ADVANCIS

Medical Grade Manuka Honey

Wound care solutions

- ✓ Antibacterial
- ✓ Reduces odour
- ✓ Debrides & desloughs
- ✓ Credible alternative to silver dressings



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What's Inside

This booklet explores what makes medical grade Manuka honey unique, how it differs from everyday honey, and the rigorous standards behind our certified products. You'll also find practical guidance on dressing selection and real-world case studies demonstrating clinical outcomes.







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What Makes Manuka Honey Different?

Honey has been used in many cultures to treat wounds because of its antibacterial and regenerative properties, dating as far back as Ancient Egypt.[1] Honey's high sugar content can hinder microbial growth, and its osmotic effect helps prevent bacteria growth and promotes healing. [2]

Manuka honey has the glucose oxidase (GOx) enzyme needed to produce hydrogen peroxide (H2O2). This is essential for antibacterial activity. GOx, however, is not active in raw honey due to the lack of free water. [3]

While all honeys contain some level of peroxide activity (PA), Manuka honey contains high levels of non-peroxide activity (NPA), related to its unique methylgloxal (MGO) and dihydroxacetone (DHA) content. Crucial for honey's medical benefits in wound care.




CROTON

What is Medical Grade Honey?

The definition of the basic requirements of 'medical grade' honey are well defined and extensive research has been published outlining what medical grade, specifically Manuka, honey is, and defining the elements required for a safe and medically effective product.



Hermanns et al., for example, has outlined five minimum requirements to help define and promote clear standards for medical grade Manuka honey:

• Is organic and free of contaminants and toxic substances,
• Is gamma sterilised under standardised conditions and free of dangerous microorganisms,
• Can be safely implemented in medical therapies,
• Follows strict production and storage standards, and legal and safety regulations,
• Complies to the physicochemical criteria that are important for the use of honey as a wound care product.[4]



Currently (August 2026), the International Standards Organization (IS0) has not created guidelines, or defined exactly what constitutes as ‘medical grade’ honey and there are no universally accepted guidelines on its production.

This has led to the creation of several confusing accreditations that are little more than marketing creations, rather than guarantees of quality.

On a scientific and clinical basis, if the level of measurable Methylglyoxal (MGO) in medical grade honey is equivalent to 260+ mg/kg and Dihydroxyacetone (DHA) is 1200+ mg/kg, the honey will have a Non-Peroxide Activity (NPA) of 10+. It will be therapeutic and exhibit antibacterial efficacy. Higher levels than this are of little benfit, as bacteria cannot survive anyway.

To guarantee an NPA rating above 10+ would risk disposing of a scarce valuable commodity solely to gain a false marketing advantage.

Advancis Medical 100% medical grade Manuka honey products are sourced, treated and manufactured in accordance with clinical guidance, and is an effective broad spectrum antibacterial.



Medical Grade Honey vs. Supermarket Honey

Medical grade honey is safe to use in wound care, it is filtered to remove impurities, Gamma sterilised to ensure it is free from contaminants, and should be organically sourced from areas that are free from pesticides and environmental pollution.

Edible grocery honeys can be multi floral and are often diluted with additives, such as corn syrup, to lower costs. They are heat treated which destroys potentially wound healing enzymes and are not guaranteed to be sterile, making them dangerous to use on open wounds.

STERILISED GAMMA INGREDIENT

CLINICALLY SAFE FOR USE

100% ORGANIC SOURCE





Where does our Manuka honey come from?

Advancis Manuka honey is organically farmed and sourced from a remote area of New Zealand that is free from road networks, built up urban areas and the associated pollution. There are no animal or agriculture farms nearby which eliminates any contamination from pesticides, GMO crops or animal waste.

The apiary (bee farm) hives are ethically built and harvested at appropriate times of the year and transported periodically between sites. Ensuring the bee population remains healthy and a suitable amount of flowering Leptospermum Scoparium (Manuka) shrubs are available for the bees to collect nectar and pollen from, to make mono-floral, medically effective honey.

