SIGNALCHEM DIAGNOSTICS

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INSTRUCTIONS FOR USE

Product Name: PCR Master Mix (No Dye) **Catalog # TQ07-M29A**

Step 1. In a centrifuge tube, add the following components while keeping the reaction on ice:

2 µL	Forward Primer (10µM)
2 µL	Reverse Primer (10µM)
X µL	DNA Template
25 µL	PCR Master Mix
Up to 50 µL	ddH_2O

- Recommended amount for DNA templates:

50 ng-200 ng	Genomic DNA
10 pg-10 ng	Plasmid DNA

Step 2. Run the following thermal cycling settings:

Pre-denaturation	94°C	5 min	1 cycle
Denaturation	94°C	30 sec	35 cycles
Annealing	50-60°C	30 sec	
Extension	72°C	30-60 sec/kb	
Final Extension	72°C	10 min	1 cycle

- Recommended time for extension based on experiment:

30 sec	Molecular identification
60 sec	Gene cloning

- The annealing temp can be set 2-5°C lower than the theoretical value of the primer.

Step 3. Store the PCR amplification products at -20°C to prevent DNA degradation.