

## Butter Taq 2X Master Mix

Date: 2012.10

Version: 12-01

Cat # : PT-BMM      Size : 1.25ML X 2 tube, 100 rxn  
SA-BMM      Size : 250μL, 10 rxn

### Product Description:

The **Butter Taq 2X Master Mix** is a ready-to-use PCR mixture for all PCR applications. It offers a convenient, reproducible PCR mix that minimizes the multiple handling steps associated with setting up a PCR. It is containing Butter Taq DNA polymerase (need pre-heat), reaction buffer, dNTPs, MgCl<sub>2</sub> and stabilizers.

Butter Taq DNA polymerase

**Butter Taq 2X Master Mix** contains a special formula that keeps the DNA polymerase activity in the silence state at room temperature at last for 3 hours. When the PCR cycling is begun, the enzyme activity is restored due to rising temperature over 50°C. This phenomenon is effective to reduce nonspecific amplification when setting up PCR reaction mix at room temperature and to increase PCR sensitivity when amplify low copy samples. Unlike the traditional hotstart master mix, **Butter Taq 2X Master Mix** do not need to perform time consuming "Hotstart activation" but still reveal the highly specific amplification results.

It can amplify up to 5kb specific DNA fragment from 10pg lambda DNA. Users only have to add primers, template, **Butter Taq 2X Master Mix** and water to a final volume of 50 μL to have a complete PCR reaction mix.

**Components:** Store at -20 °C

### General Protocol:

Set up as follows:

Reaction Mix Preparation Table

Component	Volume
10μM forward primer	1 μL
10μM reverse primer	1 μL
Butter PCR Mix, 2X	25 μL
DNA template	X* μL
Sterile H <sub>2</sub> O	Up to 50 μL

\*X is variable depend on user's condition.

Suggested PCR Program

Stage	Temperature	Time
Initial denature	94-95°C	1-3 min
Denature	94-95°C	15-30 sec
Annealing	55-60°C	10-30 sec
Extension	72°C	1 min per kb
Final extension	72°C	5-10 min
Preservation	4-10°C	20 min -∞

- For experimental sample, please test for your own cycle conditions.
- Butter PCR Mix, 2X is very stable when operating at room temperature.
- Butter PCR Mix, 2X has very good efficiency
- The PCR mix is stored at -20°C for at least 6 month.

\*\*\*Research Use Only\*\*\*

Please do not hesitate to contact us while you have any questions.

Manufactured for and distributed by Protech Technology Enterprise Co.,Ltd

TEL : +886-2-2655-7677 / FAX : +886-2-2655-7601 / Toll Free : 0800-231-530

E-MAIL: service@bio-protech.com.tw ; tech@bio-protech.com.tw

WEB: <http://www.bio-protech.com.tw>