

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 (MgCl₂) 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 +/- 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 MgCl₂ 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 MgCl₂ 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 MgCl₂ 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 0000294910
-30°C to -10°C
Conc: 25mM
1.5ml
2020-11-21
Dispensed Lot#: 0000289929

For Laboratory Use

Country of Origin: USA

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Promega



ADA3511 00002949107

PEEL
HERE



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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.

Signed by:

R. Wheeler, Quality Assurance

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