



Taq PCR EasyMasterMix

User's Instruction

Description

Taq PCR EasyMasterMix is our basic solution for PCR reactions.

This mix contains Taq DNA polymerase, dNTPs, MgCl₂, and buffer. Taq DNA polymerase has both 5'-3' DNA polymerase activity and 5'-3' exonuclease activity, without 3'-5' exonuclease activity. The extension rate of Taq DNA polymerase is 1-2 kb/min.

By using 1 x Taq PCR MasterMix, PCR reaction can be performed by simply adding only primers and templates, which reduces pipetting operations and maximizes throughput and repeatability of results. The EasyMasterMix itself contains blue-purple dyes, which can be directly sampled for gel electrophoresis after amplification.

Protocol

Setting up PCR reaction

1. Prepare the reagents required for the PCR reaction and keep them on ice.
2. Set up PCR reaction as the following table (take 50 µl per well as an example):

Reagent	Volume	Final Concentration
Forward and Reverse Primer Mix (10µM each)	2 µl	400 nM
Template RNA	2 µl	10 pg-0.5 µg
1 x SuperGold™ High Fidelity PCR MasterMix	Up to 50 µl	1 x

3. Gently mix the reaction. Collect all liquid to the bottom of the tube by a quick spin.
4. Transfer PCR tubes from ice to a PCR machine.



Thermocycling Conditions for PCR (Recommended)

Step	Temperature	Time	# of Cycles
Initial Denaturation	94°C	3-5 min	1
Denaturation	94°C	30 sec	25-35
Annealing	T _m -5°C	30 sec	
Extension	72°C	1 min/kb	
Final Extension	72°C	5 min	1

Storage

Stored at -20°C for 1 year.