

Hotstart Taq Premix (Dye)

Product:	Hotstart Taq Premix (Dye)
CATALOG#:	BN0090-0001
Concentration:	2X
Volume:	1mL
Storage:	-20°C

Description

The Hotstart Taq Premix is a ready-to-use, 2X concentrated premix that contains all the reagents (except primers and template) need for running PCR. Simply add primers + template and water to successfully carry out PCR. Hotstart Taq Premix offers several advantages. Set up operation and time are significantly reduced. The chance of contaminating component stocks is eliminated. Reduction of reagent handling steps leads to better reproducibility. An inert blue dye and a stabilizer are also present to allow direct loading of the final products on to a gel for analysis.

Content

2X Hotstart Taq Premix containing:

- Hotstart Taq DNA polymerase
- Inert blue dye and a stabilizer
- dNTP mix including dATP + dCTP + dGTP + dTTP
- 7.5mM MgCl₂

General reaction mixture for PCR (total 25µl)

1. Set up each reaction as follows:

Component	Volume / reaction	Final conc.
Hotstart Taq Premix	12.5 µl	
Forward Primer	variable	0.2~1.0µM
Reversed Primer	variable	0.2~1.0µM
Template DNA	<1µg	
H2O	up to 25.0 µl	

2. Mix the solution thoroughly by pipetting up and down.
3. Program the thermal cycler according to the manufactures instructions.
4. Place the tubes in the thermal cycler and start the reaction.

Optimized Cycling Protocol

Initial activation step	10 min	95°C
Denaturation	0.5 min	94°C
Annealing	0.5 min	50~68°C
Extension	1 min (1kb)	72°C
Number of cycles	35~40	
Final extension	3 min	72°C

PCR performance test

High sensitivity of PCR is confirmed by using single copy plasmid as the template (amplified fragment: 450 bp).

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