

Groundbreaking dressing that imitates the natural immune system

Faster wound healing and reduced need for antibiotics – these are two of the benefits of the new, innovative BactiDefend Dressing from Snøgg Animal Care. “This is a huge advance in animal wound care,” says Elisabeth Duker, Innovation Manager at Snøgg Animal Care.

An innovative combination of peptides and hydrogel is behind the new, sterile BactiDefend Dressing from Snøgg Animal Care. By imitating the body’s natural immune system, the dressing contributes to faster wound healing.

“This is one of the biggest and most revolutionary innovations I have seen in all the years I have worked with wound care,” says Elisabeth Duker, Innovation Manager at Snøgg Animal Care.



No leakage into the bloodstream

BactiDefend Dressing is a sterile hydrogel dressing with peptides which break down bacteria without leaking out into the bloodstream, while at the same time promoting wound healing by creating a moist wound environment.

The dressing both binds and neutralises the microorganisms in the wound by puncturing their membranes. What is unique about BactiDefend Dressing is that the peptides are bound to the hydrogel so that they remain active, thanks to a completely new technology that has been developed by researchers at Chalmers University of Technology,” says Elisabeth Duker.

It is not only the wound healing that is faster and more effective, there are even more benefits to the dressing. Thanks to its ability to neutralise bacteria and microorganisms, veterinarians can reduce the prescription of antibiotics both after planned operations and when the animal has wounds caused by trauma.

“This means that we can be part of the important fight against antibiotic resistance,” says Elisabeth Duker and adds that they have seen in studies that the dressing also works effectively on multi-resistant bacteria.

Long and intensive research

BactiDefend Dressing is the result of long and intensive research at Chalmers University of Technology in Gothenburg. It started back in 2016 when the two doctoral students Saba Atefyekta and Anand Kumar Rajasehkar, together with their professor developed a method for combining powerful peptides with a stabilising amphiphilic hydrogel. This groundbreaking technology eventually led to the founding of the company Amferia in 2018.

“This type of peptide has proved to be very potent in wound care, but it has been a challenge to use them in clinical environments due to their low stability. But in combination with our amphiphilic hydrogel, after five years of research, we have managed to create a product that works beyond expectations,” says Saba Atefyekta, who currently leads sales and business development initiatives within human and animal health sectors at Amferia.



Appreciated by veterinarians

Amferia has worked closely with several veterinary clinics during the development of BactiDefend Dressing and there has been a positive response.

“The feedback from veterinarians has been overwhelming. They have seen a huge improvement quickly, both in terms of reducing the bacterial load and promoting wound healing. Many also say they appreciate using peptides that imitate the innate immune system,” says Saba Atefyekta.

Now is the time to bring the unique product to the market in conjunction with Snögg Animal Care. BactiDefend Dressing will be launched in autumn 2024 together with two more new compresses from Snögg Animal Care. All three have been developed to be used together with the classic bestseller, Adhesive Foam Bandage.

“BactiDefend Dressing is the finishing touch to our wound care portfolio. At Snögg Animal Care, we are very happy to be able to offer such an innovative and important wound care product to veterinarians and animals,” says Elisabeth Duker.