

MBPCR089 Installation Kit for ECO 96/Prima Series/Wee Series of Thermal Cyclers

Description:

The Installation Kit for ECO 96/Prima Series/Wee Series of Thermal Cyclers is designed specifically for use during installation of ECO 96/Prima Series/Wee Series of thermal cyclers viz.

- **Prima 96™ Thermal Cycler (Product code: LA949)**
- **Prima DUO® Thermal Cycler (Product code: LA948)**
- **Prima Trio® Thermal Cycler (Product code: LA1006)**
- **Prima96PLUS™ Thermal Cycler (Product code: LA1015)**
- **Prima 384™ Thermal Cycler (Product code: LA1111)**
- **Prima Flexi® Series of Thermal Cyclers (Product code: MBLA021, MBLA022, MBLA023, MBLA024)**
- **Wee16® Series of Thermal Cycler (Product code: LA1059, LA1066)**
- **Wee32® Thermal Cycler (Product code: LA1060)**
- **ECO 96 Thermal Cycler (Product code: LA950)**

Kit Contents:

The provided PCR kit contains:

Components	Product Code	Reagents provided for 10R (reactions)
Hi-Quanti 2X Realtime PCR Mastermix	MBT180	260 µl
Primer Mix	DS0580	25 µl
Molecular Biology Grade Water for PCR	ML065	500 µl
6X Gel Loading Buffer	ML015	40 µl
100 bp DNA Ladder	MBT049	15 µl
Positive control	DS0581	15 µl

General Preparation Instructions:

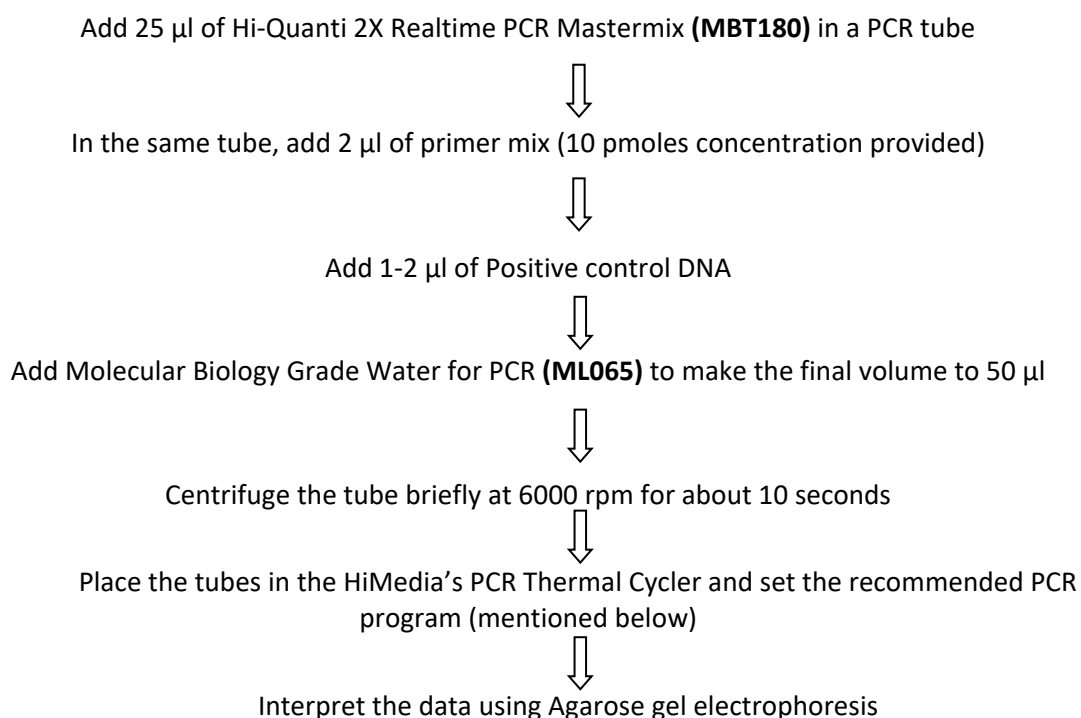
- Before use, suitable amount of all PCR components should be completely thawed on ice (4°C).
- Perform the amplification reactions in a clean area.
- Use of aerosol barrier pipette tips is recommended to reduce contamination risks from extraneous DNA templates.
- Extract and store positive control material (if used) separately from all other reagents to avoid contamination and add it to the reaction mix in a separate area.
- Centrifuge the components briefly once thawed.

Storage and Shelf-life:

The provided kit has a shelf-life of 12 months when stored at -20°C. Repeated thawing and freezing of PCR reagents should be avoided as this may reduce the sensitivity. If reagents are to be used multiple times, we recommend storing reagents as aliquots to avoid repeated freeze and thaw. Degradation of sample DNA specimens can also reduce sensitivity of the assay. HiMedia does not recommend using the kit after the expiry date stated on pack.

A) Protocol:

Preparation of PCR Reaction Mixture



B. Recommended PCR program:

1. Initial denaturation : 94°C for 5 minutes
2. Cycling Parameters (No. of cycles: 27)
 - Denaturation : 94°C for 30 seconds
 - Annealing : 56°C for 30 seconds
 - Extension : 72°C for 30 seconds
3. Final Extension : 72°C for 5 minutes

C. After amplification, the products can be kept at 4°C overnight or frozen at -20°C for long-term storage.

D. PCR Assay Results Interpretation

- For analysis of the PCR data, load 10 µl of amplicon on a 1.5% Agarose gel along with 1 µl of 6X Gel Loading Buffer (ML015).
- Load 4 µl of 100 bp DNA ladder (MBT049) in separate well.

