

PRODUCT INFORMATION

Catalog No.: D124R-25

Product Name: Taq Plus 2X PCR MasterMix

Size: 25ml

Description: Ready-to-use Master Mix, in the 2X format Red with *Taq* Plus DNA polymerase to which users only need to add template, primers and H₂O for the reaction. The *Taq* Plus Master Mix, in the 2X format Red also contains an inert, non-toxic red dye to visualize mixing; which also allows direct loading on gels after PCR for electrophoresis.

Taq Plus DNA Polymerase is a modified version of Taq DNA Polymerase, thus improving the fidelity and amplification length of the resulting DNA fragment. Amplified DNA contains both blunt-ended fragments and those with 3'-A overhangs, which allows users to choose either blunt-end or T-vector protocols to clone the amplified products.

Quality Control: Every lot is tested as to the integrity of the overall performance of the reaction system under the defined conditions for the enzyme.

Unit Definition: One unit incorporates 10 nmoles of dNTPs into acid-insoluble material in 30 minutes at 74°C.

Related ProductsCatalog No.● Tissue-Direct™PCR KitD300● 100bp DNA LadderM107● 1Kb DNA Ladder IIM108● DNA SafeStainC138● Standard-AgaroseA113● Ultra Bright LED Transilluminator SLB-01● UltraSlim® LED IlluminatorLB-16

1x Composition: 10mM KCl, 20mM Tris HCl (pH9.0), 16mM (NH₄)₂SO₄, 0.1% Triton X-100,

1.5mM MgCl₂*, 200μM dNTPs, 2.5units/25ul of *Taq* DNA polymerase, trace amount of red dye and enzyme stabilizers.

Storage: 4°C for up to one month, or -20°C for long term storage.

Magnesium Chloride: In general, 1.5mM MgCl₂ is recommended; this may vary with different conditions and primer sets. Some primers/templates may require adjustments for MgCl₂ concentration, which can be achieved as shown below:

Final MgCl ₂ conc.	Additional 25mM MgCl ₂ per 50µl reaction
1.5mM	
2.0mM	1.0µl
2.5mM	2.0µl

Directions for use: For a 50 μ l reaction: use 25 μ l of Taq Plus Mix Red; add template, primers and H₂O to a final volume of 50 μ l. Cycling conditions vary for different templates and primers. To start with, try 30 cycles as follows: denature at 94°C for 30sec, anneal around 55°C for 30sec, and extend at 72°C for 1 minute/kb. After the PCR cycles, extend at 72°C for another 5 minutes to complete the PCR. Then store the reaction at 4°C.

This product is for research use only.