

Certificate of Analysis

Magnesium Chloride Solution, 25mM:

Part No.	Size
A351B	750µl
A351F	25ml
A351H	1.2ml

Storage Conditions: See the Product Information Label for storage recommendations and expiration date.

Usage Note: Allow product to thaw completely, then mix well prior to use. Magnesium Chloride ($MgCl_2$) solutions tend to form concentration gradients upon freezing.

Quality Control Assays

Activity Assay

PCR Functional Assay: Magnesium Chloride Solution, 25mM, is tested for amplification performance in a polymerase chain reaction.

Magnesium Concentration: Magnesium concentration is confirmed spectrophotometrically using the Lancer method. The specification range is 25mM \pm 5%.

Contaminant Assay

Endonuclease Assay: One microgram of plasmid DNA is incubated in 50µl of 50mM KCl, 10mM Tris-HCl (pH 9.0 at 25°C), 0.1% Triton® X-100, 1.5mM $MgCl_2$ for 8 hours at 45°C, followed by 8 hours at 70°C. Following incubation, the plasmid DNA is visualized on an ethidium bromide-stained agarose gel to verify the absence of visible nicking.

Exonuclease Activity: One microgram of lambda DNA is incubated in 50µl of 50mM KCl, 10mM Tris-HCl (pH 9.0 at 25°C), 0.1% Triton® X-100, 1.5mM $MgCl_2$ for 8 hours at 45°C, followed by 8 hours at 70°C. Following incubation, the lambda DNA is visualized on an ethidium bromide-stained agarose gel to verify the absence of visible smearing.

RNase Assay: To test for RNase activity, 50ng of radiolabeled RNA is incubated with $MgCl_2$ at a final concentration of 5mM in a 25µl reaction volume for 2 hours at 37°C. Less than 3% of radiolabeled nucleotides are released as monitored by scintillation counting of TCA-precipitable and TCA-soluble material.

Magnesium Chloride Solution

REF A3511

LOT 0000255007

-30°C to -10°C
Conc: 25mM
1.5ml

2019-11-30

Dispensed Lot#: 0000241804

For Laboratory Use

Country of Origin: USA

Promega Corporation
2800 Woods Hollow Road
Madison, WI 53711-5399 USA



ADA3511 00002550075

PEEL
HERE



Promega

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Product must be within expiration date and have been stored and used in accordance with product literature. See Promega Product Insert for specific tests performed.

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Signed by:

R. Wheeler, Quality Assurance