

KEEPING YOUR LAB SPOTLESS

Essential Solutions for a clean workplace

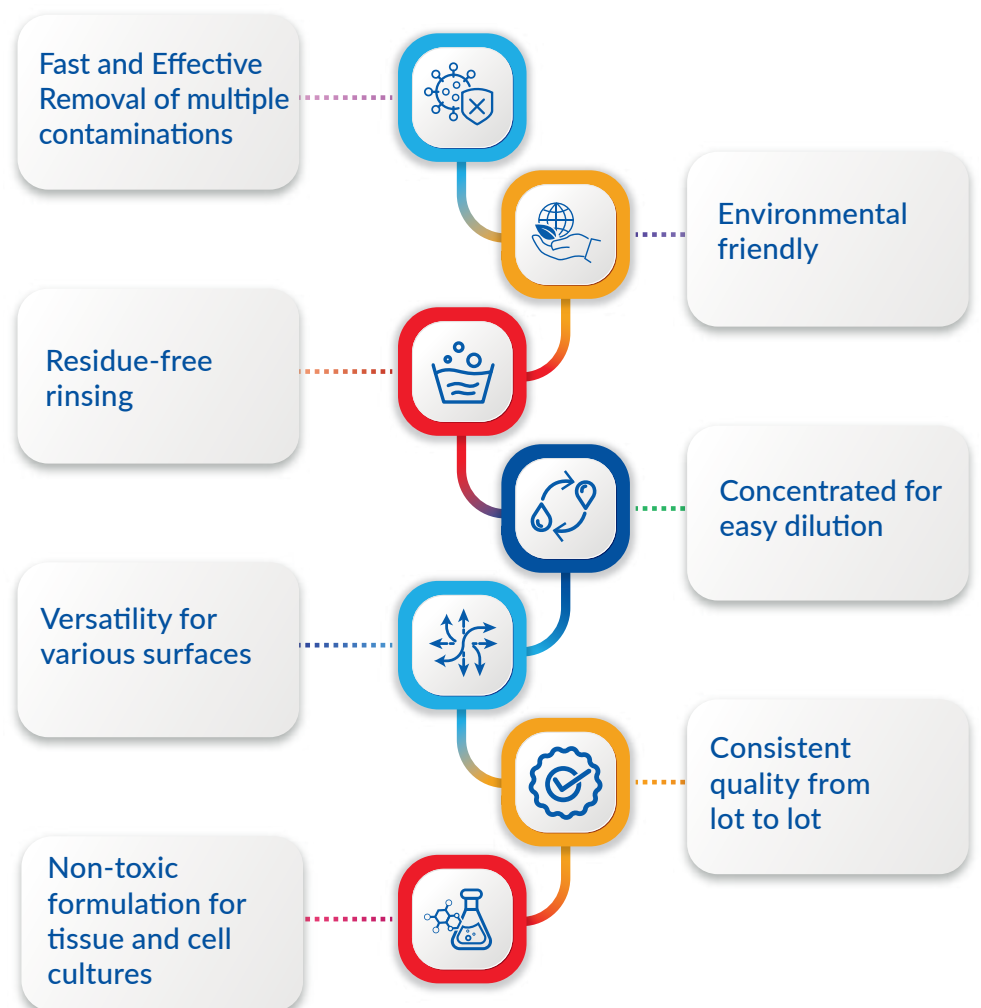


How to Choose the Ideal Laboratory Cleaning Product?

Our suite of advanced cleaning agents and antimicrobial sprays is meticulously formulated to address these challenges, ensuring the highest standards of hygiene and safety in your lab. Whether you're working in cell culture facilities, incubator rooms, or water bath setups, our products are designed to deliver exceptional performance, reliability, and peace of mind.

From mycoplasma removal agents to specialized nucleic acid cleaning sprays, each of our solutions is backed by cutting-edge science and provide you with a clean and microorganism-free environment.

MP Bio's Cleaning Solution Offer:



Nuc-Off Nucleases Removal Spray



MP Biomedicals Nuc-Off Removal Spray is a non-toxic ready-to-use solution for fast removal of RNase, DNase, DNA and RNA contamination. It can be used on 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. Nuc-Off Sprays are effective, ready-to-use solutions removes DNase, RNase, and nucleic acids without compromising the stability of DNA and RNA.

These sprays are non-toxic, non-corrosive, and non-irritating, providing a safe alternative to DEPC To use Nuc-Off Sprays, simply spray the product directly onto the surface of the object. After waiting for 5 minutes, wipe it off with clean tissues. Can be applied to a wide range of equipment, including pipettors, thermocyclers, centrifuges, benches, racks for test and centrifuge tubes.