Advancis Certified:

Our medical grade Manuka honey is 100% genuine

Advancis Medical guarantees Activon, Algivon and Actilite products contain genuine Manuka honey that complies with the following guidelines (see page 11) set out in clinical research.[4] Outlining what qualifies as medical grade honey and defining the elements required for a safe and medically effective product.







What is medical grade honey?	Advancis medical grade Manuka honey:
Is organic and free of contaminants and toxic substances [4]	✓ 100% mono floral Manuka honey (i.e. not a blend of multi floral honeys, sugars or other additives) ✓ Filtered at 50µm to remove spores and impurities
Is gamma sterilised under standardised conditions and free of dangerous microorganisms [4]	✓ Sterilised by gamma irradiation
Can be safely implemented in medical therapies [4]	✓ Non-Peroxide Activity (NPA) of 10+, a rating considered therapeutic
Follows strict production and storage standards, and legal and safety regulations [4]	✓ Organically farmed and free of pesticides and other environmental pollution, in accordance with regulations (EC)889/2008 and (EC)834/2007 ✓ We manufacture in compliance with ISO 13485 Medical Quality Management System and are regularly audited by medical device governing bodies to ensure our procedures are up to date ✓ CE marked and approved by the FDA
Complies to the physicochemical criteria that are important for the use of honey as a wound care product [4]	Manufactured with Manuka honey containing: ✓ Methylglyoxal (MGO) 260+ mg/kg ✓ Dihydroxyacetone (DHA) 1200+ mg/kg
Typically contains about 20% water (almost all bound up with the sugar molecules)	The low water activity of honey causes fluid flow which flushes bacteria debris, slough and necrotic tissue out of the wound, and carries nutrients and oxygen from the deep tissue into the wound area. ✓ Moisture < 20%

What Are the Benefits of Medical Grade Honey?



Broad Spectrum Antibacterial

Considerable antibacterial activity against a broad spectrum of wound-infecting species. [5]

Peroxide mediated:

- ✓ Manuka honey is collected from Leptospermum Scoparium plants, a floral source containing dihydroxyacetone (DHA) which produces methylglyoxal (MGO), associated with non-peroxide activity. [3]
- ✓ The Glucose oxidase (Gox) enzyme secreted by the bees generate gluconic acid and hydrogen peroxide (H2O2). [6]
- ✓ MGO can induce microbial flagella damage, reducing its mobility and ability to adhere. [5]

Non-peroxide mediated:

- ✓ Low acidic pH of honey can decrease the protease and esterase activity, enhancing oxygen saturation and abolishing certain microorganisms that eventually impedes the healing process. [7]
- ✓ Bacterial and quorum sensing activity diminishes the bacterial coordination and virulence by inhibiting the quorum sensing activity of bacteria. [7]



Reduces Odour

Effectively reduces odours associated with malodorous wounds. [6] Used to lessen foul odours from wounds which can cause a social barrier for patients, that may lead to isolation. [7]



Debrides & Desloughs

Effectively desloughs and debrides wounds and absorbs exudates [8]

✓ The osmotic effect of honey draws lymph fluids from the deeper zones and rinses the wound bed. Which can aid in removing foreign body contaminations and the rich source or protease from the lymph fluid to assist debriding. [1]



Biofilms

Prevents formation of a wide range of common wound-infecting biofilms and can inhibit many established biofilms. [7]

✓ Inhibiting the quorum sensing activity of bacteria. [7]



Facilitates Autolysis

Osmotic effect draws exudate from the wound bed. [9]

✓ Extracts lymphatic fluid from the wound, promoting autolytic debridement. [6]



Non-Cytotoxic

✓ A natural credible cost-effective alternative to more common wound therapies such as silver. [10]



Honey is a super-saturated solution of sugars. The strong interaction between these sugars with water molecules prevents the abundance of free water molecules (low water activity) available for microbes to grow.



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predominantly arises
gluconic acid.

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Aids Healing

Can help maintain a moist wound environment and aid the healing process.

