



2X Taq PCR Master Mix

(Cat. No.: S2GNM02j30004)

Description:

This PCR Master Mix is a 2X concentrated solution containing recombinant Thermostable DNA polymerase, dNTPs, and all the components required for PCR. It can significantly save time in setting up a reaction, as you only need to add the primer and template to the solution.

The stability of the 2X Taq PCR Master Mix is not affected by temperature fluctuations, and the enzyme maintains consistent performance even when stored at 37°C for about 20 days. It is compatible with the majority of commercially available PCR systems.

This set of reagents provides a tube of loading buffer, which is the dark blue DNA loading buffer used for electrophoresis. It contains Orange G & xylene cyanol FF as tracking dye allowing users to easily track the movement of sample DNA on the gel during electrophoresis.

Kit Contents:

Contents	S2GNM02j30004 (50 rxns)
2X Taq PCR Master Mix	1.25 ml x 1
6X DNA loading Buffer	1ml x 1

Storage:

The 2X Taq PCR Master Mix is stable for 3 months at 4°C or stable for 24 months at -20°C, and the 6X DNA loading Buffer is stable at 4°C for routine use or long-term storage at -20°C.

Protocol:

1. Thaw 2X Taq PCR Master Mix at 4°C. Mix thoroughly and centrifuge briefly.
2. Prepare the reaction mix on ice according to the recommendations in Table 1.

Table 1. Reaction Setup		
Components	Volume per 50µl reaction	Final Concentration
2X Taq PCR Master Mix	25 µl	1X
primers	Variable	200 nM per primer is recommended
DNA template	Variable	



3. Seal the tubes or plate, and vortex thoroughly. Centrifuge briefly to collect the samples at the bottom. Then load them into the thermal cycler.
4. Setup the thermal cycling program and run.
5. The 6X DNA Loading Buffer is suitable for agarose gel electrophoresis. Before loading, add 1 μ l 6X DNA Loading Buffer to every 5 μ l PCR product, mix them, and directly load to the gel

© Revision History ©

Description	Version	Date
Initial Release	S2GNM02j30004_Protocol_V1	Dec 2023