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 25 mM + /-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.



PCR Satisfaction Guarantee

Promega's PCR Systems, enzymes and reagents are proven in PCR to ensure reliable, high performance results. Your success is important to us. Our products are backed by a worldwide team of Technical Support scientists. Please contact them for applications or technical assistance. If you are not completely satisfied with any Promega PCR product we will send a replacement or refund your account.

That's Our PCR Guarantee!

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.

Fler Wheeler

R. Wheeler, Quality Assurance

Magnesium Chloride Solution

REF A3511

LOT 0000328842

2020-11-21

For Laboratory Use

Country of Origin: USA

Promega Corporation 2800 Woods Hollow Road





ADA3511 00003288427



Promega Corporation 2800 Woods Hollow Road	
Telephone	608-274-4330
Toll Free	800-356-9526
Fax	608-277-2516
Internet	www.promega.com

PRODUCT USE LIMITATIONS, WARRANTY, DISCLAIMER

Promega manufactures products for a number of intended uses. Please refer to the product label for the intended use statements for specific products. Promega products contain chemicals which may be harmful if misused. Due care should be exercised with all Promega products to prevent direct human contact.

Each Promega product is shipped with documentation stating specifications and other technical information. Promega products are warranted to meet or exceed the stated specifications. Promega's sole obligation and the customer's sole remedy is limited to replacement of products free of charge in the event products fail to perform as warranted. Promega makes no other warranty of any kind whatsoever, and SPECIFICALLY DISCLAIMS AND EXCLUDES ALL OTHER WAR-RANTIES OF ANY KIND OR NATURE WHATSOEVER, DIRECTLY OR INDIRECTLY, EXPRESS OR IMPLIED, INCLUDING, WITHOUT LIMITATION, AS TO THE SUITABILITY, PRODUCTIVITY, DURABILITY, FITNESS FOR A PARTICULAR PURPOSE OR USE, MER-CHANTABILITY, CONDITION, OR ANY OTHER MATTER WITH RESPECT TO PROMEGA PRODUCTS. In no event shall Promega be liable for claims for any other damages, whether direct, incidental, foreseeable, consequential, or special (including but not limited to loss of use, revenue or profit), whether based upon warranty, contract, tort (including negligence) or strict liability arising in connection with the sale or the failure of Promega products to perform in accordance with the stated specifications.

© 1997–2011, 2016 Promega Corporation. All Rights Reserved.

Triton is a registered trademark of Union Carbide Chemicals & Plastics Technology Corporation.

All specifications are subject to change without prior notice.

Product claims are subject to change. Please contact Promega Technical Services or access the Promega online catalog for the most up-to-date information on Promega products.

Part# 9PIA351 Printed in USA. Revised 10/16

Signed by: