

# Vetramil®

THE NATURAL POWER OF HONEY



Vetramil is a range of honey based skincare products for all animals, developed by Bfactory in close collaboration with Wageningen University & Research in The Netherlands.

The medical grade honey product was originally developed for human advanced wound care applications, and was registered as a medical device in Europe (CE class IIa and IIb), and later reformulated to meet the specific needs of veterinary use.



## **Our medical grade honey products can be used in:**

- Superficial and open wounds
- Lacerations, abrasions and avulsions
- Decubital ulcers
- Chronic and infected wounds
- Itchy skin and eczema
- Abscesses
- Wounds difficult to bandage

**Vetramil is suitable for all animals**

## About Vetramil

Vetramil is a medical grade honey based skin care product line for all animals. It is an effective and natural way to provide supportive care.

The use of Vetramil medical grade honey products can decrease the use of antibiotics in animals. It has efficient antimicrobial effects due to the honey's high glucose oxidase enzyme content, and sugars that create an osmotic pressure and formation of a low PH.

Vetramil's product line consists of medical grade honey based formulations that are optimized for easy and convenient use by the animal owners and caretakers. The ease-of-use of the products ensures the optimal efficacy and supports the recovery.

Vetramil's product line is well studied and the outstanding experience from clinical use in many European countries encouraged Bfactory to launch in the US market.

## Why Vetramil is needed?

**Antimicrobial resistance is a threat for the health of people and animals. Honey has become a serious alternative, because:**

- Potent antimicrobial activity and no development of bacterial resistance.
- Successful application on infected wounds not responding to antibiotic therapy.
- Suitable for all animals.
- Every batch of medical grade honey is tested for enzyme content and carefully purified to ensure its safety.

## Quality control

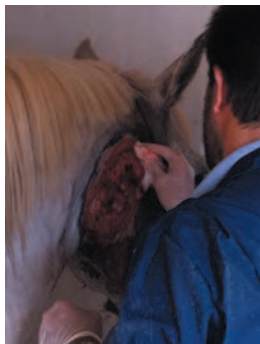
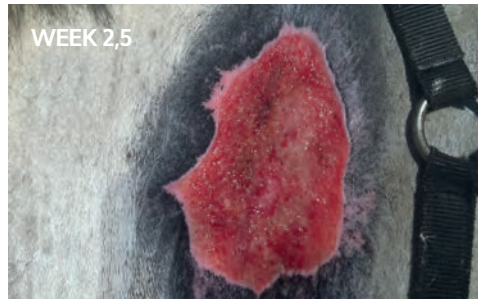
Each honey batch is tested for;

- pH
- enzyme activity
- water content
- residues



## Treatment of a Lusitanian mare with head wound, possibly caused by a dog bite.

The wound was cleaned and a course of Penicillin was given for 7 days. Daily, the wound was cleaned and a thin layer of Vetramil ointment was applied. Its essential oils helped to protect against flies, while honey's antibacterial properties prevented infection. Complete wound closure occurred in under 15 weeks.

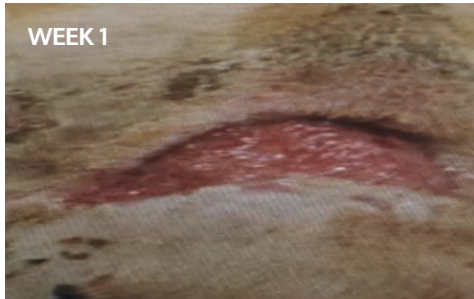


## Treatment of Birillo's neck wound following a car accident

Birillo was brought to the veterinarian with an exudating neck wound full of fly larvae. The wound was surgically debrided and stitched. The stiches did not hold. After five days, application of Vetramil ointment was started.



WEEK 1



DAY 1



WEEK 3



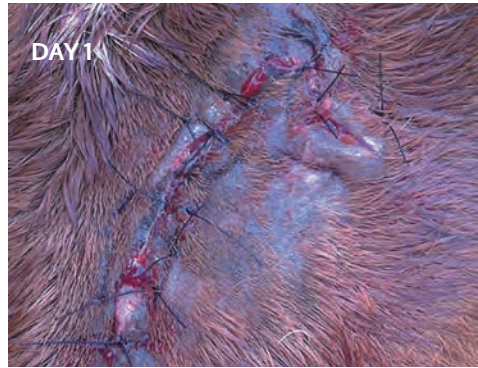
WEEK 4



## Treatment of a horse's forehead injury

This four-year-old horse had a large forehead wound by hitting the stable door. The wound was cleaned and stitched.

