

**MBT061**

**2X PCR TaqMixture**

Product Name	Product Code	Kit Packing**
2X PCR TaqMixture	MBT061-20R	20r (0.5 ml)
	MBT061-50R	50r (1.25 ml)
	MBT061-100R	100r (2.5 ml)

**\*\* The product is supplied with a vial of Molecular Biology Grade Water.**

**Description:**

2X PCR TaqMixture is a premixed, ready-to-use solution containing Taq DNA polymerase, dNTPs, MgCl<sub>2</sub> and reaction buffers at optimal concentrations for efficient amplification of DNA templates by PCR. This pre-mixed formulation saves time and reduces contamination due to a reduced number of pipetting steps required for PCR set up. The mix is optimized for efficient and reproducible PCR.

**Standard Procedure:**

1. Thaw the 2X PCR TaqMixture at room temperature. Vortex the master mix, then spin it briefly in a microcentrifuge to collect the material at the bottom of the tube.
2. Prepare one of the following reaction mixes on ice:

**For a 25 µl reaction:**

Sr.No.	Components	Amount to be added	Final Concentration
1	2X PCR TaqMixture, 2X	12.5 µl	1X
2	Upstream primer, 10µM	0.25–2.5 µl	0.1–1.0µM
3	Downstream primer, 10µM	0.25–2.5µl	0.1–1.0µM
4	Template DNA	1-5 µl	<250ng
5	Molecular Biology Grade Water	Upto 25 µl	-

**For a 50 µl reaction:**

Sr.No.	Components	Amount to be added	Final Concentration
1	2X PCR Taq Mixture, 2X	25 µl	1X
2	Upstream primer, 10µM	0.5–5.0 µl	0.1–1.0µM
3	Downstream primer, 10µM	0.5–5.0 µl	0.1–1.0µM
4	Template DNA	1-5 µl	<250ng
5	Molecular Biology Grade Water	Upto 50 µl	-

3. If using a thermal cycler without a heated lid, overlay the reaction mix with 1–2 drops (approximately 50µl) of mineral oil to prevent evaporation during thermal cycling. Centrifuge the reactions in a microcentrifuge for 5 seconds.

Please refer disclaimer Overleaf.



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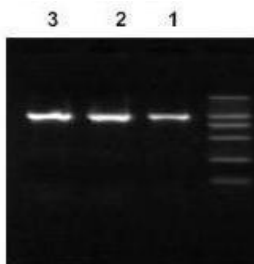
4. Place the reactions in a thermal cycler that has been preheated to 95°C. Perform PCR using your standard parameters.

#### Quality Control:

Each lot of 2X PCR TaqMixture is functionally tested for performance in semi-qPCR; free of endo-, exo- deoxyribonuclease, ribonuclease and nicking activities.

#### Storage and shelf-life:

2X PCR TaqMixture should be stored at -20°C and is stable for 6 months when stored under proper conditions.



Genomic DNA (50ng, 10ng, 1ng) was amplified for 35 cycles with primers for human GAPDH gene and 2X PCR TaqMixture

#### Technical Assistance

At HiMedia, we pride ourselves on the quality and availability of our technical support. For any kind of technical assistance, mail at [mb@himedialabs.com](mailto:mb@himedialabs.com).

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