E. EtBr-staining to check results

- Incorporate EtBr in the agarose gel or stain the agarose gel with EtBr for 10-15 minutes.
- Confirm the expected amplicon size comparing with 100 bp DNA marker.

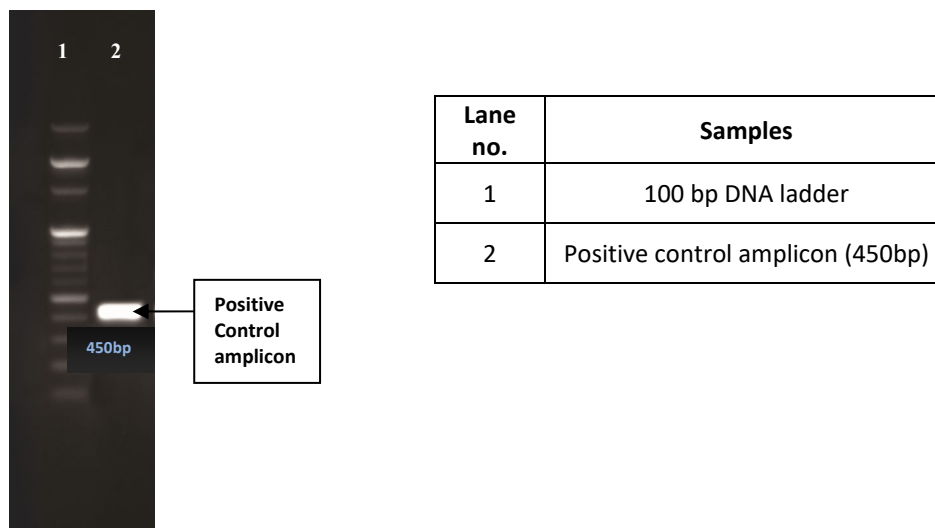


Figure: Gel image representing amplification of Positive control (450bp)

Quality Control:

Each lot of HiMedia's Installation Kit for ECO 96/Prima Series/Wee Series of Thermal Cyclers is assayed for contaminating endonuclease, exonuclease and non-specific DNase activities. Functionally tested in DNA amplification.

Troubleshooting Guide:

Sr.No.	Problem	Cause	Solution
1.	No amplification	Degraded samples	1. Check the integrity of DNA using agarose gel electrophoresis.
		Error in protocol setup	Verify that the correct reagent volumes, dilutions and storage conditions have been used.
2.	Variability between replicates	Error in reaction set-up	Prepare large volume reaction mix, vortex thoroughly and aliquot appropriately into reaction tubes.
		Air bubbles in reaction mix	Briefly centrifuge reaction samples/plate prior to running on a PCR machine.
		Pipetting error	Replicates can show increased variation due to poor laboratory techniques or imprecise pipettes.
3.	Amplification in negative control	Reagents contaminated	1. Replace all critical solutions. 2. Repeat the analysis of all tests with fresh aliquots of critical reagents.

Safety Information

The Installation Kit for ECO 96/Prima Series/Wee Series of Thermal Cyclers is for laboratory use only, not for drug, household or other uses. Take appropriate laboratory safety measures and wear gloves when handling.

Product Use Limitation & Warranty




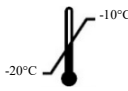




HiMedia guarantees the performance of product in the manner described in the product literature. The Installation Kit for ECO 96/Prima Series/Wee Series of Thermal Cyclers is designed and sold for research and *in vitro* purposes only. No claim or representation is intended to provide information for the diagnosis, prevention, or treatment of a disease.

All due care and attention should be exercised in the handling of the products. We recommend all users of HiMedia products to adhere to the NIH guidelines that have been developed for recombinant DNA experiments or to other applicable guidelines.

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.

Symbols

	Manufacturer		Do not use if package is damaged
	Batch code		Temperature limit
	Date of manufacture (YYYY-MM)		Consult instructions for use
	Use-by date (YYYY-MM)		Catalogue number

Identification No.: PIMBPCR089

Rev.No.:05

Date of Issue: 2026-03

Disclaimer :

User must ensure suitability of the product(s) in their application prior to use. Products conform solely to the information contained in this and other related HiMedia™ publications. The information contained in this publication is based on our research and development work and is to the best of our knowledge true and accurate. HiMedia™ Laboratories Pvt Ltd reserves the right to make changes to specifications and information related to the products at any time. Products are not intended for human or animal or therapeutic use but for laboratory, diagnostic, research or further manufacturing use only, unless otherwise specified. Statements contained herein should not be considered as a warranty of any kind, expressed or implied, and no liability is accepted for infringement of any patents.

HiMedia Laboratories Pvt. Ltd. Reg.office : Plot No. C-40, Road No. 21Y, MIDC, Wagle Industrial Area, Thane, (West) 400604, Maharashtra, INDIA.
Customer Care No.: 00-91-22-6116 9797 Tel: 00-91-22-6147 1919, 6903 4800 Email: techhelp@himedialabs.com Website: www.himedialabs.com