



2x Hot-Start Taq Mastermix

- For PCR assays requiring Hot Start
- Ultra-high specificity for multiplex reaction
- Highly suited to real-time assays
- Ready-to-go version
- Required less pipetting steps = improved reproducibility

PHENIX 2x Hot-Start Taq Mastermix is a complete ready-to-use heat-activated 2x reaction-mix, which simply requires the user to add only water, template and primers, and then pre-heat to 95°C for 10 minutes to successfully carry out PCR assays. The 10-minute activation step eliminates the presence of non-specifics such as primer-dimers and mis-primed products, since the enzyme is inactive at initial low temperatures.

2x Hot-Start Taq Mastermix is based on Hot-Start Taq Polymerase which leaves an 'A' overhang, and has been optimized for a wide variety of templates. An additional 50mM MgCl₂ solution is included should any fine adjustments be required.

2x Hot-Start Taq Mastermix dramatically reduces the time needed to set up reactions, thereby reducing the risk of contamination. Greater reproducibility is ensured, by reducing the number of pipetting steps that can lead to pipetting errors

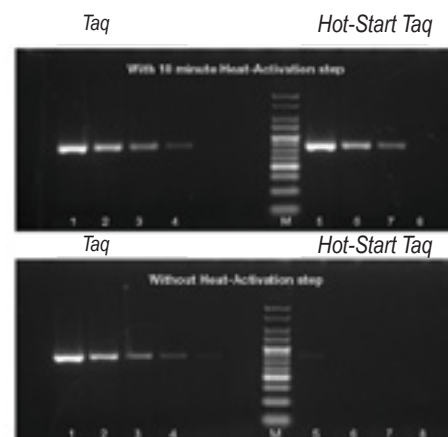


Illustration of Hot-Start Taq Polymerase

To illustrate the heat-activation property, a 125bp DNA fragment from plasmid pGEM was amplified using 1.0 Unit of Taq (lane 1-4) and 1.0 Unit of Hot-Start Taq Polymerase (lane 5-8). The pGEM fragment was amplified from 0.25ng plasmid DNA (pGEM) followed by 2-fold serial dilutions in 50ul reactions containing 1.5mM MgCl₂. Marker is HyperLadder V. Two tests were conducted, one with Hot-Start and one without Hot-Start. Taq exhibited activity in both tests, whereas Hot-Start Taq Polymerase only exhibited activity following a hot-start step.

Ordering Information

Cat No	Description	Unit	Price
DNP-H105	2x Mastermix for PCR Assays - Hot Start	100 Rxns	\$85.00
DNP-H205	2x Mastermix for PCR Assays - Hot Start	500 Rxns	390.00

Other Hot Start Assay Products

DNP-H100	Taq for PCR assays requiring Hot-Start 5u/ul	500u	\$210.00
DNP-H200	Taq for PCR assays requiring Hot-Start 5u/ul	2500u	799.00

Both product groups available with Red Loading Dye.



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