

Nanogen Aktiv



Advanced wound care from nature

Nanogen Aktiv Bio-Cellulose nano-structured matrix

Product Description

Organic nano-fibre material (less than 2nm wide) is a totally natural fibre based on polysaccharides composed of hemicelluloses protein - a membrane made from a nano-biotechnology biomimetic scaffold process.

Mode of Action

Nanogen Aktiv is rich in acetic acid, lactic acid, glucuronic acid, usnic acid, enzymes, vitamin B1, B2, B3, B6 AND B12, vitamin C, D, E, K, Biotin, and folic acid. When applied to the wound surface it will stimulate collagen, collagen will start to stimulate fibroblasts, stimulating TGF- β (TGF- β is the liberation for other factors such as (PDGF, KGF, FGF, IGF...etc), There will also be an increase in the activity of NK cells (cells T&B) which will boost the immune system: Platelets release growth factors and cytokines, they will draw inflammatory cells, Neutrophils and macrophages, into the injured area (neutrophils will release a number of lysosomal enzymes which proteolytically remove the damaged components of extracellular matrix), Neutrophils and macrophages digest bacteria, releasing growth factors, cytokines, and proteases. The Proliferative phase, including granulation and epithelialization will start due to Fibroblasts, endothelial cells are attracted to the wound producing growth factors, fibroblasts will release collagen and glycosaminoglycans, The combination of collagen and fibronectin forms the new Extra Cellular Matrix, ECM synthesis and new vessels, granulation tissue formation and epithelialization by Keratinocyte migration, thereby increasing the dermis volume and accelerating wound healing.

Benefits

Stays in-situ for up to seven days, making it cost effective.

Able to absorb copious amounts of fluid (20x its own dry weight).

Accelerates wound healing.

The Translucent nature of the material allows easy inspection of the wound without disturbing the wound bed.

Allows the transmission of moisture, but not bacteria, thus making Nanogen Aktiv inherently anti-microbial.

A 100% 'natural' product derived from plants.

Indications

- Venous ulcers
- Diabetic ulcers
- Pressure Ulcers
- Partial and full-thickness wounds
- Donor sites and preparing graft sites
- Epidermolysis bullosa
- Surgical wounds (dehiscenced wounds)
- Trauma wounds (abrasions, lacerations and skin tears)

Contra-Indications

None.

Precautions

Nanogen Aktiv is sterile only if the package is dry, unopened and undamaged.

Discard product if the package seal is opened or contaminated.

The product must be used prior to the expiration date.

Needs to be used in conjunction with a secondary dressing.

Sizes and Codes

Size	Carton Quantity	Order code
3cm x 3cm	Carton of 10	610101
5cm x 5cm	Carton of 10	610202
8cm x 9cm	Carton of 5	610303
10cm x 10cm	Carton of 5	610404
10cm x 20cm	Carton of 5	610408

