



# EFFECTIVE DISINFECTION

## A CORE PILLAR OF CLEANROOM CONTAMINATION CONTROL

Thorough disinfection is fundamental to maintaining contamination control in cleanrooms. According to EU GMP Annex 1 and other leading technical standards, cleanrooms must be cleaned and disinfected using a documented and validated programme. Crucially, disinfection must always follow a cleaning step to remove surface contamination, ensuring the disinfectant can act effectively.

EU GMP Annex 1 also requires the use of multiple disinfectants with different modes of action to enhance efficacy against a broad range of microorganisms. Additionally, it mandates that routine disinfection be supplemented with the periodic use of a sporicidal agent. In addition, the entire disinfection programme must be regularly monitored to confirm its ongoing effectiveness.

# MICRONCLEAN'S FOUR-PRODUCT CLEANING AND ROTATIONAL DISINFECTION SYSTEMS

To meet these exacting standards, Micronclean can supply a four-product mopping system fully aligned with Annex 1 requirements comprising:

**Delta** - Neutral detergent formulated to effectively remove surface contamination.

**Alpha** - A broad-spectrum disinfectant.

**Beta** - A second broad-spectrum disinfectant with a different mode of action from Alpha.

**Zyceine** - A powerful sporicide for periodic use.

This four-step rotation provides a cost-effective, compliant solution while minimising the risks associated with repeated use of aggressive chemicals. Zyceine, a highly effective sporicide based on hypochlorous acid, is the most aggressive agent in the rotation. Excessive use of Zyceine may increase the risk of corrosion, potentially affecting equipment integrity and, if not adequately controlled, may pose occupational exposure risks.

## HOW TO USE?



With our mopping systems, we would recommend the following regime to ensure the maximum benefit from our specially formulated detergent and disinfectants.

### Week 1 | Day 1

Clean the floor using Delta Mops followed by the use of a Sporicide Mop following the manufacturer's instruction.

### Week 1 | Day 2-5

Clean the floor by using Delta Mops followed by disinfection using Alpha Mops.

### Weeks 2 to 4 | Every Day

As in Week 1 Days 2-5, clean the floor by using Delta Mops followed by disinfection using Alpha Mops.

### Week 5 | Every Day

As in the previous week, clean the floor using Delta Mops but then use a Beta Mop as the rotational disinfection step to prevent the potential buildup of resistance within your environment.

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# MICRONCLEAN'S THREE-PRODUCT CLEANING AND ROTATIONAL DISINFECTION SYSTEMS

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## ALTERNATIVE ROTATION OPTION FOR LESS STRINGENT ENVIRONMENTS

For environments where a less intensive programme is appropriate, Micronclean also supplies a proven three-product cleaning and rotational disinfection system that has delivered effective results in cleanrooms for many years.

**Delta** - Neutral detergent formulated to effectively remove surface contamination.

**Alpha** - A broad-spectrum disinfectant.

**Beta** - A second broad-spectrum disinfectant with a different mode of action from Alpha.

## HOW TO USE?



With our mopping systems, we would recommend the following regime to ensure the maximum benefit from our specially formulated detergent and disinfectants.

### Week 1 | Every Day

Clean the floor by using Delta Mops followed by disinfection using Alpha Mops.

### Weeks 2 to 4 | Every Day

As in Week 1 clean the floor by using Delta Mops followed by disinfection using Alpha Mops.

### Week 5 | Every Day

As in the previous week clean the floor using Delta Mops but then use a Beta Mop as the rotational disinfection step to prevent the potential buildup of resistance within your environment.

## TESTING, VALIDATION AND MICRONCLEAN PRODUCT RANGE



### TESTING AND VALIDATION

Please note, that regardless of the disinfection rotation selected, it is essential that the system is validated in your cleanroom and that the environmental performance is continuously monitored to ensure compliance and efficacy.

### MICRONCLEAN PRODUCT RANGE

If you sign up to any of the Micronclean Laundered Mop rotations we will automatically send you the correct number of mops and pouches for the size of your cleanroom in the correct sequence.

In this way you will always have what you need on hand without the need for large storage areas and massive amounts of product sorting prior to use.

Product Code	Description	Size	Pack Qty
1W1	Compact System - Pre-Saturated Mop for Alpha and Beta Sterile	One Size	1
1VA	Compact System - Pre-Saturated Mop for Delta Sterile	One Size	1
1DA	Compact System - Dry Mop Sterile	One Size	1
ZSZY61200	Zyceine Fluid Pouches	200ml	15 x 200ml
1Q1	Large Scale System - Pre-Saturated Mop for Alpha and Beta Sterile	One Size	5 or 10
1Q3	Large Scale System - Pre-Saturated Mop for Delta Sterile	One Size	5 or 10
1Q2	Large Scale Service - Dry Mop Sterile One Size	One Size	5 or 10



ISO Class 4 Cleanroom Laundry. Micronclean facility for laundering and processing critical mops

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