

# 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 55C. Enables difficult secondary structure and gene specific multiplex.

New ThermoGenix ThermaStop-RT™ Hot Start technology for gene expression qPCR and NGS applications. Performance and value. Designed for consistently robust and reliable cDNA production, ThermaStop-RT Hot Start Additive can help you more easily get the results you're looking for, with virtually any RNA construct or target.

**ThermoGenix hot-start technology:**

- Inhibits enzyme activity below 55C and reduces nonspecific products
- Amplifies low-abundance targets
- Convenient room-temp setup

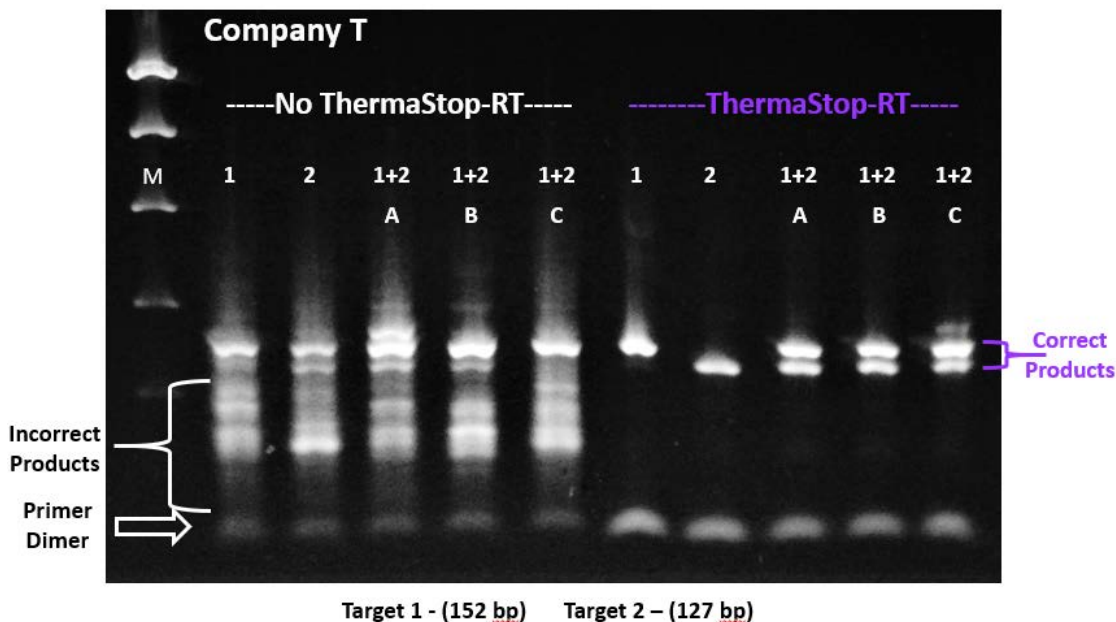
**Why use ThermaStop-RT Universal Hot Start Technology for RT enzymes?**

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. ThermoGenix ThermaStop has been engineered to provide increased sensitivity and specificity.

**Features:**

- Minimized optimization of RT-PCR Conditions Enzymes inhibited below 55C.
- 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



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