- Offers fast and direct application, with results achievable in just 5 minutes.
- Compatible with various materials, including glassware, plastic, latex, and stainless steel.

	Function	Applications	Pack size	SKU
Nuc-Off Nucleases Removal Spray	⊕ RNase & DNase	Prevents degradation of DNA and RNA in samples. For DNA & RNA experiments	450mL	112460450
	✓ RNA & DNA		1.8L	112460451
Nuc-Off Nucleases and DNA Removal Spray	⊕ RNase, DNase and DNA	Inhibits degradation of DNA & RNA in samples, prevents DNA contamination. For qPCR experiments	450mL	112461450
	✓ RNA		1.8L	112461451
Nuc-Off Nucleases and Nucleic Acid Removal Spray	⊕ RNase, DNase, DNA & RNA	Inhibits degradation of DNA & RNA in samples, prevents DNA & RNA contamination. For qPCR or other RNA experiments. PAGE	450mL	112462450
			1.8L	112462451

Performance comparison of MP Biomedicals Nuc-Off Nucleases and DNA Removal Spray and Competitor T solution in removing RNase and DNase.

A MP Biomedicals Nuc-Off Removal Spray effectively eliminates RNase, preserving RNA integrity even at higher RNase concentrations, as shown by clear RNA bands in the gel electrophoresis results.

B MP Removal Spray demonstrates superior DNase elimination, maintaining DNA integrity at all tested DNase levels.

C MP Removal Spray does not compromise DNA stability. The gel electrophoresis results show that DNA remains intact after treatment, matching the positive control and outperforming the competitor.

D Our removal spray is gentle on RNA, maintaining its integrity without degradation. The results are comparable to the positive control, ensuring that your RNA samples are safe and stable.

▶ 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.

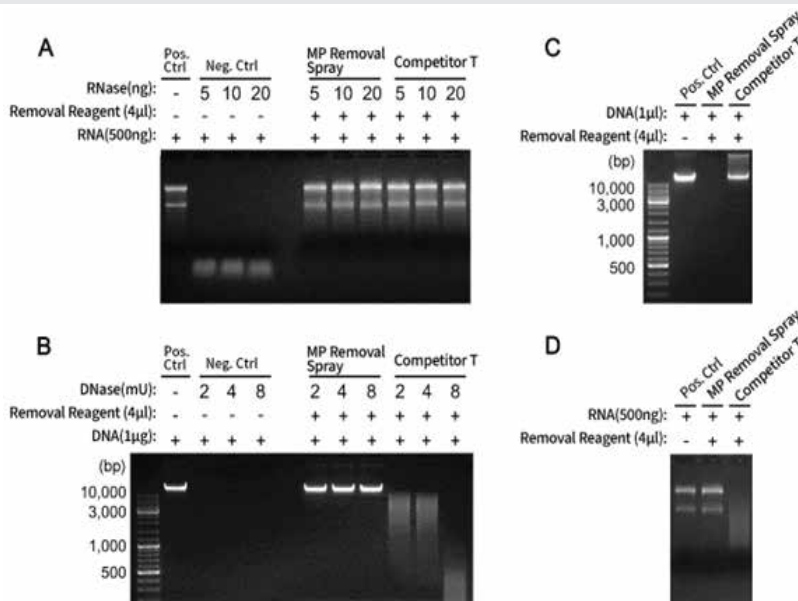


Figure 1. Performance comparison of MP Biomedicals Nuc-Off Nucleases and Nucleic Acid Removal Spray and Competitor T solution in removing RNase, DNase, RNA, and DNA. A. RNase elimination. Mixtures of 4μL of removal reagent and different amounts of RNase (in 1μL) were incubated at room temperature for 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.

LabCare

For effective and safe inhibition and elimination of viruses, bacteria, fungi, mycoplasma, and molds in any lab surfaces

LabCare Cell Culture Room Antimicrobial Spray



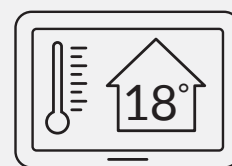
For effective and safe elimination of viruses, bacteria, fungi, mycoplasma, and molds within **cell culture rooms and laboratories**.