Application of Vetramil was started on the first day. The wound could not be covered with a bandage and was difficult to keep clean. After ten days the stitches were successfully removed and despite the size of this wound, it was completely closed.



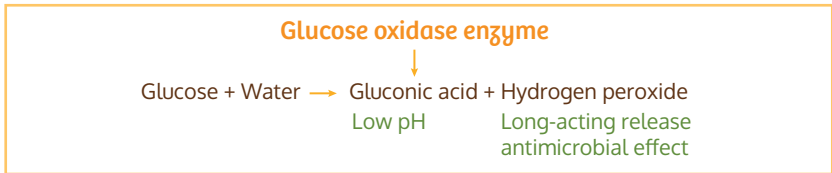
# How honey in Vetramil works?

## Honey sugars

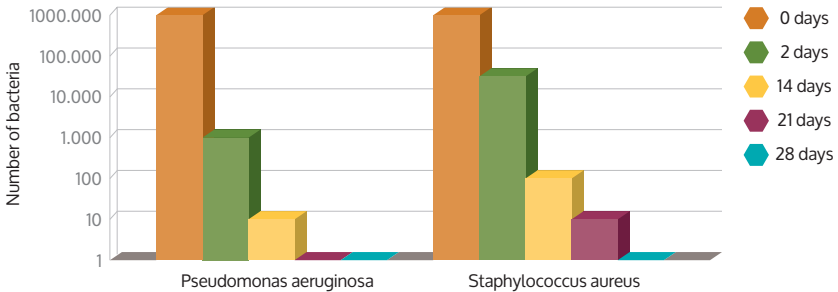
Honeybees collect nectar and nectar is concentrated into honey (80-85% sugar). The osmotic action of honey sugars is bacteriostatic and in the end bactericidal. At the wound site the sugar attracts wound exudate and creates a healing moist environment.

## Honey enzymes

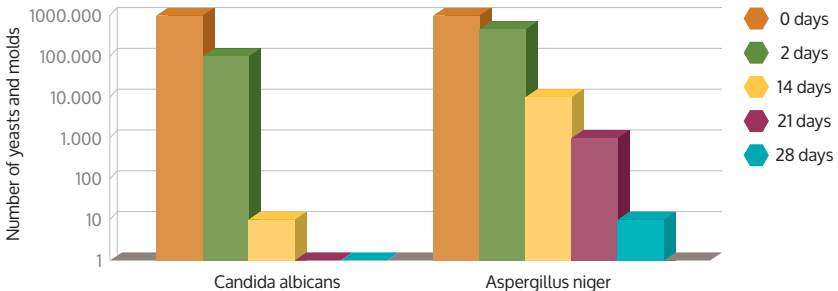
- Glucose oxidase enzyme is added to honey by honeybees
- The enzyme becomes active in diluted honey
- Honey glucose is converted into gluconic acid and hydrogen peroxide



## CHALLENGE TEST. BACTERIA



## CHALLENGE TEST. YEASTS AND MOLDS



# Vetramil history

Honey has been used for wound healing and skin treatments **since ancient times**. In modern times soldiers in World War I used honey to **prevent wound infections**. Later in the 20th Century medical grade honey became a **serious remedy for human wound healing** through extensive studies and a search for a non-antibiotic remedy to treat infected wounds and **minimize the spread of antimicrobial resistance**.

Dr. Tineke Creemers performed research on flower biology at Wageningen University for over 15 years before **Bfactory was founded in 2000** with Willem Bosma.

Vetramil honey ointment was launched 2005. The line of effective honey products under the **Vetramil brand has developed to include five different honey based products optimized for different uses**.

The line of Vetramil honey products is **sold in over 30 countries worldwide** and has experienced **outstandingly positive results** from both veterinarian and animal owners alike.



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