

MBT089

Hi-Chrom PCR Master Mix

Product Name	Product Code	Kit Packing**
Hi-Chrom PCR Master Mix	MBT089-20R	20r (0.5 ml)
	MBT089-50R	50r (1.25 ml)
	MBT089-100R	100r (2.5 ml)

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

Description:

Hi-Chrom PCR Master Mix is a premixed ready-to-use solution containing Taq DNA polymerase, dNTPs, MgCl₂ and reaction buffers at optimal concentrations for efficient amplification of DNA templates by PCR. Hi-Chrom PCR Master Mix is recommended for any amplification reaction that will be visualized by agarose gel electrophoresis and ethidium bromide staining. The master mix is not recommended if any downstream applications use absorbance or fluorescence excitation.

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.

NOTE: Hi-Chrom PCR Master Mix is provided as a pre-mix with gel loading dye which does not hinder the amplification reaction as it does not contain any inhibitors.

Standard Procedure:

1. Thaw the Hi-Chrom PCR Master Mix 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	Hi-Chrom PCR Master Mix, 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	-

Please refer disclaimer Overleaf.

For a 50 µl reaction:

Sr.No	Components	Amount to be added	Final Concentration
1	Hi-Chrom PCR Master Mix, 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	-

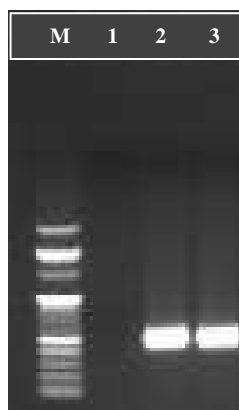
3. If using a thermal cycler without a heated lid, overlay the reaction mix with 1-2 drops (approximately 50µl) of mineral oil to prevent evaporation during thermal cycling. Centrifuge the reactions in a microcentrifuge for 5 seconds.
4. Place the reactions in a thermal cycler that has been preheated to 95°C. Perform PCR using your standard parameters.

Quality Control:

Each lot of Hi-Chrom PCR Master Mix is functionally tested for performance in semi-qPCR; free of endo-, exo- deoxyribonuclease, ribonuclease and nicking activities.

Storage and shelf-life:

Hi-Chrom PCR Master Mix should be stored at -20°C and is stable for 6 months when stored under proper conditions.



E. coli O157 DNA was amplified for 27 cycles using specific primers and Hi-Chrom PCR Master Mix

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.

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MBT089-02

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