Product Features

- Dual ingredients and dual antibacterial mechanisms. It can efficiently and broadly inhibit and eliminate viruses, bacteria, fungi, mycoplasma, molds, and other microorganisms, with minimal risk of resistance. Ingredients of the product are **quaternary ammonium salt cationic surfactants and broad-spectrum IVD-grade isothiazolone antimicrobial agents**. The combination of these two ingredients allows the product to alter the permeability of microbial cell membranes, causing important substances within the microorganisms to leak out, thereby killing them by inhibiting their metabolism. The dual ingredient combination and dual antimicrobial mechanisms of this product provide better antimicrobial effects.
- Specifically designed for use in cell culture rooms or laboratories, quickly eliminate microbial contamination within 5-30 minutes.
- Simply spraying the product at a dosage of 5-8 mL per m³ or wiping the surfaces of cell culture room and the inhibitory effect can last for 7-10 days or more.

Storage and Stability



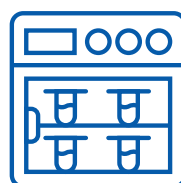
Store at room temperature in the dark, stable for one year, or at 2-8°C for three years.



Order Information

Cat. No.	Product Name	Pack Size
093051049	LabCare Cell Culture Room Antimicrobial Spray	100 mL
093051054	LabCare Cell Culture Room Antimicrobial Spray	450 mL
093051054x4	LabCare Cell Culture Room Antimicrobial Spray (Refill, without spray bottle)	1.8L (450 mLx4)

LabCare Incubator Antimicrobial Spray

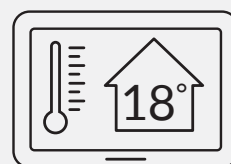


For effective and safe inhibition and elimination of **viruses, bacteria, fungi, mycoplasma, and molds** in incubators, biological safety cabinets, and ultra - clean benches.

Product Features

- Efficiently and broadly inhibit and eliminate viruses, bacteria, fungi, mycoplasma, molds, and other microorganisms, with minimal risk of resistance. The main ingredients of the product are quaternary ammonium salt cationic surfactants and broad-spectrum IVD-grade isothiazolone antimicrobial agents. The combination of these two ingredients allows the product to alter the permeability of microbial cell membranes, causing important substances within the microorganisms to leak out, thereby killing them by inhibiting their metabolism.
- Specifically designed for use in CO₂ incubators, biological safety cabinets, ultra-clean benches, eliminate microbial contamination within 10-30 minutes. It has good water solubility and can be mixed with water at any ratio. With minimal toxicity, no irritant or corrosive properties, and good biodegradability.
- Easy to use and long-lasting effects. Simply spraying or wiping an appropriate amount of this product on the surfaces of incubators, biological safety cabinets, ultra-clean benches. The inhibitory effect can last for 7-10 days or more.

Storage and Stability



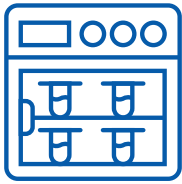
Store at room temperature in the dark, stable for one year, or at 2-8°C for three years.



Order Information

Cat. No.	Product Name	Pack Size
093051149	LabCare Incubator Antimicrobial Spray	100 mL
093051154	LabCare Incubator Antimicrobial Spray	450 mL
093051154x4	LabCare Incubator Antimicrobial Spray (Refill, without spray bottle)	1.8L (450 mLx4)

LabCare Incubator Water Disinfectant Solution



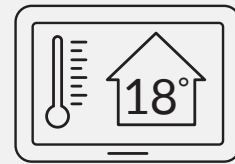
For maintaining water cleanliness and preventing cross-contamination within incubators.



Product Features

- Dual ingredients and dual antibacterial mechanisms. Inhibit and eliminate the growth of bacteria, fungi, mycoplasma, algae and other microorganisms. Components of this product are quaternary ammonium salts cationic surfactants and broadspectrum IVD level isothiazolinones antibacterial agents
- Fast onset time, strong effect, wide pH compatibility, suitable for microbial inhibition in water tray
- A ratio of approximately 1:500 effectively inhibits and eliminates the growth of bacteria, fungi, and other microorganisms for up to 7-10 days.

Storage and Stability



Store at room temperature in the dark for up to 3 years.

