

# DAKIN'S

## Reliable Wound Care Solutions



# DAKIN'S

# Wound Care Products

**We help healthcare providers have confidence in treating even the most difficult wounds or sores—so their patients can heal.**

Wound management isn't always straightforward. That's why we've developed a range of products to help healthcare providers treat a patient's wound during the recovery stages. We offer affordable wound care solutions in varying formulations, so providers can achieve the ideal balance of bactericidal activity and cytotoxicity to help their patients heal.



**Non-irritating,  
non-sensitizing**



**Effective against  
MRSA, VRE and  
biofilm-forming  
bacteria**



**Useful in treating  
both acute and  
chronic, hard-to-  
heal wounds**



**2-year shelf life,  
even after opening**

## **Quick Links:**

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# Product Comparison

**Affordable wound care solutions for every use case, in varying strengths and formulations**

**Our Sodium Hypochlorite solution comes in four concentrations.**

All four concentrations are sold as drug products; however the lowest two concentrations are also sold as medical devices. Selling our wound care solution under both classifications allows purchasing teams the flexibility to work within existing budget categories and select whichever option works best for their specific situation.

	(0.0125%)	(0.125%)	(0.25%)	(0.5%)
<b>Sold as a medical device</b>	<b>Dakin's Wound Cleanser</b>	<b>Dakin's Wound Cleanser Pro</b>		
<b>Sold as an OTC drug product</b>	<b>Di-Dak-Sol</b> <i>"Diluted Dakin's Solution"</i>	<b>Dakin's Quarter Strength</b>	<b>Dakin's Half Strength</b>	<b>Dakin's Full Strength</b>
<b>Non-Cytotoxic</b>	✓	✓		



# Effectiveness and Safety



## Antimicrobial Effectiveness

Our weakest formulations\* have been shown to kill at least 99.99999% of MRSA and VRE\*\* after only 30 seconds.

\*Dakin's Wound Cleanser or Di-Dak-Sol are the least potent formulations we manufacture. Both are Sodium Hypochlorite 0.0125%. Dakin's full strength, which is 40 times more concentrated.

\*\*At the initial concentration of  $1.8 \times 10^7$  or higher

## Benefits of Dakin's Solution

- Non-irritating
- Non-sensitizing
- Easy disposal
- Useful in treating both hard to heal wounds (chronic) and short term wounds (acute)
  - Treats ulcers, diabetic wounds, burns, and pre- and post- surgical sites
  - Useful in wound debridement, wet-to-moist dressing and washing wounds
- No systemic side effects
- No antibiotics
- Effective against wound pathogens:
  - Bacteria—including MRSA and VRE, and [biofilm](#)-forming bacteria
  - Viruses
  - Fungi
  - Yeasts
  - Molds

# Dakin's vs. Competitors' Products

	<b>Dakin's</b> <i>Sodium Hypochlorite</i>	<b>Vashe</b> <i>Hypochlorous Acid</i>	<b>Puracyn Plus Pro</b> <i>Hypochlorous Acid</i>
<b>Effectiveness</b>	All products compared are similarly effective in preventing infection.		
<b>Shelf Life</b>	<b>2 years, even opened</b> <i>Full strength is 1 year</i>	<b>2 years unopened</b> <i>30 days after opening</i>	<b>2 years</b>
<b>Retail Price</b>	<b>\$150 / 128 fl oz</b>	<b>\$497 / 102 fl oz</b>	<b>\$213 / 101 fl oz</b>
<b>Potency</b>	Wide range of potencies for different use cases, so providers can find the right concentration for each unique wound.	Offered in a single formulation, used in similar situations as Dakin's Diluted Solution (0.0125% Sodium Hypochlorite)	Offered in a single formulation, used in similar situations as Dakin's Diluted Solution (0.0125% Sodium Hypochlorite)

## Stability

### Hypochlorous Acid

Hypochlorous acid is an unstable, strong oxidizing agent. The chlorine molecule is lightly bound and reacts easily.



### Sodium Hypochlorite

The sodium salt of hypochlorous acid, sodium hypochlorite, is typically in alkali or base form, which is more stable.



