



2X KlanTaq Master Mix

Cat: KPG-KTMM (50 RXN)

Store at -20 °C

Contents:

KlanTaq Master Mix 50 RXN

Description:

2X KlanTaq Master Mix contains Klan Taq DNA polymerase, reaction buffer, dNTPs mixture, protein stabilizer, and optimizes the convenience to use by adding sediment for electrophoresis and 2X solution of loading dye. In general, 2X KlanTaq Master Mix shows no decline of activity compare with Taq DNA Polymerase, even in a room temperature. 2X Taq Premix is good for under 3 Kb of PCR products.

Kit storage:

This kit should be stored at -20°C. Unnecessary repeated freeze/thawing should be avoided. Under these conditions reagents are stable for two years from the date of production.

Features:

- Convenience to use and optimization
- 2mM final MgCl₂ concentration
- Contains Tracking Dye and Loading
- Contains combinations to avoid of primers dimers

General Reaction Protocol:

Prepare a master mix as following table.

Component	Volume	Final Concentration
2x KlanTaq Master Mix	11 µL	1x
Forward Primer (10 pmol/ µL)	0.5 µL	0.5 pmoles/ µL
Reverse Primer (10 pmol/ µL)	0.5 µL	0.5 pmoles/ µL
Template	Variable (1-1.5 µL)	50 ng/µL
PCR Grade Water	Variable 6.5-7 µL	-
Total Volume	20 µL	-

Amplification protocol: Thermal cycler could be adjusted as example table:

Cycle	Time	Temperatures °C
1	4 min	95
	30 sec	94
30-35	30 sec	50-65
	30-60 sec	72
1	5 min	72

For PCR products longer than 5 Kb, use an extension time of approximately 1 min. per Kb DNA.

Agarose Gel Electrophoresis:

Run the total 5-7 µL of PCR products alongside 3µL DNA marker on agarose; gel containing DNA Viewer safe stain.

A DNA fragment which is amplified by Taq DNA Polymerase has A-overhang, and it enables you to do cloning by using T-vector.

Disclaimers and Addresses:

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