

What is Endurocide?



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ANTIMICROBIAL & SPORICIDAL TEXTILE


endurocide.com


Originally developed as the world's first antimicrobial and sporicidal disposable hospital curtain, with an effectiveness of up to 2 years*, we are proud to now offer this unique product to all industries in 3 partition and screen solutions.


How Endurocide works


Advanced Patented Infection Prevention Technology


Unlike traditional polyester fabrics or untreated fabrics that **can store bacteria**, Endurocide® fabrics are impregnated with a patented liquid formulation that **traps and kills pathogens** on the surface of the fabric, helping to prevent the partition from becoming a source of pathogenic transmission.

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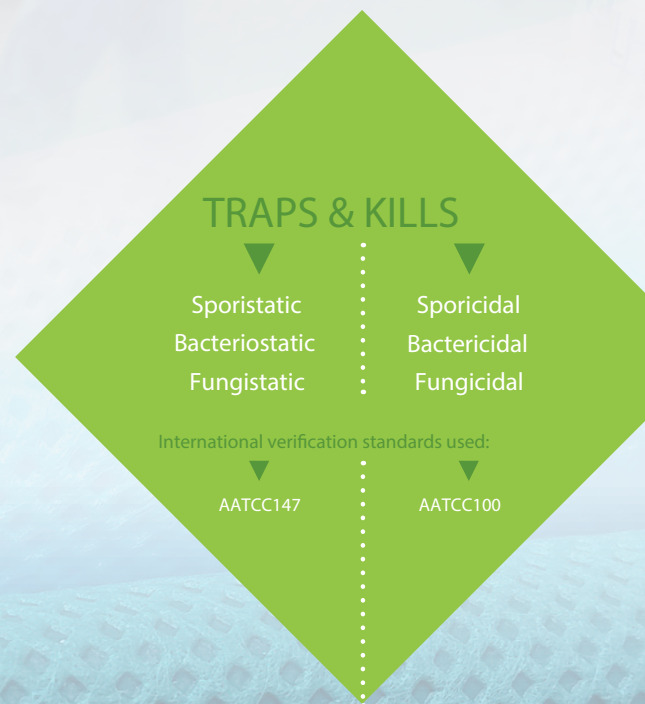
1 Hand touches contaminated surface and picks up pathogens
- 

2 Contaminated hand touches an Endurocide® Antimicrobial & Sporicidal Fabric - pathogens may be transferred to the curtain surface
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3 The Endurocide® Fabric is **SPORISTATIC** - pathogens are trapped and unable to escape
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4 The Endurocide® Fabric is also **SPORICIDAL** - pathogens are killed
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5 The Endurocide® Fabric prevents potential retransmission of pathogens to other people or surfaces - breaking the chain of infection



* Endurocide® Antimicrobial & Sporicidal Curtains have been independently tested to remain antimicrobially and sporicidally effective for up to two years in-situ. However, actual length of curtain use will depend on individual hospital practices and the risk of the curtain being soiled from items such as blood, urine and general spills. Curtains should be replaced when visibly soiled. Timescales are given as guidelines only.

Testing and Trials



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To validate our claims, Endurocide® Antimicrobial & Sporicidal Curtains have been independently tested in the laboratory to international standards. In addition, the fabric has undergone successful peer review trials in the UK, Australia, South Africa, South America and the Middle East.

Endurocide® Antimicrobial & Sporicidal Hospital Curtains have been tested to international standards against:

- **Spores**
- **Bacteria**
- **Fungi**
- **Mycobacteria**
- **H1N1 (Swine Flu)**



Endurocide® Antimicrobial & Sporicidal Fabrics are tested and proven to be effective against the following pathogens:

Spores

- *C. difficile*

Mycobacteria

- Mycobacteria tuberculosis

Fungi

- Aspergillus niger
- Candida albicans
- Candida auris

Viruses*

- H1N1 Influenza A Virus (Swine Flu)
- Measles

*Tested against liquid

Bacteria

- Acinetobacter baumannii
- E.hirae
- E.coli
- Extended-Spectrum Beta-Lactamase (ESBL) E.coli
- Extended-Spectrum Beta-Lactamase (ESBL) Klebsiella pneumoniae
- Klebsiella pneumoniae
- Methicillin-resistant Staphylococcus aureus
- Pseudomonas aeruginosa
- Salmonella choleraesuis
- Salmonella typhimurium
- Vancomycin-resistant Enterococcus faecalis



Independent Peer Review 2-year Trial

1 American Journal of Infection Control 24 month trial

In 2016, a report was published in the American Journal of Infection Control testing the antibacterial efficacy of Endurocide® Antimicrobial & Sporicidal Curtains 24 months after installation.

