KAPA Taq in A or B Buffer and Roche Taq

NEB Q5 nonHS and HS Taq

Takara HS

Platinum Taq HS