- ✓ Antibacterial properties help facilitate tissue regeneration as bacterial consumption can lead to reduced oxygen on the wound site, hindering tissue growth. [11]
- ✓ Providing ideal levels of moisture, pH, sugar content, reactive oxygen species (ROS) generation and anti-inflammatory collectively contribute to the wound healing stages. [11]
- ✓ Enhancing granulation, epithelialisation, and reducing hypertrophic scars and contractures in burn patients. [11]

n average pH of 3.91
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h around 7. Acidity
from gluconolactone/

Honey is hygroscopic, which means that it can draw moisture out of the environment and dehydrate bacteria, and its high sugar content and low level pH can prevent the microbes from growing.[12]



Dressing Selection Guide

Product	Exudate Absorption								
Recommended Primary Dressing & Wound Preparation									
Activon Tube		✓	✓	✓	✓	✓	✓	✓	
Activon Tulle					✓	✓	✓	✓	
Algivon		✓	✓					✓	
Algivon Plus		✓	✓	✓				✓	
Algivon Plus Ribbon		✓	✓	✓				✓	
Actilite*					✓*	✓*	✓*	✓*	
Activon Manuka Honey Barrier Cream									✓

*Actilite should only be used with low levels of exudate

The effectiveness of multiple debridement techniques in extensive ulceration and necrosis to both feet

Patient Profile

Patient
Male with type two diabetes with peripheral neuropathy.

Wound
Extensive ulceration and necrosis on both feet.

Treatment
Using three methods of debridement, including Autolytic debridement using **Algivon** and **Activon Tube** between appointments.

Results
Progressed promptly to healing without complication due to appropriate debridement techniques chosen. The treatment regime was successful and the wound healed within a 16 week period.



Presentation | After 25 days | After 3 months

Second degree burns treated with Hydrogel, Activon Tube, Actilite and Eclypse

Patient Profile

Patient
35-year-old female.

History of hypertension, diabetes, obesity and myocardial infarction.

Wound
Second degree burns

Admitted no later than one hour after the incident.

Treatment
Washed with saline solution, applied **Activon Tube** and **Actilite** with **Eclypse** as the secondary dressing.

Results
In less than 20 days, the majority of the burns were healing well without the need for skin grafting. Only a small amount of skin grafting will be required at the third degree burn area. The patient was compliant with the treatment provided and found the dressings of a very acceptable pain level.



