

2X Taq PCR Mix-RED

Master Mixes standardise your results



Cat.No. RT803R

1250ul Ready to Use supplied as a 2X PCR Mastermix for optimal 50 μ l .reactions (50 x 25 μ l)
Store at -20°C

Recombinant	<input type="radio"/>
5' to 3' Exonuclease	<input type="radio"/>
3' to 5' Exonuclease	<input checked="" type="checkbox"/>
Terminal dA Addition	<input type="radio"/>
Endonuclease Free	<input type="radio"/>

Description : 2X Taq PCR Mix-RED is optimized mixture contain of Taq enzyme, reaction buffer, dNTP, enhancer and red dye as 2-fold concentration. 2x Redy mix is designed to allow the user for quick ,easy preparation and ready loading of reaction mixture.

The 2X Taq PCR Mix-RED can be amplification PCR products up to 3 kb and the products can be directly cloning into T-vector

Template: 2X Taq PCR Mix-RED is suitable for amplifying targets up to 3 kb from the following templates:

Genomic DNA: 10–200 ng
Plasmid DNA : 1–5 ng
cDNA : ~100 ng starting total RNA

Primers: Use 0.3 μ M per primer as a general starting point. For larger amounts of template (e.g., 200 ng genomic DNA), increasing the concentration up to 0.5 μ M per primer may improve yield

Annealing Temperature: The annealing temperature is slightly higher than with typical PCR. The optimal annealing temperature should be ~2°C lower than the T_m of the primers used. A range of 58–68°C is recommended.

Extension Time: As little as 30 seconds per kb is suitable for most targets. Use up to 60 seconds per kb for maximum yield.

PCR Protocol:

1. Thaw the 2X Taq PCR Mix-RED at room temperature. Vortex the 2x Redy mix and then spin it briefly in a micro centrifuge to collect the material in the bottom of the tube.
2. Prepare one of the following reaction mixes on ice:

Component	Vol./reaction	Final Conc.
Taq Master Mix RED	25 uL	1X
Primer A	Variable	0.1-1.0 uM
Primer B	Variable	0.1-1.0 uM
Distilled Water	Variable	----
Template DNA	Variable	1-10ul
TOTAL volume	50uL	----

1. Program the thermal cycler as follows:

Step	Temperature	Time	Cycle
Initial denaturation	94-96°C	0.5-2mins	1
Denaturation	94-96°C	0.2-2mins	15-30
Annealing	50-68	0.2-2mins	
Extension	68-75	1min/1kb	
Final extension	68-75	1-10mins	1

Step

After cycling, maintain the reaction at 4°C. Samples can be stored at -20°C until use.

Analyze products using standard agarose gel electrophoresis.

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