Organised by one of Australia's largest public health services, every six months over a period of twenty-four months Zone of Inhibition and Contact Inhibition testing was carried out against a range of multiresistant microorganisms, including:

- Gram positive bacteria (MRSA, VRE E. faecium)
- Gram negative bacteria (Pseudomonas aeruginosa, ESBL E.coli)
- Fungi (Candida albicans)
- Spores (Clostridium difficile)



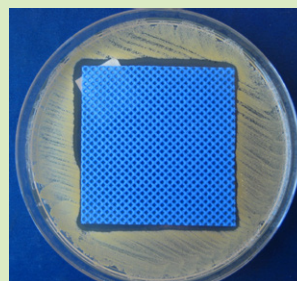
Excellent results were achieved... when tested at baseline, 6, 12, 18 and 24 months .

There were cost benefits for replacing standard fabric curtains with Endurocide® Sporicidal and Antimicrobial Curtains... cutting the overall cost by more than 50%*



*The cost savings were based on comparing the use of Endurocide® Antimicrobial & Sporicidal Curtains with traditional cotton cubicle curtains, not only in regards to the initial purchasing costs but to the saving of labour and laundering over two years

A



B

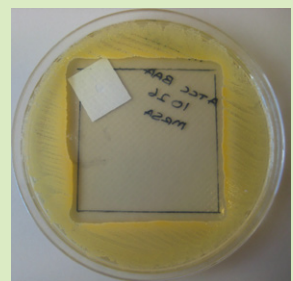


Fig 1. Images from 24-month testing for: (A) methicillin-resistant Staphylococcus aureus and vancomycin-resistant Enterococcus faecium (zone of inhibition) (B) Methicillin-Resistant Staphylococcus aureus (Contact inhibition)

Images courtesy of Despina Kotsanas ; Senior Scientist ; Monash Infectious Diseases

Benefits and Advantages

Endurocide Antimicrobial & Sporicidal Curtains® significantly reduce the risk of hospital acquired infections (HAIs) being transferred via fabrics by care workers, patients and visitors.



PEER REVIEWED
fully patented



OVERALL SAVINGS
over 2 years



REDUCING RISK
& staff workloads



NO LAUNDERING
retaining fire retardancy

What about COVID-19?

We have been asked if Endurocide Sporicidal Curtains are effective against Coronavirus.

Endurocide fabrics **have not, at time of writing**, been tested against Covid 19, due to the high level of security surrounding viable samples. However, Endurocide Sporicidal liquid has been tested and proven to be effective against H1N1 Influenza A Virus (Swine Flu), screen tested according to International virus standard EN 14476 with >99.9% kill rate in 60 seconds.

Like the Coronavirus, H1N1 Swine Flu is a zoonotic enveloped virus. The biocidal action of our sporicide/biocide against H1N1 damages the virus's cell by puncturing its envelope, causing it to leak and rendering the virus unable to replicate. Once a virus is unable to replicate, it cannot spread and so is no longer a threat.

It is generally accepted that if a product is proven to be active against one enveloped virus there is a high probability that the product will be able to kill similar viruses. As H1N1 Swine Flu is a similar biological structure to Coronavirus, the biocidal action of our Endurocide Sporicidal Curtains is likely to work in a similar way against Coronavirus and therefore to be effective against it.

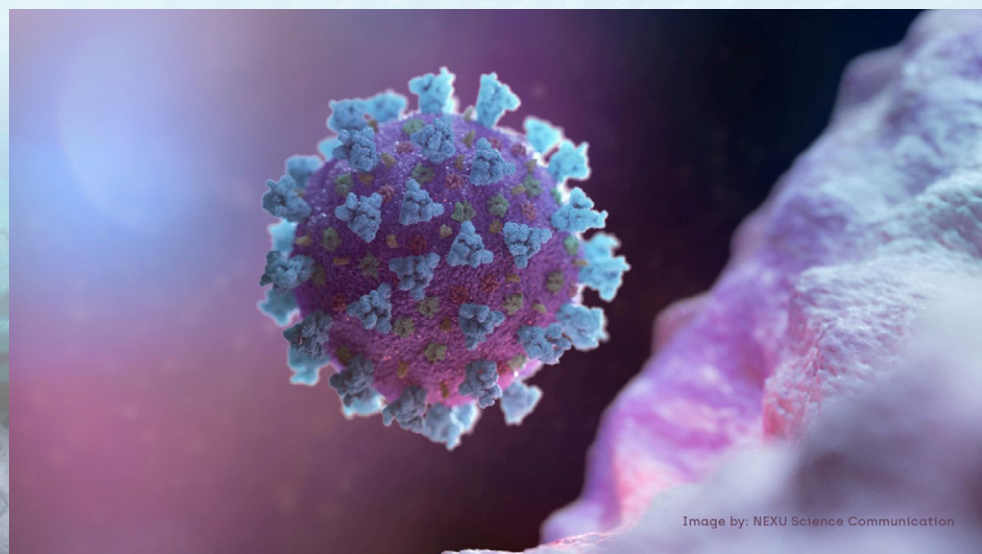


Image by: NEXU Science Communication