Order Information

Cat. No.	Product Name	Pack Size
093051249	LabCare Incubator Water Disinfectant Solution	100 mL
093051254	LabCare Incubator Water Disinfectant Solution	450 mL



LabCare Water Bath Disinfectant Solution



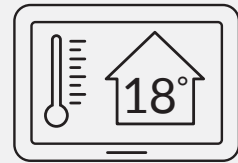
For inhibiting and removing microorganisms from water in **water baths or incubator tanks.**



Product Features

- Inhibit and eliminate the growth of bacteria, fungi, mycoplasma, algae and other microorganisms at a certain concentration with high efficiency and broad spectrum, and rarely causes drug resistance. The quaternary ammonium salts cationic surfactants and broad-spectrum IVD level isothiazolinones antibacterial agents. The combination of these two components not only changes the permeability of microbial cell membranes to kill microorganisms, but also inhibits key metabolic enzymes in microorganism to promote their death.
- Highly efficient, stable, low toxic, eco-friendly and non-corrosive. The aqueous solution is stable, involatile, non-irritating, non-corrosive, and nonpolluting to environment.
- Easy to use and long-lasting effects. Simply adding this product to the water in water baths in a ratio of approximately 1:500 will effectively inhibit and eliminate the growth of bacteria, fungi and other microorganisms for up to 7-10 days.

Storage and Stability



Store at room temperature in the dark for up to 3 years.

Order Information

Cat. No.	Product Name	Pack Size
093051349	LabCare Water Bath Disinfectant Solution	100 mL
093051354	LabCare Water Bath Disinfectant Solution	450 mL





7X Cleaning Solution

- Critical cleaning for most surfaces and materials
- Maximum efficacy with no residues
- Lot-to-lot consistency
- Verification with published papers
- Non-Toxin and Environment-friendly

Discover the Power of 7X Cleaning Solutions

7X & ES 7X, is specifically designed for the safe and effective cleaning of laboratory instruments and glassware.



Instant Solubility:
Completely soluble
in water at any
concentration



**Minimizes
chemical
contamination**



pH Neutral:
Compatible with
alkalis and acids,
maintaining
near-neutral pH



**Superior
Wetting
Agent**



**Quick
Draining**











**Powerful
Dispersing
Agents**

- Elevate your laboratory cleaning with 7X solutions - where safety, efficacy, and environmental responsibility meet.

Which 7X™ should i use?

	7X Cleaning Solution	ES 7X Cleaning Solution
What soil needs to be cleaned?		
Bioaccumulation, proteins, oils, blood, tissue, pigments, fermentation residues, gels, starches, etc		
	✓	✓
What surface needs to be cleaned?		
Stainless steel	✓	✓
Glass	✓	✓
PTFE and other plastics	✓	✓
Porcelain/ ceramic	✓	✓
Which cleaning method can be used?		
Manual	✓	✓
Soak	✓	✓
Ultrasonic	✓	✓
Which detergent is phosphate free (i.e. eco-friendly)?		
Phosphate free	✓	✓
What is the pH range and type of 7X?		
pH range	6.0-7.5	6.5-7.5
Detergent type	Anionic	Anionic
Foam level	Regular	Regular

Comparison of all Key Products

Product & Catalogue ID	Size	Usage Setting	Function	Prerequisite	Applications
Nuc-Off Nucleases Removal Spray					
 112460450 112460451	450 mL, 1.8 L	Bench tops Pipettes Racks Gloves Other instruments	Remove RNase and DNase without affecting RNA and DNA	Ready to use solution	DNA and RNA-related experiments. It prevents the degradation of DNA and RNA in samples.
Nuc-Off Nucleases and DNA Removal Spray					
 112461450 112461451	450 mL, 1.8 L	Bench tops Pipettes Racks Gloves Other instruments	Remove RNase, DNase and DNA without affecting RNA	Ready to use solution	Mainly for qPCR. It not only inhibits the degradation of DNA and RNA in samples, but also prevents the contamination by other DNA in surroundings.
Nuc-Off Nucleases and Nucleic Acid Removal Spray					
 112462450 112462451	450 mL, 1.8 L	Bench tops Pipettes Racks Gloves Other instruments	Remove RNase, DNase, RNA and DNA	Ready to use solution	qPCR or other experiments that must avoid RNA contamination. It not only inhibits the degradation of DNA and RNA in samples, but also prevents the contamination by other DNA and RNA in surroundings.
LabCare Cell Culture Room Antimicrobial Spray					
 093051049 093051053 093051053X4	10 mL/ 45 mL/ 1.8 L	Cell Culture Room	Elimination of viruses, bacteria, fungi, mycoplasma, and molds mainly in cell culture rooms	Ready to use solution	Alters microbial cell membrane permeability and inhibits key enzymes in microbial metabolism
LabCare Incubator Antimicrobial Spray					
 093051149 093051153 093051153X4	10 mL/ 45 mL/ 1.8 L	Incubator	Inhibition and elimination of viruses, bacteria, fungi, mycoplasma, and molds in incubators, biological safety cabinets, and ultra-clean benches	Ready to use solution	Alters microbial cell membrane permeability and inhibits key enzymes in microbial metabolism
LabCare Incubator Water Disinfectant Solution					
 093051349 093051254	100 mL /500 mL	Incubator water	Maintaining water cleanliness and preventing cross-contamination within incubators	1:500	Changes permeability of microbial cell membranes and inhibits key metabolic enzymes
LabCare Water Bath Disinfectant Solution					
 093051349 093051354	100 mL /500 mL	Water Bath	Inhibiting and removing microorganisms from water in water baths.	1:500	Changes permeability of microbial cell membranes and inhibits key metabolic enzymes
MycO-Out Mycoplasma Removal Spray					
 093050853 093050853X4	450 mL/ 1.8 L	Mycoplasma sensitive areas cell culture room Biosafety cabinets, PCR...)	Targets mycoplasma species	Ready to use solution	Peptide surfactant to remove mycoplasma containing no toxicity and is biodegradable.










