



CS Airpore™

Antimicrobial Medical Adhesive Tape

I3 BioMedical Inc.

A critical technological advance in the field of medical adhesive tape : TrioMed incorporates a powerful antimicrobial to control microbiological contamination (bacteria, viruses , spores)

Advantages of the TrioMed Antimicrobial Medical Adhesive Tape

- **Proven to kill at least 99.99%** of Staphylococcus aureus MRSA, Enterococcus faecalis VRE, Klebsiella Pneumoniae, Pseudomonas aeruginosa, Escherichia coli, Acinetobacter baumannii, and Influenza A H1N1
- **Provides strong and reliable fixation** comes in rolls, easy to cut and allows for securement of dressings, tubings and catheters.
- **Non- cytotoxic and non-irritating**
- **NO Latex**
- **Comfortable and flexible non-woven**

Study comparing the contamination of commercially available tape versus TrioMed tape after only 12 hours on a patient:



* Bacterial colonization on petri dish
Commercially available Surgical Tape

VS



* NO colonization on petri dish
TrioMed Antimicrobial Medical Adhesive Tape

Conclusion: As evidenced by the pictures above, the commercially available tape is microbiologically contaminated, while the TrioMed Antimicrobial Tape maintained its microbiological integrity.

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Neutralizes 99.99% of harmful pathogens on contact

The table below displays antimicrobial efficacy data obtained with the TrioMed device.

Microorganism	S. aureus MRSA	E. faecalis VRE	K. pneumoniae	P.aeruginosa	E.Coli	A. baumannii	Influenza A/H1N1
Microbial Class	Resistant Gram (+) Bacteria	Resistant Gram (+) Bacteria	Gram (+) Bacteria	Gram (-) Bacteria	Gram (-) Bacteria	Gram (-) Bacteria	Animal Virus
Percent Reduction *	> 99.99%	> 99.99%	> 99.99%	> 99.99%	> 99.99%	> 99.99%	>99.99%

*Antimicrobial testing was performed according to AATCC 100 Standard Test Method using 5-minute exposure times. Results expressed as greater than (>) 99.99% represent the detection limit of the method meaning that no live microorganisms were detected following exposure to the TrioMed tape.

According to a University of Toronto study published in the journal of General Internal Medicine¹, 74% of adhesive tape specimens collected in a teaching hospital were colonized by pathogenic bacteria. Berkowitz et al.² revealed that rolls of adhesive tape used in an intensive care unit were contaminated with pathogenic bacteria including *Staphylococcus aureus*, *Pseudomonas aeruginosa* and some *Enterobacteria*.

An Australian Study³ has shown that 52% of partially-used rolls of tape taken from three hospitals contained harmful antibiotic-resistant superbugs such as MRSA and VRE.

An American study (Cady & Al)⁴ demonstrated that 58% of medical tapes used in hospital environments were contaminated.

The "Federal Register", published by the US Government cites : "Medical Adhesive Tape cannot be decontaminated and can be a source of contamination for health professionals and patients."

Adhesive Tapes As Potential Source of Hospital Infections

All Scientific and clinical studies indicates that medical & surgical tapes commonly used in healthcare settings are contaminated with pathogenic bacteria and may serve as a significant source of infection.

The **TrioMed** technology incorporates a broad-spectrum and powerful Tri-Iodide antimicrobial engineered to address this infection risk.

The **TrioMed** Antimicrobial Medical Adhesive Tape will effectively kill harmful contaminants and is the only existing solution to stop this widespread contamination.

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Literature:

¹ Redelmeier, D. A., Livesley, N. J. *Adhesive Tape and Intravascular-Catheter-Associated Infections. J. Gen. Intern. Med., 1999; 14:373-375.*

² Berkowitz, D. M., Lee, W., Pazin, G. J., Ho, M. *Adhesive Tape: Potential Source of Nosocomial Bacteria. Appl. Microbiol., 1974; 28:651-654*

³ Harris, P. N. A., Ashhurst-Smith, C., Berenger, S. J., Shoobert, A., Ferguson, J. K. *Adhesive Tape in the Health Care Setting: Another High-Risk Fomite? Med. J. Australia, 2012; 196:34.*

⁴ Cady, M, DO., Gross, L. MD., Lee, N, MD., *IV Tape: A Potential Vector for Infection. J.APSF, 2011*