

ClearBand MgCl₂, 25 mM

5x1 ml

Cat No: MG05

Shipping : Ship at ambient temperature.

Storage : Store at 4°C or at -20°C

General Information

ClearBand MgCl₂, 25 mM is a ready-to-use magnesium chloride solution developed for use in a variety of molecular biology applications, particularly **PCR and other enzymatic DNA amplification workflows**. Magnesium ions are essential cofactors for many DNA polymerases and play a critical role in enzyme activity, primer annealing behavior, product specificity, and amplification yield.

This product is designed to provide a convenient and reliable source of MgCl₂ for optimization of PCR reactions in cases where magnesium concentration needs to be adjusted independently from the reaction buffer. It is especially useful in assay development, troubleshooting, and optimization studies, where fine control of Mg²⁺ concentration can significantly affect amplification performance.

ClearBand MgCl₂, 25 mM is supplied as a ready-to-use solution, allowing easy handling and direct addition to PCR master mixes or other compatible reaction systems. The product helps researchers optimize reaction conditions for improved **yield, specificity, and reproducibility**.