

# Microdacyn60 liquid & Microdacyn Gel

Highly effective treatment for acute and chronic infected wounds and burns.

## Benefits:

### • TRIPLE MODE OF ACTION

Promotes the body to perform its own healing process;

1. Bactericidal reduction
2. Anti-inflammatory effect
3. Active tissue regeneration

- FEWER ANTIBIOTICS NEEDED
- SAFE FOR HEALTHY SKIN CELLS

## Microdacyn Wound Care

Microdacyn occupies a special position within the category of wound treatment products, because the way it operates is not based on specific chemical-synthetic components.

Microdacyn is a biologically active treatment for debridement, moistening and decreasing the microbial load of acute and chronic wounds that are difficult to heal, infected or otherwise. It is absolutely safe, both for the patient and the care provider. Microdacyn decreases the microbial load by eliminating pathogenic one cell micro-organisms, without toxic or other harmful effects on human tissue. In addition Microdacyn contributes to a moist

wound environment

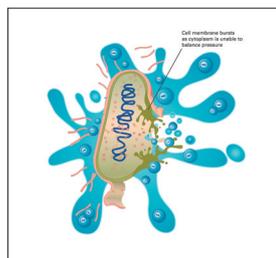
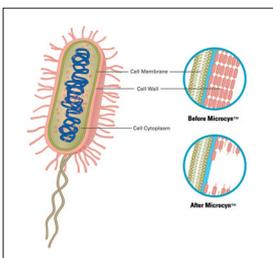
resulting in faster healing of the wound. The product is not only effective but also very user-friendly. It is not irritating for skin, eyes or throat and eliminates smell. Microdacyn is ready to use and environmental friendly. After use the active ingredients are reduced to zero and all that's left is NaCl. Therefore, Microdacyn does not have to be disposed as hospital waste. Microdacyn can easily be used in combination with other forms of wound treatment.

## Production and CE registration

Microdacyn60 solution and Microdacyn gel are produced by Oculus Technologies of Mexico S.A. de C.V. and is CE-approved. (CE 1011)

## Product description and operation

Microdacyn is the international brand name for wound care products based on Microcyn Technology, developed by Oculus Innovative Sciences USA.



Microdacyn60 solution and Microdacyn gel are super-oxidized products, manufactured through the electrolysis of ultra-pure water and NaCl. Microdacyn denatures the cell wall of one-cell organisms causing it to leak and to disintegrate. Studies also show that Microdacyn has an anti-inflammatory and an antiallergenic effect, which contributes to faster wound healing.

## Facts and advantages

for the patient/during treatment:

- Decontaminates
- NON-(cyto)toxic
- pH neutral
- NON-irritating
- Odor reduction
- Can also be used as a prophylactic
- Can be combined with other forms of wound treatment for the user or care provider
- Cost-effective

## Research results

### 1. Antibacterial effect

In vitro studies show that Microdacyn kills bacteria, molds, spores and viruses quickly at a significant log reduction.

### 2. Also effective against bio films

Research has shown that Microdacyn has a bactericidal effect on pseudomonas and E coli stems that produce bio films. After 30 minutes of exposure to Microdacyn most cells turned out to have been killed.

### 3. Ant-inflammatory effect

In vitro tests show that 15 minutes of exposure to the product is sufficient to suppress the release of histamine by 90%. In addition Microdacyn inhibits the release of other inflammation-prolonging molecules (among others interleukins, IFN-gamma and TNF-alpha), as a result of which the 'good' cytokines are better able to initiate the wound healing process.

### 4. Active tissue regeneration

A clinical study shows that Microdacyn was nearly twice as effective in the healing process of diabetic foot ulcer as a test group treated with a physiological salt solution (0,9% NaCl). Researchers also noticed a reduction in the microbial load and an increase in the formation of granulation tissue. In another comparing

study it was also noticed that the patient group treated with Microdacyn showed faster epithelialization.

### 5. Fewer antibiotics needed

In two recent studies it was demonstrated that patients with diabetic foot ulcers who were treated with Microdacyn needed antibiotics for a considerably shorter period than a control group that was treated with povidone iodine. In one of these studies the difference was nearly 43% (74 versus 129 days). In addition wound closure in the Microdacyn group was on average 2 months earlier than in the iodine group (after 144 versus 212 days, a time gain of 32%).

### 6. Safe for healthy skin cells

In comparison with other products (for example those on the basis of hydrogen peroxide) Microdacyn is NON cytotoxic and therefore completely safe for human tissue. Research has shown that even prolonged exposure of human fibroblasts to Microdacyn does not lead to cell death. In contrast to viruses, spores and bacteria human cells have a mechanism that regulates the absorption of the active ingredients of Microdacyn. This prevents tissue damage. In comparison with among other things iodine, chlorhexidine and silver sulphazidine Microdacyn appears to be one of the safest and skin-friendliest products.

More product information is available on [www.oculusis.com](http://www.oculusis.com) or upon request

## Indications

- Chronic ulcers
- Diabetic foot ulcers
- Ulcus cruris (arterial and venous)
- Infected decubitus wounds
- Burns (1st and 2nd degree)
- Oncological wounds
- Acute wounds (prophylactic)
- Infected and necrotic traumatic wounds
- Surgical wounds

## Contra-indications

No conditions are known whereby Microdacyn should not be applied.

## Application Instructions for use



- Apply Microdacyn Wound Care directly onto the wound with the help of one or more drenched pieces of gauze.
- Use Microdacyn Wound Care 2 times a day for 15 minutes, and also each time the bandage is changed.
- It is easier to remove the old bandage if you first saturate it in Microdacyn Wound Care.
- It is not necessary to rinse the wound after treatment.

product name	product description	product code
Microdacyn60 Wound Care	120 ml / 12 bottles per box	44108-00
	120 ml / 12 bottles per box (individual box)	44109-00
	250 ml / 12 bottles per box	44106-00
	250 ml / 12 bottles per box (individual box)	44107-00
	500 ml / 24 bottles per box	44101-00
	500 ml / 24 bottles per box (individual box)	44102-00
	500 ml / 6 bottles per box (individual box)	44104-00
	990 ml NPWT / 6 bottles per box	44199-00
	5 L / 4 bottles per box	44100-00
Microdacyn Hydrogel	120 g / 6 bottles per box (individual box)	44209-00
	250 g / 6 bottles per box (individual box)	44207-00