

PRODUCT INSERT

MgCl₂ (25 mM)

Store at -20°C

Cat. No.	Pack Size	Concentration
PGN097	4 X 1.25 ml	25mM

Description

It is an aqueous solution of 0.22 µm membrane-filtered 25 mM magnesium chloride, which is used for optimization of magnesium ion concentration in PCR.

Applications

- PCR.
- Enzymatic reactions.

Ribonuclease Assay

Incubation with 0.5 µl of MgCl₂ (25 mM) with 0.08 µg of 2000 base RNA transcript at 37°C for 4 hours, no detectable RNA degradation was observed.

Nicking Activity Assay

Incubation of 1 µg of pUC19 DNA with 1 µl of 25 mM MgCl₂ at 37°C for 17 hours and analysis on gel generated no detectable conversion of covalently closed circular DNA to nicked DNA.

Labeled Oligonucleotide Assay

After incubation with 0.5 µl of 25 mM MgCl₂ at 37°C for 16 hours no detectable degradation of single-stranded and double-stranded 5'-[33P]-labeled oligonucleotides was observed.

Functional Assay

Functionally tested in the amplification of a single-copy gene from human genomic DNA.