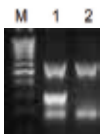

Comparison of all Key Products

Monitoring Cell Contamination Status Through Regular Mycoplasma Testing

Mycoplasma Detection Kit By detection method

Mycoplasma detection kits come in various products depending on the measurement method, allowing you to choose the appropriate method considering factors such as detection sensitivity, experimental time, measurement method, and required equipment.



Method	BEST LAMP method	PCRmethod		Luciferase method
Product Name	Myco-Visible Mycoplasma LAMP Detection Kit 	Myco-Sniff™ Mycoplasma PCR Detection kit 	Myco-Sniff-Valid™ Mycoplasma PCR Detection kit(1) 	Myco-Sniff-Rapid™ Mycoplasma Luciferase Detection kit 
Qualitative/ Name	Qualitative	Semi-Quantitative	Semi-Quantitative	Quantitative
Time	45min	~3 hrs	~3 hrs	20min
Sensitivity	Very high (~10 copies/10 fg)	Very high (~20 CFU/ml)	Very high (~10 CFU/ml)	High
Specificity	Very high	Very high	Very high	High
Detection Equipment	Equipment-free (Visual Inspection) 	PCRmachine 	PCRmachine 	Luminometer 
Result pattern	 Positive Negative	 M 1 2 • Sample control • Mycoplasma • Internal control Positive Negative	 M 1 2 Mycoplasma Internal control Positive Negative	Ratio (Reading B/Reading A) B/A ≤ 1: Positive B/A ≤ 0.8: Negative 0.8 < B/A < 1: Retest
Cat#(Size)	Cat# 093050601 (40Tests)	Cat# 093050201 (48 Tests)	Cat# 093050301 (48 Tests)	Cat# 093050401 (25 Tests) Cat# 093050402 (50 Tests)

SKU No.	Product Name	Pack Size
093050044	MYCOPLASMA REMOVAL AGENT	5 ml
093050853	Myco-Out Mycoplasma Removal Spray	450 ml
093050301	Myco-Sniff-Valid Mycoplasma PCR Detection Kit	1 kit - 48 Test
093050201	Myco-Sniff Mycoplasma PCR Detection Kit	1 kit - 48 Test
093050601	Myco-Visible Mycoplasma LAMP Detection Kit	40Tests
09305060S 093050601	Myco-Visible Mycoplasma Rapid Detection Kit	5 Tests 24 Tests

Workspace Area

Different areas may have varying degrees of contamination or require specific cleaning protocols. For instance, benchtops and countertops might accumulate spills, residues, or biological contaminants, necessitating a more potent cleaning solution. In contrast, delicate instruments or sensitive equipment might require a gentler, non-corrosive cleaner to avoid damage.

Material Compatibility

Compatibility between the cleaning product and the surface or equipment being cleaned is crucial to prevent damage. Many laboratory surfaces are made of materials like stainless steel, glass, or plastics, each requiring different cleaning agents. For example, while a strong acidic cleaner might effectively remove mineral deposits from glassware, it could corrode metal surfaces. Similarly, using a harsh solvent on plastic equipment may cause it to degrade or become brittle over time.

Safety Considerations

Safety should always be a top priority when choosing a laboratory cleaning product. This includes not only the safety of lab personnel but also environmental considerations. Ideally, the detergent should be non-toxic, non-corrosive, and environmentally friendly. This reduces the risk of accidents or exposure to harmful chemicals for laboratory staff while also minimizing the impact on the environment.



ISO 13485: 2016



ISO 9001:2015



WHO GMP



Media



Buffer



Antibiotics Solution



Custom Solution/ Reagents



Rapid Tests

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