ThermaStop-RT Technology

Universal Hot Start Reverse Transcriptase Additive
Dramatically improves one step or two step RT-PCR

The Hot-Start/Cold Stop additive inhibits Reverse Transcriptases until 55°C. Enables difficult secondary structure and gene specific multiplex.

Why use ThermaStop-RT Universal Hot Start Technology for RT enzymes?

ThermaStop-RT additive inhibits and stabilizes Reverse Transcriptase eliminating non specific product formation. ThermaStop-RT also improves denaturing secondary structure and improving transcription of the target. This first-in-class technology offers higher yields and purer cDNA Synthesis for conventional one step or two step RT-PCR. Less non-specific products formed. ThermaGenix ThermaStop has been engineered to provide increased sensitivity and specificity.

Features:
- Minimized optimization of RT-PCR Conditions
- Enzymes inhibited below 55°C
- Minimized Primer Dimer formation
- Clean No Template Controls (NTC)
- Ability to use same cycling conditions as used with conventional Taq polymerase
- Reduces RNA secondary Structure
- Successful High Yield Multiplexing
- Low Temperature Stability: loading options
- Compatibility with most RT-PCR enzymes

**Increases Sensitivity in a Duplex One Step RT-PCR Assay**

![Image of gel electrophoresis showing sensitivity increase with ThermaStop-RT]

Company T

--- No ThermaStop-RT ---

1 | 2 | 1+2
A | B | C

--- ThermaStop-RT ---

1 | 2 | 1+2
A | B | C

Correct Products

Incorrect Products

 Primer Dimer

Target 1 - (152 bp)  Target 2 - (127 bp)

(A, B, C) – Constant amount of target 1 with 10 fold dilutions of target 2

M (E-Gel® 100 bp Ladder)  RT Incubation Temperature- 55°C