





Innovative microbe binding action for wound care

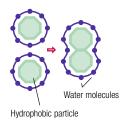
Antibiotic and antiseptic free

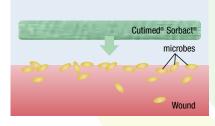
Cutimed® Sorbact® The innovative approach to microbe binding therapy.

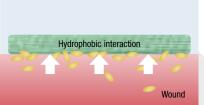
The Cutimed® Sorbact® method has been proven to provide effective microbe binding action in chronic and acute wounds across all levels of contamination from colonized to infected. The Cutimed® Sorbact® method relies on the powerful physical principle of hydrophobic interaction to attract, bind and inactivate pathogens without the complications of antibiotics, antiseptics or ions. Bound and inactivated pathogens are removed with each dressing change reducing the microbial load and removing one of the principle barriers to wound healing.

The Sorbact® method: Hydrophobic interaction.

In aqueous environments hydrophobic particles (lipids, cell walls and membranes) naturally aggregate and are held together through their interaction with water molecules. The fatty acid derivative DACC (Dialkyl carbomol chloride) incorporated in Cutimed® Sorbact® products is highly hydrophobic as are the outer membranes and cell walls of pathogenic microbes. Microbes are bound to the dressings where they lose their ability to reproduce and infect the wound.









Indications

Acute and Chronic wounds including contaminated, colonized or infected wounds

Chronic wounds

- Venous leg ulcers
- Diabetic ulcers
- Pressure ulcers
- Arterial ulcers prior to revascularization

Acute wounds

- Post op and dehisced surgical wounds
- Traumatic wounds
- Post excision of fistulas or abscess



The Advantages of the Sorbact® method:

Effective against all wound pathogens including MRSA and VRE

MRSA and VRE retain their hydrophobic character and are readily bound and inactivated by Cutimed® Sorbact® dressings.

No generation of resistant strains

The Cutimed® Sorbact® method works outside the microorganism physically binding them together and to the dressing with no chemical or metabolic interactions to which pathogens could develop resistance.

Non allergic

Unlike topical antibiotics the Sorbact® method does not utilize allergy inducing substrates or chemicals to which staff or patients might develop sensitization or allergic reactions.

No cytotoxicity

The Cutimed® Sorbact® method binds pathogens without affecting the cells involved in wound healing. Cutimed® Sorbact® remains bound to the dressings and has been shown to be without cytotoxic effects.

Blocks endotoxin release

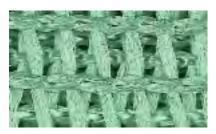
Antibiotics and antiseptics kill microbes and encourage the breakdown of microbial cell walls and membranes. Microbial cytoplasm and endotoxins are released into the wound where they are potent stimulators of inflammatory and immune processes that serve as barriers to wound healing. Cutimed® Sorbact® hydrophobic binding insures microbial cell walls stay intact and do not release cytoplasm or endotoxins that interfere with wound healing.

No contraindications

There are no known contraindications to the Cutimed® Sorbact® method.



Cutimed® Sorbact® is effective against gram positive and gram negative bacteria (picture: Staph. aureus, Pseudomonas aeruginosa bound to Cutimed® Sorbact®).



The efficacy of Cutimed® Sorbact® is based on the hydrophobic properties of its special coating. The Hydrophobic properties of the DACC coating Cutimed® Sorbact® products produce their powerful and unique mode of action.

Wide product range



Cutimed[®] Sorbact[®] The right choice for every wound.

The Cutimed® Sorbact® range of products offers high flexibility in the microbe binding therapy of infected wounds. Choose your dressing depending on type of wound, exudate level and wound depth:

Cutimed® Sorbact® Gel

Cutimed® Sorbact® Gel is a hydrogel impregnated dressing that delivers the advantages of the Sorbact® method of microbial management to dry, necrotic, sloughy or cavity wounds.



Cutimed® Sorbact® dressing pads

Absorbent pad dressing with Cutimed® Sorbact

Absorbent pad dressing with Cutimed® Sorbact® wound contact layer.



Cutimed® Sorbact® ribbon gauze
Sorbact® impregnated cotton ribbon gauze for wound filling and packing.



Cutimed® Sorbact® swabs
Classic wound sponge presentation of Sorbact® impregnated acetate gauze.









Works well with other dressings

Cutimed Sorbact dressings may be used in combination with other primary and secondary dressings to insure appropriate microbial, exudate and moisture management.

