TOROIVD TECHNOLOGY COMPANY LIMITED.
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2 × HS Taq PreMix

【Catalogue Number】 TAO-201

【Packing Information】 500 reactions for a total 20 μL reaction volume.

【Description】

2×HS Taq PreMix is a hot-start Taq DNA polymerase-based 2× master mix, which contains all components, except for the primer and template DNA. Hot Start technology with anti-Taq DNA polymerase antibodies enables high specificity and reproducible amplification.The specially optimized PCR buffer make the mix more efficient amplification of GC-rich templates and more stable at room temperature. The premix can perform colony PCR and blood direct PCR.

【Feature】

-High specificity: Hot Start technology with anti-Taq DNA polymerase antibodies enables high specificity and reproducible amplification.
-Room-temperature stable: the performance is not easily decrease during storing and shipping.
-Direct PCR: The premix can perform colony PCR and blood direct PCR.

【Components】

TAO-201 can be used for 500 reactions for a total 20μL reaction volume.

Cat NO.	Components	Size
TAO-201	2×HS Taq PreMix	1 mL ×5 tubes/ bag

【Protocol】

1. Preparation of the reagent

-This premix should be fully thawed at room temperature in the bags, gently vortexed and briefly centrifuged.

Notes: *Due to the high concentration stabilizer，there may be crystal precipitation in the premix ，which can be used normally after being fully thawed at room temperature*

-Prepare the following reaction mixture in a thin-walled PCR tube :

Components	20 μL reaction volume
2×HS Taq PreMix	10.0 μL
10μM Reverse primer	1 μL
10μM Reverse primer	1 μL
Template DNA	X μL
PCR grade water	20- X μL
Total Volume	20 μL

Notes:

-The final concentration of purified DNA templates: 1-500ng for the human genomic DNA; 1-100ng for Escherichia coli is genomic DNA; 0.1-10ng for λ DNA; 0.1-10ng for plasmid DNA.
-For direct PCR amplification, the addition of whole blood should not exceed 5% of reaction volume,
-For colony PCR, the suspension of the colony should not exceed 10% of reaction volume.
-For designing primers, the amplicont should not exceed 1Kb and the GC content not exceed 80%.
-Gently mix the reaction solutions and spin down in microcentrifuge.

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2. Set up the cycling conditions

3-step PCR protocol				
1	Pre-denaturation	95℃	1-10min	1 cycle
2	Denaturation	95°C	15 sec	40 cycles
	Annealing	Tm-5°C	30 sec	
	Extension	72°C	60 sec	
3	Final Extension	72°C	5min	1 cycle

Notes: For colony PCR and direct PCR,the pre-denaturation time should be set for 10min.

【Storage】

This reagent can be stored at 2-8°C for 12 months.
For longer storage, this reagent should be kept at -20°C .

【Contact】

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