


Nuc-Off Nucleases and DNA Removal Spray

For effective and safe elimination of Nucleases and DNA with a simple spray



Size: 30 mL, 450 mL, 1.8 L
Storage: 15-25 °C
Cat. No.: 112461030/112461450/112461451
Content Version: May 2026



Table of Contents

1. Product Introduction.....	3
2. Storage and Stability.....	4
3. Safety Precaution	4
4. Protocol.....	5
5. Order Information	5
6. Related Product Information	5
7. Product Use Limitation & Warranty	6

1. Product Introduction

MP Biomedicals Nuc-Off Nucleases and DNA Removal Spray is a ready-to-use solution for fast and cost-effective removal of RNase, DNase and DNA contamination. This non-toxic spray-type solution can effectively remove nucleases and DNA from the surface of laboratory consumables, instruments or other utensils, creating a clean environment for RNA or DNA-related experiments. It is strongly recommended to regularly clean your pipettors, bench surfaces, and instrument exterior with this spray to remove any nuclease contamination that may cause false positive or false negative experimental results.

Visit www.mpbio.com to explore additional products to support your research.

Product Features

- **Highly effective.** This product effectively removes DNase, RNase, and DNA, without affecting RNA stability. A small amount of residual product will not affect the subsequent experimental results.
- **Safe to use.** It is non-toxic but slightly corrosive. It is a very safe alternative to DEPC in some applications.
- **Easy to use.** Spray this product directly on the surface of an object, then wipe it off with clean tissues after 5 minutes. It can be applied to any equipment such as pipettors, thermocycler, centrifuge, bench or racks for test and centrifuge tubes, as well as almost all kind of materials including glassware, plastic, latex, and stainless steel.

Performance

MP Biomedicals Nuc-Off Nucleases and DNA Removal Spray has been proven to effectively remove RNase, DNase, and DNA without affecting RNA stability.

