

***ClearBand* 10x PCR Reaction Buffer, (w/o MgCl₂)**

5x1 ml

Cat No: PB10X

Shipping : Ship with wet ice.

Storage : Store at -20°C

General Information

ClearBand 10x PCR Reaction Buffer, (w/o MgCl₂) is a ready-to-use reaction buffer formulated for use in standard **PCR applications**. It is designed to provide the appropriate ionic strength and chemical environment required for efficient DNA amplification when used with compatible DNA polymerases.

ClearBand 10x PCR Reaction Buffer, (w/o MgCl₂) supports routine molecular biology workflows by helping maintain stable reaction conditions during thermal cycling. When diluted to **1x final concentration** in the PCR reaction, *ClearBand* 10x PCR Buffer, (w/o MgCl₂) contributes to reliable amplification performance and consistent results. It may be used as a core reaction component together with DNA polymerase, dNTPs, MgCl₂, primers, template DNA, and nuclease free water. The product is supplied in a convenient 5 × 1 mL format, allowing easy handling and helping reduce contamination risk during repeated use.

Recommended Use

Use at a 1x final concentration in the PCR reaction.

The final PCR mixture should be optimized depending on:

- DNA polymerase used
- MgCl₂ concentration
- primer design
- template type and amount
- cycling conditions

Handling Notes

- Thaw completely before use.
- Mix gently and briefly spin down before preparing reactions.
- Avoid repeated freeze-thaw cycles where possible.
- Use sterile laboratory techniques to prevent contamination.

Notes

- This product is intended for research use only.
- Reaction performance may vary depending on enzyme system and assay design.
- Users should optimize PCR conditions for their specific application.