

U-HiFi PCR Master Mix (2x) (Cat#PU1000)

This protocol provided a general procedure for routine PCR using U-HiFi Master Mixes. These guidelines cover routine PCR. If target templates contains high GC content, high secondary structure, low template concentrations or long amplicons, further optimization would be need.

Protocol

1. All components should be mixed and centrifuged prior to use.
2. Set up all reaction as below table, mix the reaction well, spin down all liquid to the bottom of the tube.
3. Transfer the reactions to a thermocycler preheated to the denaturation temperature (98°C).

Component	25 μ l Reaction	50 μ l Reaction	Final Concentration
10 μ M Forward Primer	1.25 μ l	2.5 μ l	0.5 μ M
10 μ M Reverse Primer	1.25 μ l	2.5 μ l	0.5 μ M
Template DNA	Genomic: 25~125 ng Plasmid: 1 pg~5 ng	Genomic: 50~250 ng Plasmid: 1 pg~10 ng	< 250 ng
DMSO (optional, not provided)	(0.75 μ l)	(1.5 μ l)	(3%)
Nuclease-free water	to 12.5 μ l	to 25 μ l	
2X Phusion Master Mix	12.5 μ l	25 μ l	1x

PCR conditions:

Step	Temp (°C)	Time (Sec)
Initial Denaturation	98°C	30 Sec
25~35 Cycles	98°C	5~10 Sec
	45~72°C	10~30 Sec
	72°C	15~30 Sec/kb
Final Extension	72°C	10 min
Hold	4°C	