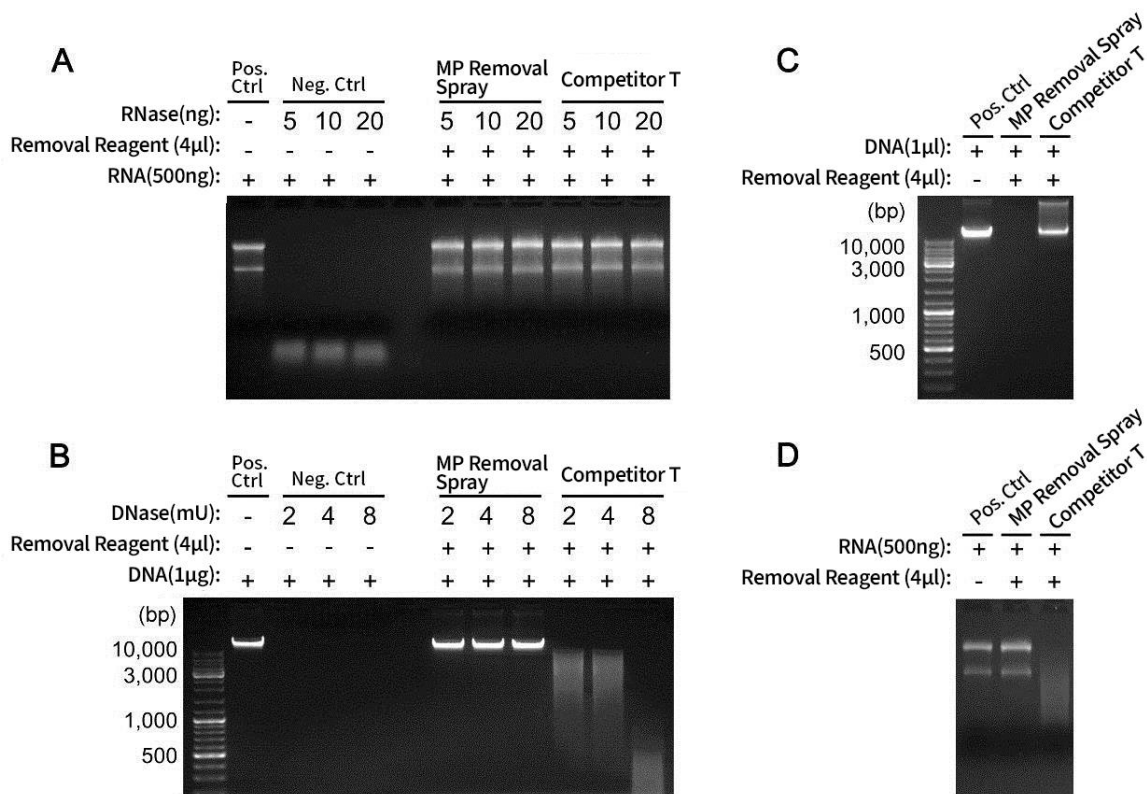


Figure 1. Performance comparison of MP Biomedicals Nuc-Off Nucleases and DNA Removal Spray and Competitor T solution in removing RNase and DNase. A. RNase elimination. Mixtures of 4μL of removal reagent and different amounts of RNase (in 1μL) were incubated at room temperature for 5 minutes; after that, 1μL RNA were added and further incubated at room temperature for 15 minutes, followed by denaturation and electrophoresis of final mixtures in agarose gel containing formaldehyde. B. DNase elimination. Mixtures of 4μL of removal reagent and different amounts of DNase (in 1μL) were incubated at room temperature for 5 minutes; after that, 1μL 10X Reaction Buffer and 1μg DNA and nuclease-free water were added to a total volume of 10μL, and further incubated at room temperature for 15 minutes, followed by agarose gel electrophoresis of final mixtures. C. Effect of Removal Reagent on DNA stability. Mixtures of 4μL of removal reagent and 1μL of genomic DNA were incubated at room temperature for 15 minutes and then analyzed by agarose gel electrophoresis. D. Effect of Removal Reagent on RNA stability. Mixtures of 4μL of removal reagent and 1μL of RNA were incubated at room temperature for 15 minutes and then denatured for formaldehyde-containing agarose gel electrophoresis. The figure shown here is for reference only, it may vary depending on different experimental conditions.

2. Storage and Stability

Store at room temperature for up to 1 year.

3. Safety Precaution

- Tighten the nozzle after each use and avoid long exposure to air.
- After using this product, it is still necessary to wear a lab coat, gloves and masks during the experiment to prevent the contamination of samples.
- When using the product with lab instruments, it should only be limited to the surface that can be wiped and cleaned. Any attempt to spray the product into the interior components, which could potentially result in damage to the instruments, is strictly

prohibited.

- ❑ This product is for research use only. Not for drug, household, or other uses.
- ❑ For your safety and health, please wear a lab coat and disposable gloves during use.

4. Protocol

1. Spray the product directly and evenly onto the surfaces of objects such as bench tops, pipettes, racks, gloves, or other instruments to be used. Allow the product to sit for 5 minutes before wiping it off with clean tissues.
2. For consumables that need to be treated with DEPC, such as centrifuge tubes and pipette tips, soak them in this product for 10-30 minutes, and then rinse with nuclease-free water.
3. It is recommended to utilize this product for cleaning the pipettors every 1-2 weeks to eliminate any nuclease and nucleic acid contamination that could potentially lead to false positive or false negative experimental results. Carefully disassemble the pipettor and clean the components that may directly interact with the air for 10-20 minutes. Alternatively, evenly spray this product onto the components and allow them to sit for 10-20 minutes. Subsequently, thoroughly rinse the components with nuclease-free water, ensure complete drying, and then reassemble them for further use.

