SciPhi™ PCR Master Mix (2x)

#NXG333

Contents and storage

Cat. No.	Product Description	Volume	Storage
NXG333	PCR Master Mix (2x)	4 x 1.25 ml	-15°C to 25°C
	Water, nuclease-free	4 x 1.25 ml	

Product Features

- The SciPhi™ PCR Master Mix is a pre-mixed solution that includes *Taq* DNA polymerase, dNTPs, and other essential components required for PCR. It has a 2X concentration.
- This pre-mixed formulation is optimized to provide efficient and reproducible PCR, which reduces the number of pipetting steps needed for PCR set up. This saves time and minimizes the risk of contamination.
- The SciPhi™ PCR Master Mix is suitable for various PCR applications, including high-throughput PCR, routine PCR, and RT-PCR. Its optimized formulation ensures high reproducibility, making it easier to obtain consistent results.
- The product is also ideal for generating PCR products that can be used for TA cloning. This makes it a versatile solution for researchers looking to clone their PCR products for downstream applications.
- Using the SciPhi™ PCR Master Mix can simplify and streamline your PCR workflows, making it easier to achieve reliable and accurate results.
- The product is available in various formats, which allows researchers to choose the best option for their specific experimental requirements.
- The SciPhi™ PCR Master Mix is a trusted solution that has been extensively tested and validated for quality and performance.

Composition of PCR Master Mix (2X)

0.05 U/µl *Taq* DNA polymerase, reaction buffer, 4 mM $MgCl_2$, 0.4 mM of each dNTP (dATP, dCTP, dGTP and dTTP).

Instruction for use

1. Thaw at room temperature then gently vortex and briefly centrifuge PCR Master Mix.
2. Place a thin-walled PCR tube on ice and add the following components for each 50 µl reaction volume.

Component	Required Volume / Concentration
PCR Master Mix (2X)	25 µl
Forward primer	0.1-1.0 µM
Reverse primer	0.1-1.0 µM
Template DNA	10 pg - 1 µg
Water, nuclease-free	upto 50 µl
Total volume	50 µl

3. Gently vortex the samples and spin down.
4. Perform PCR using the recommended thermal cycling conditions outlined below:

Step	Temp.	Time	Number of cycles
Initial denaturation	95°C	1-3 min	1
Denaturation	95°C	30 s	25-40
Annealing	Tm -5°C	30 s	
Extension	72°C	1 min/kb	
Final Extension	72°C	5-15 min	1

Guidelines for preventing contamination of PCR reaction

- Prepare DNA sample, set up the PCR mixture, perform thermal cycling and analyse PCR products in separate areas.
- Set up PCR mixtures in a laminar flow cabinet equipped with an UV lamp.
- Use reagent containers dedicated for PCR and fresh gloves for DNA purification and reaction set up.
- Use pipette tips with aerosol filters to prepare DNA samples and perform PCR set up in dedicated area.
- It is recommended to always use “no template control” (NTC) reactions to check for contamination.

Troubleshooting

For troubleshooting please email us at **info@nextgenlife.com**.

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