- Hydrogels
- Transparent dressings
- Foam dressings
- Absorbent dressings



NEW

Cutimed® Sorbact® Hydroactive Infection control plus fluid management.



Variable absorption matrix adapts to wound moisture levels

- Maintains wound bed moisture in non exuding wounds
- Absorbs high levels of exudate when required
- Locks exudate in hydropolymer core even under pressure or compression
- Prevents peri wound maceration
- Manages more wound types reducing the need for multiple dressings in inventory
- Stays on longer to reduce dressing change frequency and cost of treatment.

Gentle on the wound

- Does not stick to wound bed
- Conforms to the wound
- Cushions and protects
- Atraumatic, pain-free dressing changes

100 | MVTR | Absorption | g/100 cm² | 60 | 40 | 30 | 20 | 10 | 24 h | 48 h

The Sorbact Method

- Works with contaminated and infected wounds
- Physically binds and inactivates pathogens
- Reduces wound odor
- Reduces cytoplasm and endotoxin release
- Reduces infection and inflammation

Fluid absorption capacity

of Cutimed® Sorbact® Hydroactive

MVTR- Moisture Vapor Transmission Rate In-vitro tests confirm the superior total fluid management capacity of Cutimed Sorbact Hydroactive. In-vitro report (data on file)



Apply to the wound and remove the outer carrier.



High absorption insures reduced frequency of dressing changes while Non Adherent Cutisorb® Sorbact® Hydroactive insures dressing changes are pain-free.

Clear evidence

Evidence based support of the Sorbact® Method

The Sorbact® method: Reliable infection control.



Building on the success of previous trials²⁻⁴ a multicenter investigation of 116 patients with colonized or infected wounds showed improvement in 93% of wounds treated with the Cutimed® Sorbact® Method. The Cutimed® Sorbact® Method successfully reduced pain and barriers to wound healing.

The more pathogenic the microbe the more Cutimed Sorbact is effective.



Studies have documented the increase in the expression hydrophobic interactions as pathogens become more virulent.5-8 The Sorbact® method utilizes the principle of hydrophobic action to bind and inactivate pathogens including fungi such as C. Albicans providing an effective alternative or concurrent way to reduce wound contamination and infection.9-10

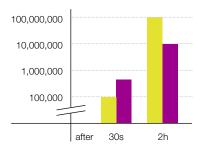


Wound pathogens under the electronic microscope: Streptococcus pyogenes, Staphylococcus aureus. Pseudomonas aeruginosa, Escherichia coli, Candida albicans

Rapid action: from 0 to 100,000 in 30 seconds.



A wound with a bacterial count of 10⁵ per gram of tissue is considered infected. One square centimeter of Cutimed® Sorbact® can bind and inactivate 105 bacteria in 30 seconds. Within 2 hours the Sorbact® method climbs to 10° pathogens bound per square centimeter.9



The fast binding of Cutimed® Sorbact® shown in S. aureus (yellow) and P. aeruginosa (purple)

- 1. Kammerlander G et al (2007). Non-medicated wound dressing as an antimicrobial alternative in wound management. Die Schwester Der Pfleger 46: 84-87.
 2. von Hallern B, Lang F (2005). Has Cutisorb Sorbact proved its practical value as an antibacterial dressing? Medizin & Praxis Spezial "Infected Wounds" 50-54.

- Meuleneire F (2007). Dressing choice for infected wounds with resistant bacteria and problems of contact allergy. Poster presentation, EWMA Journal, Supplement 7: P77. von Hallern B (2007). Reducing complications in diabetic foot ulcers on the basis of a hydrophobic bacteria binding dressing. Poster presentation, EWMA Journal, Supplement 7: P109. Ljungh Å, Wadström T (1995). Growth conditions influence expression of cell surface hydrophobicity of Staphylococci and other wound infection pathogens. Microbiological Immunology 39: 753-757.
- Ljungh Å, Hjerten S, Wadström T (1985). High surface hydrophobicity of autoaggregating Staphylococcus aureus strains isolated from human infections studied with the salt aggregation test. Infection and Immunity 2: 522-526.
- Ljungh Å, Österlind M, Wadström T (1986). Cell Surface Hydrophobicity of Group D and Viridans Streptococci Isolated from Patients with Septicaemia. Zbl Bakt Hyg A 261: 280-286.

