

Cat	Description	Quantity	Storage
EU022S	EUTaq 2X PCR Master Mix	6 mL	-20°C
EU012L	EUTaq 2X PCR Master Mix	30 mL	-20°C

### Product Description

EUTaq 2X PCR Master Mix is a ready-to-use mixture of high-fidelity engineered Taq DNA Polymerase, deoxynucleotides, and reaction buffer in a 2X concentration. It contains all the necessary reagents for amplification of DNA. EUTaq 2X PCR Master Mix is perfect for applications such as regular cloning, colony cloning and genotyping.

Engineered high fidelity EUTaq can amplify DNA products up to 8 kb.

### Features

- Saves preparation time by combining DNA Polymerase, dNTPs, reaction buffer and loading dyes in a ready-to-use mixture.
- High-specificity and fast PCR amplification.

### Shipping and Storage

EUTaq 2X PCR Master Mix is stable at 37°C for several weeks. We ship it at room temperature to reduce the shipping cost. The product can be stored at 4°C for one year. For long-term storage, please keep it at -20°C.

Technical support: [support@eu-bio.com](mailto:support@eu-bio.com)

### Protocol

	20 µl reaction	50 µl reaction	Final
EUTaq 2X Master Mix	10 µl	25 µl	1X
10 µM primer A	1.25 µl	2.5 µl	500 nM
10 µM primer B	1.25 µl	2.5 µl	500 nM
Template DNA*	variable	variable	
Nuclease-free water	to 20 µl	to 50 µl	

\* Recommended amounts of DNA template for a 50 µl reaction: 50 ng - 250 ng for genomic DNA, 1 pg - 10 ng for plasmid or viral DNA

### Cycling Condition

	Temperature	Time	Cycle
Initial Denaturation	96 °C	3 min	1
Denaturation	96 °C	10 sec	
Annealing	52 - 68 °C	30 sec	30 - 35
Extension	72 °C	20 - 40 sec/kb	
Final Extension	72 °C	10 min	1
Hold	4 °C		

### Notes:

- EUTaq is tolerant with wide range of annealing temperature. We recommend to use 56°C - 60°C as the starting point.
- For best result, annealing temperature should be +2 of the lower T<sub>m</sub> primer. Primer T<sub>m</sub> calculation for EUTaq Master Mix can be performed at our website: <http://eu-bio.com/tm.php>