Version No.: **FAL1715**

GenFQ Hot Start Taq Master Mix

GenFine Code: A109-01，A109-02

Storage condition: Transportation at ≤0℃, Store at -30 ~ -15℃, Valid period 2 years.

Description:

GenFQ Hot Start Taq Master Mix is a 2 × concentrated solution, including GenFQ Hot Start Taq DNA polymerase, dNTPs and all other components required for PCR, except DNA template and primers. This pre-mixed formulation saves time and reduces contamination due to a reduced number of pipetting steps required for PCR set up. The mix is optimized for efficient and reproducible PCR. The protective agent added in the amplification system made 2 × Taq Master Mix remained stable activity after repeated freezing and thawing. It has the advantages of high sensitivity, specificity and stability.

Components:

Components	A109-01	A109-02
2 × Hot Start Taq Master Mix	1 ml	1 ml ×5
ddH_2O	1 ml	1 ml×5

Applications:

Gene detection: especially suitable for large-scale gene detection, semi quantitative PCR experiment and micro DNA detection, High specificity, sensitivity PCR reaction, Genomic amplification with strong background (such as the detection of a specific gene site or foreign pathogen in the genome), etc.

Protocol:

1. Prepare the reaction solution as follows:

Components	**Volume（50 μl）**
2 × Hot start Taq Master Mix	25 μl
Forward Primer（10 μM）	1 μl
Reverse Primer（10 μM）	1 μl
Template DNA*	X μl
ddH_2O	Up to 50 μl

* Plants and animals Genomic DNA 1～500 ng, E.coli Genomic DNA 1～100 ng, λDNA 0.1～10 ng, Plasmid 0.1～10 ng.

2. Thermal cycling conditions:

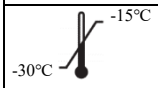
Perform PCR using recommended thermal cycling conditions:

Step	**Temperature**	**Time**	**Number of cycles**
1	95℃	2 min	1 cycle

2	95℃	15～30 sec	25～35 cycles
	55℃*	15～30 sec	
	72℃	1 kb/min	
3	72℃	5～10 min	1 cycle

*The annealing temperature should be 3～5℃ lower than the melting temperature (Tm) of the primers. For complex template, the annealing temperature must also be adjusted.

[Symbols]

Symbols	Meanings
	Manufacturer
	Authorized representative in the European Community
	*In vitro* diagnostic medical device
	This product fulfills the requirements of the European Directive 98/79 EC for in vitro diagnostic medical devices.
	Catalogue number
	Batch code
	Date of manufacture
	Use-by date
	Temperature limit
	Consult instructions for use
	Keep dry
	Keep away from sunlight
	Do not re-use
	Do not use if package is damaged

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