Marked reduction in wound pain



Pain is a cardinal symptom of infection and studies have shown wounds treated with the Sorbact® Method show significant reduction in wound pain. 11-13

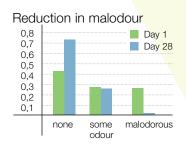


Patient's perception Multicenter study (data on file) very pleasant (71 %) neutral (27%) unpleasant (2%)

Odor and visual assessment of infection



Studies demonstrate considerable improvement in wound odor and visual assessment for infection when using the Cutimed® Sorbact® Method.9,11 Both measures score highly on improving quality of life and patient centered concerns about their wound. Reduction in infection and inflammation are essential to supporting active wound healing.



Easy to use



Cutimed® Sorbact® products consistently receive outstanding ratings for product handling and ease of use. In one study 98% of clinicians rated the dressings as "easy" or "very easy" to apply. The Cutimed® Sorbact® line provides the appropriate product for every wound situation.

Product handling Multicenter study (data on file) good/very good (98%) satisfactory (2%) unsatisfactory (0%)

- 8. Ljungh A, Yanagisawa N, Wadström T (2006). Using the principle of hydrophobic interaction to bind and remove wound bacteria. J Wound Care. 15: 175-180.
- 9. Claesson M et al (2006). A promising alternative in the treatment of dermal fungal infections. Medizin & Praxis Spezial "Ulcus cruris" 55-56. 10. Robertsson E (2007), Treatment of Candida infection with a fungus adsorbing dressing. Sår 1: 26.
- 11. Hampton S (2007). An evaluation of the efficacy of Cutimed® Sorbact® in different types of non-healing wounds. Wounds UK. 3: 1-6.
- 12. Powell G (2009). Évaluating Cutimed® Sorbact®: using a case study approach. British Journal of Nursing 18 (15 Suppl): S30-S36. 13. Pirie G (2009). Cutimed® Sorbact® gel: a new infection management dressing. Wounds UK. 5: 74-78.

Cutimed® Sorbact®

Exudate level Wound depth Wound phase Dry to low Shallow Sloughy Low to medium Shallow + deep Infected Medium to high Necrotic

Ordering Information

timed® Sorbact®	REF No.	Size (Wound pad)	Dressings/box	Suggested HCPCS Code
Hydroactive Variable absorption matrix manages low to high exudation levels NEW	7264603	2 ³ / ₄ " x 3 ⁵ / ₁₆ " (2" x 2 ¹ / ₂ ")	10	A6242
	7264604	5 ¹ / ₂ " x 5 ¹ / ₂ " (4" x 4")	10	A6242
	7264605	7 ¹ / ₂ " x 7 ¹ / ₂ " (6" x 6")	10	A6243
	7264606	9 ¹ / ₂ " x 9 ¹ / ₂ " (8" x 8")	5	A6243
	7264607	$5^{1/2}$ " x $9^{1/2}$ " (4" x 8")	10	A6243
Dressing pads	7216101	2 ³ / ₄ " x 3 ¹ / ₂ "	5	A6251
Absorbent dressing pads with	7216100	2 ³ / ₄ " x 3 ¹ / ₂ "	40	A6251
Sorbact wound contact layer	7216201	4" x 4"	5	A6251
	7216200	4" x 4"	40	A6251
	7216300	4" x 8"	20	A6252
Swabs	7216401	1 ¹ / ₂ " x 2 ⁵ / ₁₆ "	5	A6222
Classic wound gauze sponge	7216400	1 ¹ / ₂ " x 2 ⁵ / ₁₆ "	40	A6222
presentation of Sorbact impregnated acetate gauze.	7216501	2 ³ / ₄ " x 3 ¹ / ₂ "	5	A6222
implegrated accrate gauze.	7216500	2 ³ / ₄ " x 3 ¹ / ₂ "	40	A6222
Ribbon gauzes	7216600	³ / ₄ " x 50 cm	20	A6266
Sorbact impregnated cotton ribbon gauze for wound filling	7216700	2" x 200 cm	10	A6266
and packing	0			
Round swabs	7216800	walnut	70	A6222
Preformed Sorbact impregnated acetate round swabs for wound cleansing.			(14 x 5)	
Gel	7261100	3" x 3"	10	A6231
Hydrogel impregnated dressing delivering the Sorbact method of microbial	7261101	3" x 6"	10	A6232

Sorbact method of microbial management plus autolytic debridement to dry, necrotic, sloughy or cavity wounds.





HCPCS codes listed are only suggested codes; other codes may be more applicable depending on intended product use. Codes are subject to change without notice.

For more information on the Cutimed® Sorbact® range of products please visit us at: www.cutimed-sorbact.com

Please refer to the product label and package insert for full instructions on the safe use of these products.



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