

# Antimicrobial resistance

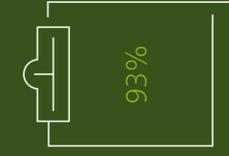
and how to manage it



# True North - the path to least resistance



## The Facts



Majority of medically important antibiotics are used in animals

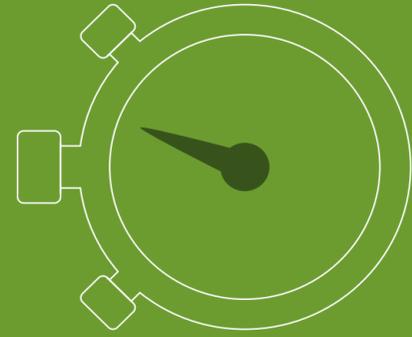
93% of academic papers agree that we need to limit antibiotic use in animals

Average consumption ranges between 45-172 mg/kg of animal

75% of antimicrobials used in animals are deemed medically important for humans



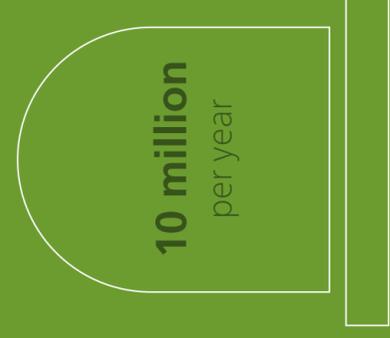
## The impact by 2050



One person will die every 3 sec. due to antimicrobial resistance



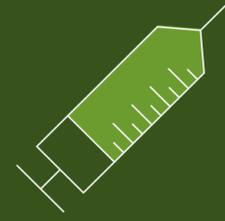
Global GDP cost will be more in US dollars than there are synapses in the human brain



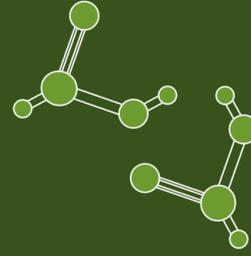
AMR will be the leading cause of death



## The Solutions



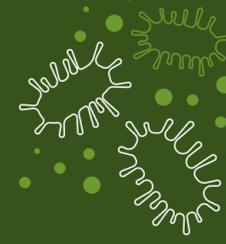
Vaccination can reduce the risk of disease



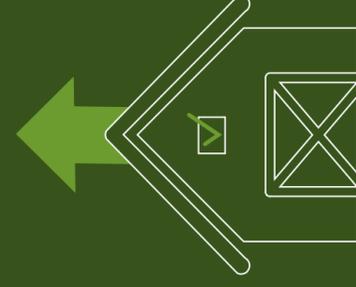
Organic acids reduce bacterial loads



Improved rapid diagnostics make sure the right antibiotics are used for treatment



Probiotics reduce harmful bacteria through competitive exclusion

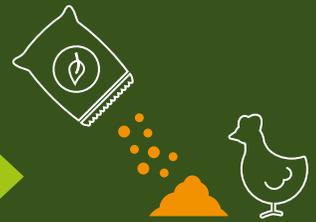
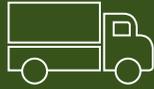
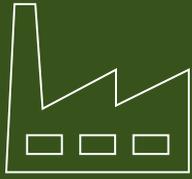


Improved farm hygiene and management can prevent infections



Improved feed hygiene reduces pathogenic pressure

## Protect your feed



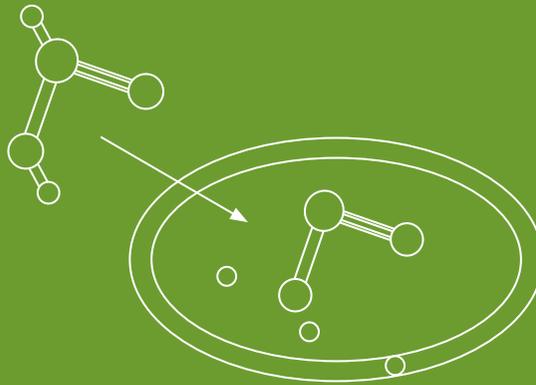
During feed production products like ProPhorce™ Feed Hygiene or ProSid™ MI 700 reduce microbial contamination and inhibit molds

ProPhorce™ Feed Hygiene prevents recontamination from the feed mill to the animal

The animal should receive the highest quality feed with the lowest microbial load

