

# *Fast-Run™ HotStart PCR Kit*

Vision 2.0  
Revised by 0824'05

## Product Description:

Cat# PT-945 / 100 Reactions

The Fast-Run™ HotStart PCR Kit is a one-tube reaction system designed for sensitive, fast, reproducible and convenient reaction of hot-start PCR. The Taq polymerase is an antibody inactivated hot start enzyme designed to minimize non-specific amplification while increasing target yield. Each tube of Fast-Run™ HotStart PCR Kit contains a pre-mixed, lyophilized reaction mix which, when reconstituted, yield a blue solution of reaction buffer, dNTP, Taq Polymerase and antibody.

## Each Tube Components:

Taq DNA polymerase: 2U	dNTPs: 1 mM
Buffer salts: +	Antibody: 2U
Stabilizer: +	

## General Protocol:

1. To a PCR Tube, add primers, template DNA and distilled water to 20 ul. (Total added volume is 20 ul)
2. Dissolve the lyophilized reaction mixture by vortexing and spin-down.
3. Add mineral oil to each tube (This step is unnecessary when using a thermal cycler employing a top heating system.).
4. Set up as follows:

Your sample    \*Perform PCR program as following:

Sterile H <sub>2</sub> O	x ul
DNA template	1pg-1ug
Upstream primer (10 uM)	1~2 ul
Downstream primer (10 uM)	1~2 ul
Total volume	20 ul

1 cycle	DNA Denaturation	94 <sup>0</sup> C	2 min
30-35 cycles	Denaturation	92 <sup>0</sup> C	30 sec
	Annealing	53 <sup>0</sup> C	30 sec
	Extension	72 <sup>0</sup> C	1 min
1 cycle	Extension	72 <sup>0</sup> C	5 min

(Annealing temperature and time should be optimized for each reaction.)

## Stability:

2 years at -20<sup>0</sup>C