

PRODUCT INFORMATION

25 mM MgCl₂

#_ 4 x 1.25 ml

Lot: —

Store at -20°C

Description

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

Applications

- PCR.
- Enzymatic reactions.

CERTIFICATE OF ANALYSIS

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 (LO) Assay

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

Ribonuclease Assay

No detectable RNA degradation was observed after incubation with 0.5 µl of 25 mM MgCl₂ with 0.08 µg of 2000 base RNA transcript at 37°C for 4 hours.

Functional Assay

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

Quality authorized by:



Jurgita Zilinskiene

PRODUCT USE LIMITATION

This product is developed, designed and sold exclusively *for research purposes and in vitro use only*. The product was not tested for use in diagnostics or for drug development, nor is it suitable for administration to humans or animals. Please refer to www.thermoscientific.com/onebio for Material Safety Data Sheet of the product.

© 2012 Thermo Fisher Scientific Inc. All rights reserved. All trademarks are the property of Thermo Fisher Scientific Inc. and its subsidiaries.