## Antimicrobial effects

The antimicrobial effect of organic acids are due to their low molecular weight and lack of polarity. This allows them to penetrate the cell wall where they release their H<sup>+</sup> ion, lower the pH in the cell and disturbing the cells DNA and ability to replicate



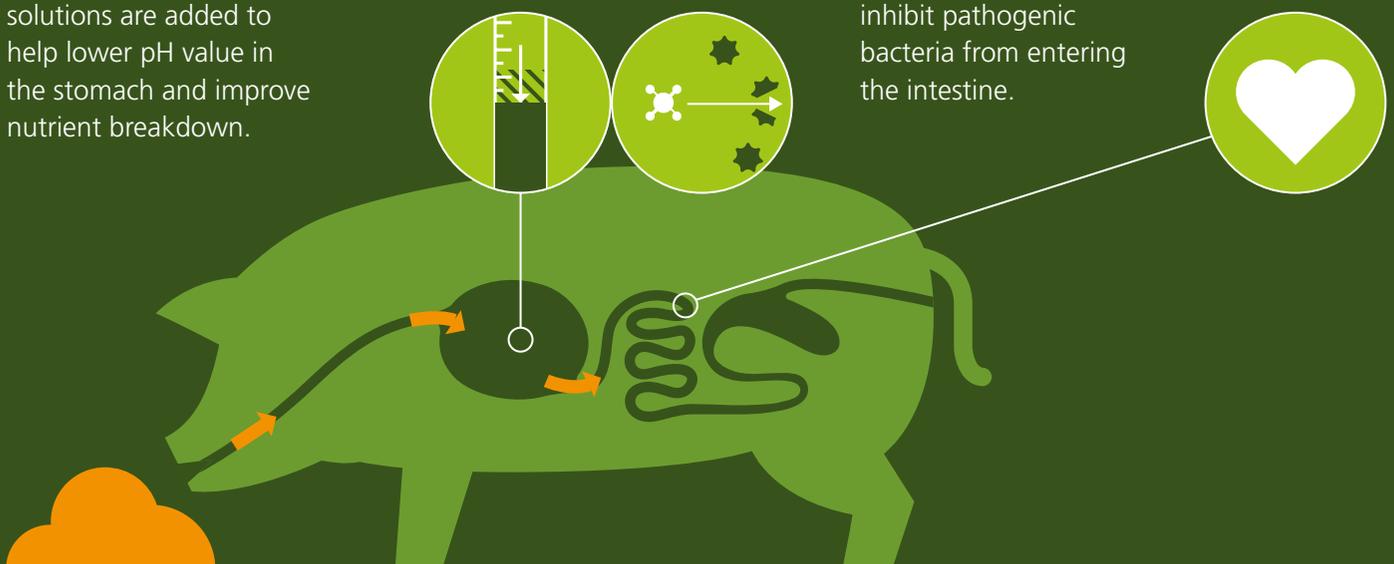
### Did you know?

100 tons of ProPhorce™ SR can be fed to 10 mill, broilers that could be eaten by 15 million people

## Protect the animal

Formic-lactic acid based solutions are added to help lower pH value in the stomach and improve nutrient breakdown.

These solutions also inhibit pathogenic bacteria from entering the intestine.



# Devoted to your success

## **Specialist**

Perstorp Feed & Food is a global specialist in acid-based solutions with more than 50 years of experience. We know the importance of gut health and feed preservation for the livestock industry. Therefore, we have focused our skills, knowledge and resources on finding new ways to improve gut health and preservation. Thanks to this dedication, we are the first in developing next generation solutions that exceed your expectations.

## **Swedish multinational**

As Perstorp Feed & Food, we belong to the Swedish multinational Perstorp Group – a basic producer of organic acids such as propionic acid, formic acid and butyric acid. As a part of the Perstorp Group, we can take advantage of an extensive amount of knowledge accumulated since 1881, joint R&D facilities and our own production facilities in Europe, North America and Asia. As Feed & Food we operate independently, flexibly and close to our markets.

## **Agricultural lifeline**

Our highly knowledgeable and motivated team has an agricultural lifeline. Being in close contact with farmers and the feed industry drives our dedication in adding value to your business. We challenge ourselves constantly to enhance gut health and preservation for better performance, feed efficiency and daily weight gain: for your business.

## **Perstorp Feed & Food**

Dedicated specialist in gut health and preservation. Devoted to success.

For more information, visit [perstorp.com](https://perstorp.com)