

## MBT086

## PCR Enhancer II

(A proprietary mixture containing DMSO)

HiMedia introduces PCR grade enhancers to reduce the risk of contamination and faulty PCR results. These PCR grade enhancers are assayed to ensure no risk of DNase, RNase contamination for all applications and also validated for use in PCR.

### Application:

Amplification of GC-rich templates may be difficult due to incomplete DNA strand separation at the denaturation stage, or due to primer secondary structure formation which competes for hybridization to the template.

PCR Enhancer II containing Dimethyl sulfoxide (1-10%) eliminates secondary structure formation, facilitates template denaturation and decreases melting temperature by 5–6°C; therefore, it is useful for analysis with GC-rich templates. It has been shown to accelerate strand renaturation and is believed to give the nucleic acid thermal stability against depurination. As a PCR co-solvent, PCR Enhancer II may help improve yields, especially in long PCR.

### Caution:

Supercools easily and remelts slowly at room temperature. Solidified product can be re-liquified by allowing it to thaw at room temperature without detriment to the product.

### Properties:

Grade	PCR Grade
Vapor density	2.7 (vs air)
Vapor pressure	0.42 mm Hg (20°C)
Autoignition temperature	573 °F
Boiling Point	189 °C(lit.)
Melting Point	16-19 °C(lit.)
Density	1.10 g/mL(lit.)

Please refer disclaimer Overleaf.

#### Registered Office :

23, Vadhani Industrial Estate, LBS Marg,  
Mumbai - 400 086, India.  
Tel. : (022) 4017 9797 / 2500 1607  
Fax : (022) 2500 2286

#### Commercial Office

A-516, Swastik Disha Business Park,  
Via Vadhani Indl. Est., LBS Marg,  
Mumbai - 400 086, India  
Tel: 00-91-22-6147 1919  
Fax: 6147 1920, 2500 5764  
Email : info@himedialabs.com  
Web : www.himedialabs.com



**Figure showing amplification of compost soil DNA using specific primers and MBT086 (Lanes 2 & 3) and no amplification without MBT086 (Lane 1)**

**Quality Control:**

All preparations are assayed for contaminating endonuclease, exonuclease, and non-specific DNase activities. Functionally tested in DNA amplification.

**Storage conditions:**

PCR Enhancer II should be stored at 2-8°C. When stored under the recommended conditions, the product is stable for 6 months.

**Technical Assistance:**

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

PIMBT086\_O/0814

MBT086-02

**Disclaimer :**

User must ensure 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 diagnostic or therapeutic use but for laboratory, 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.