Admittance to hospital | After 40 days | After 2 months

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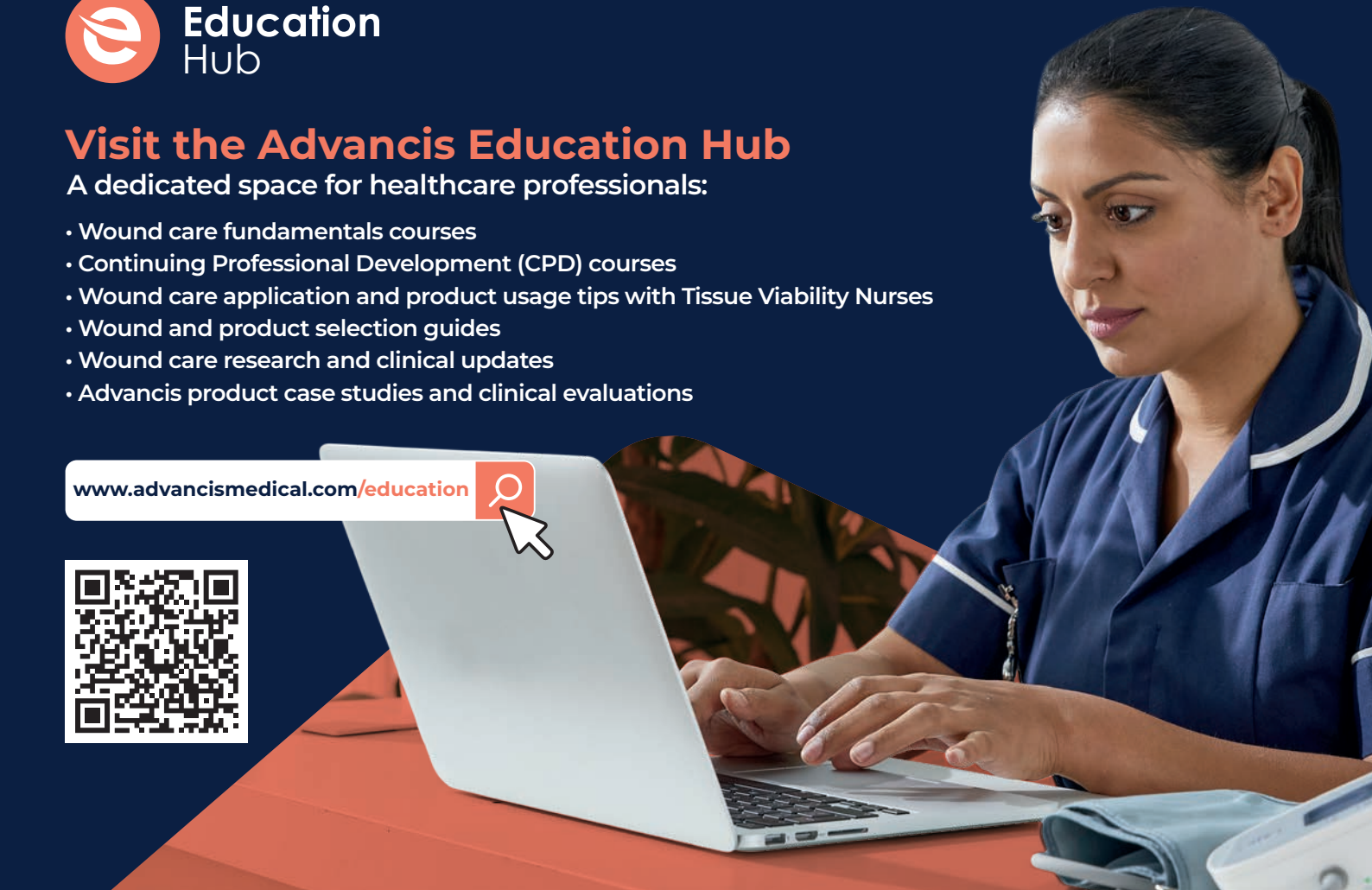
Education Hub

Visit the Advancis Education Hub

A dedicated space for healthcare professionals:

- Wound care fundamentals courses
- Continuing Professional Development (CPD) courses
- Wound care application and product usage tips with Tissue Viability Nurses
- Wound and product selection guides
- Wound care research and clinical updates
- Advancis product case studies and clinical evaluations

www.advancismedical.com/education



Ordering Codes

Product	REF	Size	Pack Size	PIP Code	NHS SC Code
Actilite	CR4281 CR3849 CR3852 CR4366 CR4367 CR4368	5cm x 5cm 10cm x 10cm 10cm x 20cm 20cm x 30cm 30cm x 30cm 30cm x 40cm	10 10 10 10 5 5	379-3759 335-4917 335-4925 398-8078 398-8086 398-8094	EJE079 EJE042 EJE040 EJE163 EJE164 ELY869
Activon Manuka Honey Barrier Cream	CR4546	100g	1	435-4411	ELZ85134
Activon Tube	CR4493	20g	12	419-7646	ELY864
Activon Tulle	CR3761 CR3658	5cm x 5cm 10cm x 10cm	5 5	304-0631 304-0623	EJE027 EJE028
Algivon	CR383 1 CR3659	5cm x 5cm 10cm x 10cm	10 10	319-3711 319-3703	ELS846 ELS195
Algivon Plus	CR4230 CR422 5	5cm x 5cm 10cm x 10cm	5 5	374-9496 374-9512	ELS549 ELS550
Algivon Plus Ribbon *(with wound probe)*	CR423 1	2.5cm x 20cm	5	374-4653	ELS551

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