**In any hypochlorite solution, including sodium hypochlorite and hypochlorous acid, the active moiety is the same.**

Time After Manufacturing	Potency reduction (%LA) from initial test of active ingredient	
	Hypochlorous Acid Competitor Product <i>(lot #V-0111)</i>	Sodium Hypochlorite 0.0125% – Di-Dak-Sol <i>(lot #4446)</i>
1 Year	26.2%*	4.9%
2 Years	35.0%*	7.7%

\*Potency reduction after initial test when we received the product, not right after manufacturing.

# Why Doctors Use Dakin's

*Di-Dak-sol is easy to use, readily available to purchase online and via pharmacy for all patients, and wont break the bank. We tend to use stronger dilutions with malodorous wounds, making it more bearable for staff and patients ... It is non-cytotoxic and effective in biofilm base wound management. There is no known resistance. I love this product.*

Jean McCormack  
**Founder at Ostomy and Wound Education Academy, NP**

*Dakin's Solution is a staple in wound care treatment. Correct concentrations are imperative for successful wound healing. ... Multiple strengths and light-protecting packaging make sure my patients get the best quality product for their wound care. I recommend their products anytime I use Dakin's.*

Stephanie  
**BSN, RN, CWOCN, CFCN**

# What is Biofilm?

## Biofilm Prevents Wound Healing

Biofilm is a conglomerate of microbes with a distinct structure, highly resistant to antibiotics, up to 1,000 times more resistant than the same bacteria not growing in a biofilm. The biofilm is formed when a group of microorganisms stick to each other and become embedded within a self-produced matrix of extracellular polymeric substance composed of extracellular DNA, polysaccharides, and proteins.

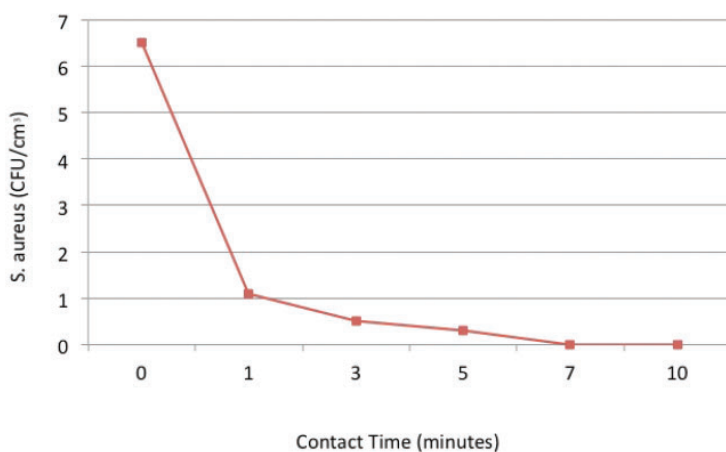
The CDC (Centers for Disease Control) estimates that more than 65% of hospital-oriented infections are caused by biofilms.

Some bacteria within biofilm are protected from host defenses and develop resistance to systemic antibiotic treatment. *Acinetobacter baumannii*, *Staphylococcus aureus*, and *Pseudomonas aeruginosa* are three difficult-to-treat biofilm-forming bacteria frequently found in wound infections.

## Hypochlorous Acid Disrupts Biofilm

In order to disrupt biofilm within a wound, a wound cleansing agent must be able to kill the bacteria and simultaneously decrease the polysaccharides and proteins in the extracellular matrix of the biofilm.

**Figure 1.** Effect of Hypochlorous Acid on Biofilm *S. aureus* Bacterial Numbers



*From Martin CR. Treating Chronic Wounds With Hypochlorous Acid Disrupts Biofilm. Today Wound's Clinic. 2014 Volume 8, issue*

In the study referenced above, approximately 70% of biofilm polysaccharide and > 90% of biofilm protein was removed after 5, 7, and 10 minutes of contact time. Similar data have been reported in a [Pseudomonas aeruginosa biofilm model](#) using hypochlorous acid.

# Talk to Your Purchasing Team

## Medical Suppliers

For Providers / Institutions

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For At-Home Care

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**amazon**

**sam's club**  (pharmacy)

And others ...

# DAKIN'S

**Questions?**

Call us at [+1 \(317\) 849-4210](tel:+13178494210)

Email us at [customerservice@dakins.net](mailto:customerservice@dakins.net)