5. Order Information

Cat. No.	Product Name	Pack Size
112461030	Nuc-Off Nucleases and DNA Removal Spray	30 mL
112461450	Nuc-Off Nucleases and DNA Removal Spray	450 mL
112461451	Nuc-Off Nucleases and DNA Removal Spray (Refill, without spray bottle)	1.8 L (450 mL x 4)

6. Related Product Information

Cat. No.	Product Name	Pack Size
112460030	Nuc-Off Nucleases Removal Spray	30 mL
112460450	Nuc-Off Nucleases Removal Spray	450 mL
112460451	Nuc-Off Nucleases Removal Spray (Refill, without spray bottle)	1.8 L (450 mL x 4)
112462030	Nuc-Off Nucleases and Nucleic Acid Removal Spray	30 mL
112462450	Nuc-Off Nucleases and Nucleic Acid Removal Spray	450 mL
112462451	Nuc-Off Nucleases and Nucleic Acid Removal Spray (Refill, without spray bottle)	1.8 L (450 mL x 4)

7. Product Use Limitation & Warranty

The products presented in this instruction manual are for research or manufacturing use only. They are not to be used as drugs or medical devices in order to diagnose, cure, mitigate, treat or prevent diseases in humans or animals, either as part of an accepted course of therapy or in experimental clinical investigation. These products are not to be used as food, food additives or general household items. Purchase of MP Biomedicals products does not grant rights to reproduce, modify, or repackage the products or any derivative thereof to third parties. MP Biomedicals makes no warranty of any kind, expressed or implied, including merchantability or fitness for any particular purpose, except that the products sold will meet our specifications at the time of delivery.

Buyer's exclusive remedy and the sole liability of MP Biomedicals hereunder shall be limited to, at our discretion, no replacement or compensation, product credits, refund of the purchase price of, or the replacement of materials that do not meet our specification. By acceptance of the product, Buyer indemnifies and holds MP Biomedicals harmless against, and assumes all liability for, the consequence of its use or misuse by the Buyer, its employees, or others, including, but not limited to, the cost of handling. Said refund or replacement is conditioned on Buyer notifying within thirty (30) days of receipt of product. Failure of Buyer to give said notice within thirty (30) days shall constitute a waiver by the Buyer of all claims hereunder with respect to said material(s).

Australia

Tel: +61 2.8824.2100
Tel: +61 1800.249.998
Email: custserv.au@mpbio.com

Austria & Germany

Tel: 0800.426.67.337
Tel: 00800.7777.9999
Email: custserv.de@mpbio.com

Belgium

Tel: 00800.7777.9999
Email: custserv.be@mpbio.com

Canada

Tel: +1 800.854.0530
Email: custserv.ca@mpbio.com

China

Tel: +86 400.150.0680
Email: custserv.cn@mpbio.com

Europe

Tel: +33 3.88.67.54.25
Tel: +33 00800.7777.9999
Email: custserv.eur@mpbio.com

France

Tel: +33 3.88.67.54.25
Email: custserv.fr@mpbio.com

India

Tel: +91 22.27636921/22/25
Email: custserv.in@mpbio.com

Italy

Tel: 00800.7777.9999
Email: custserv.it@mpbio.com

Japan

Tel: +81 3.6667.0730
Email: custserv.jp@mpbio.com

Latin America

Tel: +1 800.854.0530
Tel: +1 440.337.1200
Email: custserv.la@mpbio.com

New Zealand

Tel: +64 9.912.2460
Email: custserv.nz@mpbio.com

North America

Tel: +1 800.854.0530
Tel: +1 440.337.1200
Email: custserv.na@mpbio.com

Poland

Tel: 00800.7777.9999
Email: custserv.po@mpbio.com

Russia

Tel: +7 495 604.13.44
Email: custserv.rs@mpbio.com

Serbia

Tel: +381 11.242.1972
Email: custserv.se@mpbio.com

Singapore/ APAC

Tel: +65 6775.0008
Tel: +65 6394.7675
Email: custserv.ap@mpbio.com

South Korea

Tel: +82 2.425.5991
Email: custserv.kr@mpbio.com

Switzerland

Tel: 00800.7777.9999
Email: custserv.ch@mpbio.com

The Netherlands

Tel: 00800.7777.9999
Email: custserv.nl@mpbio.com

United Kingdom

Tel: 0800.282.474
Email: custserv.uk@mpbio.com

www.mpbio.com

