

MedAphex™

Serious wounds require quick action



Deep wounds require fast treatment. Infection can take hold in a matter of minutes, maybe even seconds. As first responders and care providers understand, you'll want to be able to deal with lacerations, sores, and scrapes quickly, and without causing pain.

**Non-necrotizing
Non-dermatropic
Biocidal Protection lasts for Hours**

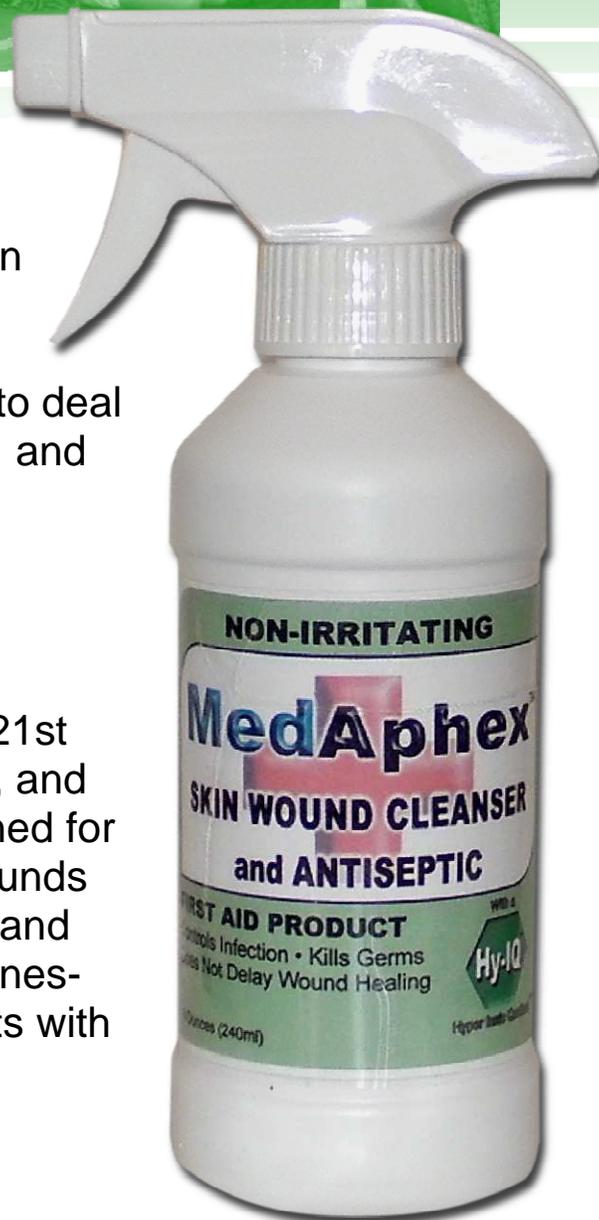
MedAphex™ Clinical Wound Wash uses 21st Century technology to clean the open wound, and sanitize the exposed area in seconds. Designed for military field use, but just as effective with wounds found everyday by first responders, nurses and Moms, **MedAphex** doesn't rely on a topical anesthetic, either. The revolutionary formula reacts with the germs, not the skin.

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MedAphex™ Skin Wound Cleanser and Antiseptic with a Hy-IQ™

When you apply a product that has a Hy-IQ™ to an infected surface, you are able to electrochemically alter the structure of the germ. The overwhelming protonic charge of the sanitizer forces the electrically polarized proteins in the cell wall to re-align themselves, thus opening a door into the interior of the microbes.

As a biocidal enhancer, no other product can deliver this kind of electromechanical power, turning good biocides into great biocides, while severely decreasing the challenge of resistivity.

Hy-IQ™ stands for "Hyper Ionic Quotient". It is a measurement of the vast quantity of protons in the Aphex products, and these protons give those products their effectiveness. By clearly communicating this with our trademark "Hy-IQ", we have made this information quick and easy to understand.

Hy-IQ™ is not an ingredient, but rather a distinctive, measurable property of products that have ProtAphex™ in their chemical composition. The IQ of the product, or Ionic Quotient, determines just how helpful our formulation will be in assisting the active ingredients to do their job.

Treatment	Average number of recovered <i>Clostridium difficile</i>	Percent Reduction
Untreated Control (initial)***	3.3×10^3	Not Applicable
Trial 1	<1.0**	>99.97%
Trial 2	<1.0	>99.97%
Trial 3	<1.0	>99.97%
Trial 4	<1.0	>99.97%
Trial 5	<1.0	>99.97%

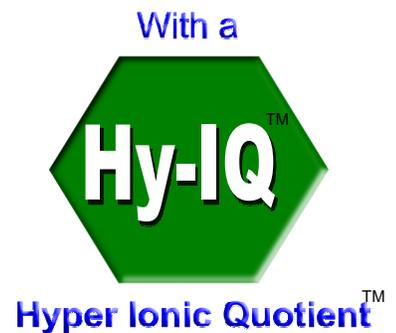


Table 1. The efficacy of MedAphex Cleanser with Hy-IQ Sanitizer on the inactivation of Influenza A (H1N1; ATCC VR-1469) during a 3 minute contact time.

Treatment	Influenza A Average mpn/ml*
Untreated (Negative Control)	3.1×10^4
Multi-Purpose Solution with Hy-IQ	<2.2
Percent Reduction	>99.993 %

*Data represents an average of three trials for each test point. Most Probable Number (MPN) of Influenza A virus was enumerated using EPA ICR comparable Methodology (EPA 600/R-95/178, 1998). For enumeration, aliquots were inoculated on freshly prepared monolayers of MDCK (CCL-34) cells and CPE was checked during a 7 day incubation period. Cells were incubated at 35°C in a 5% CO₂ atmosphere.

Treatment	Microorganism (cfu/ml)		
	MRSA	<i>E. coli</i>	<i>S. enterica</i>
Untreated Control (initial)	1.0×10^6	9.3×10^5	1.1×10^6
MedAphex Cleanser with Hy-IQ (3 min contact)	<0.5	<0.5	<0.5
Log ₁₀ Reduction	>6 log ₁₀	>6 log ₁₀	>6 log ₁₀

This product is manufactured according to FDA Tentative Final Monograph (1974, 1978, 1991, 1994, 2002). All testing is performed by an independent registered laboratory, according to test methods described in AOAC Official Method 961.02 (Germicidal Spray Products as Disinfectants), ASTM E 1053-97 (Standard Test Method for Efficacy of Virucidal Agents Intended for Inanimate Surfaces), and from ASTM E2111-00 (Standard Quantitative Carrier Test Method to Evaluate the Bactericidal, Fungicidal, Mycobactericidal and Sporocidal Potencies of Liquid Chemical Germicides). The FDA does not specify testing protocols for this product. Copies of full reports are available upon request.

