

# KRUIUSE Manuka Honey

Very high quality of medical grade honey to promote moist wound healing. Manuka honey has a recognised effect on supporting the wound healing process.

- Promotes a moist wound environment conducive to healing
- 100% pure medical graded Manuka Honey from *Leptospermum scoparium*, a small bush/tree from New Zealand
- Sterilised by gamma radiation that does not destroy glucose oxidase
- KRUIUSE Manuka honey has unique properties compared to other types of honey and dressings



## Why do KRUIUSE sterilise their Manuka Honey when bacteria and mould cannot grow on honey?

- Bees concentrate the nectar by passing it mouth to mouth from the worker bees to the hive bees who store it in a stomach (next to their 'other' stomach that can hold 70 different kinds of bacteria!)
- As they pass it on, the honey becomes more sugar rich - AND also pass on more concentrated glucose oxidase, which kills bacteria that dare to become viable within the stomach of each bee
- Honey stored in the hive is about 84% sugar + glucose oxidase and that itself stops bacterial growth
- Once Kruiuse Manuka honey is in a wound/different/open environment will it then attract water through osmosis
- This can mean that the sugar is no longer enough to disable bacteria as glucose oxidase also gets used up as dilution occurs
- The risk is that bacterial spores can be stored in the honey, which will be invincible to normal sugar and glucose oxidase and may become viable upon dilution - THEN it becomes VERY important that the honey you use for medical purposes is GAMMA sterilised
- We sterilise not Pasteurise as pasteurisation does not kill spores and they can be very dangerous. (*Clostridium botulinum* being one)

## Unique Features

### Promotes moist wound healing

The features of KRUIUSE Manuka Honey help the autolytic debridement and enhance the moist wound healing in many ways.

### Honey's pH creates the desired acidic environment

Honey's pH (3.6–3.7) creates the desired acidic environment that has been shown to decrease bacterial growth, increase fibroblast activity, and increase oxygen release, all of which promote wound healing further.

### Osmotic action due to honey's high osmolarity

Increased osmolarity draws fluid and lymph from the underlying tissues and this fluid provides nourishment to the healing wound.

### Glucose oxidase effect

Glucose oxidase produces hydrogen peroxide and gluconic acid, which provide the main antibacterial qualities of honey. The well-tolerated, low levels of hydrogen peroxide promote angiogenesis and fibroblast activity, enhancing oxygen delivery to tissue.

### Reduced Cost

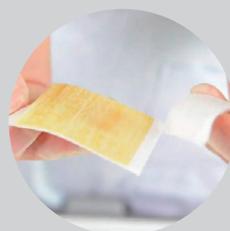
The dressing can be left on the wound for 3 to 5 days depending on the wound status. This reduces the number of dressing changes, need of sedation and bandage material.

### Easy to apply

After wound bed preparation simply apply the dressing needed. Evaluate the wound for amount of exudate and time to the next dressing change.

### Reduces smell, leads to good compliance from the patient

When the honey works and reduces the bacteria burden, it often takes away the bad odour, that comes from an infected wound.



Easy to apply

**Recommended use for KRUUSE Manuka Honey**

KRUUSE Manuka Honey ND non-adherent dressings

- For wounds with little exudate or in combination with KRUUSE Manuka gel.
- Honey impregnated into acetate gauze.

KRUUSE Manuka Honey AD absorbent dressings

- For wounds with moderate to heavy exudate
- Honey impregnated into a pad of super absorbent polymers.

KRUUSE Manuka roll is a unique product ideal for large vertical wounds.

Example: Equine forelimb.

KRUUSE Manuka G gel

- Honey gel for cavities



# Instructions for use

**Application**

After wound bed preparation simply apply the dressing needed.  
Evaluate the wound for amount of exudate and time to the next dressing change.

Use KRUUSE Manuka Honey as primary dressing alone or in combination with:  
KRUUSE Hydro Gel.

**Primary dressing suggestions**

- KRUUSE Manuka Honey

**Secondary dressing suggestion**

- KRUUSE Foam Dressing

**Tertiary bandage**

- KRUUSE Vet-Flex
- KRUUSE Soft-Flex
- KRUUSE Fun-Flex
- BUSTER Tubular Bandage

**Removal**

Remove dressing and flush away the honey to evaluate the wound and e.g. do debridement.

**Excellent wide range of products and sizes depending on wound**

Provet Code	KRUUSE Code	Description	Pack Size
MANU H D	165000	KRUUSE Manuka ND 5 x 5cm, non-adherent dressing, sterile	10
MANU H D2	165001	KRUUSE Manuka ND 10 x 12.5 cm, non-adherent dressing, sterile	10
MANU H D1	165002	KRUUSE Manuka ND 10 x 100 cm, non-adherent dressing, sterile	1 roll
MANU H D7	165005	KRUUSE Manuka AD 5 x 5cm, absorbent dressing, sterile	10
MANU H D6	165006	KRUUSE Manuka AD 10 x 12.5cm, absorbent dressing, sterile	10
MANU H D8	165007	KRUUSE Manuka AD 10 x 100cm, absorbent dressing, sterile (1 roll)	1 roll
MANU H G	165020	KRUUSE Manuka 15g honey gel, sterile	1
MANU H G1	165020	KRUUSE Manuka 15g honey gel, sterile	10

**Contact your local Provet Customer Service Team or Business Account Manger for more information or to place an order.**



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