SUSTAINABLE DISINFECTION IN AGRICULTURE

CHICKENS



THE FUTURE OF DISINFECTION



"Water is the most important part of animal feedstuffs, and having fresh, clean water is the be-all and end-all of animal farming.

Having our own well is sort of a low-cost insurance policy for our company.

Magnus Bertilsson, Asketorps Gård, Skövde

ABOUT ANOLYTECH

Since 2005, Anolytech has developed a sustainable and environmentally friendly disinfection technology based on water, salt and electricity which eliminates the need for disinfection with harmful chemicals. Anolytech's system produces a pH-optimised hypochlorous acid, AnoDes, that kills bacteria, viruses, spores, mould and fungi effectively and stops the growth of biofilm in water. AnoDes is produced directly in a system rented from Anolytech that is installed at the customer site. The sustainable circular production process ensures that the customer has a reliable supply of disinfectant while also minimising the handling of chemicals and unnecessary packaging and the transport of hazardous goods.

AnoDes is EU-certified and not only disinfects drinking water and room areas, but also provides a gentler (EN 1500), more effective alternative to alcohol-based hand sanitisers. Anolytech now supplies disinfectant solutions to the farming sector and food industry, hotels and properties, plus the public sector and healthcare providers in Sweden and Europe.





Ensuring chickens have access to bacteria-free water 24 hours a day

Bacteria-free drinking water is essential for animal health and continuous production, but keeping the water free of dangerous microorganisms and biofilm can often be a challenge. Even if the incoming water is high-quality, the chickens themselves can introduce new bacteria into it, meaning many hours are spent regularly disinfecting the water system (often using chemicals harmful to the environment). These measures solve the issue for a short period of time, but the bacteria quickly start to grow and the whole system needs disinfecting again in no time. This issue can be avoided by using Anolytech's environmentally friendly water disinfection system.

FOCUS ON PREVENTIVE ANIMAL HEALTH

Even if drinking water is high-quality when it comes in, there is a risk of the quality dropping as it makes its way around the barn. If water becomes contaminated with bacteria, it can make chickens ill and even reduce their ability to take nourishment from their feed.

Contaminated water affects the entire food ration and can mean that high-quality (often expensive) feed does not have the right conditions to be able to fatten up chickens. If the levels of bacteria in the water vary over time, it can also become difficult to estimate how much feed to give them. Keeping the water constantly bacteria-free improves the chickens' growth and reduces differences between batches.

All in all, bacteria-free water is a basic condition for stable, cost-effective production. Analytech's environmentally friendly disinfection system contributes to good animal health by disinfecting water continually for preventive purposes.

EFFECTIVE AGAINST BACTERIA AND BIOFILM

The unique Analytech system ensures animals have access to bacteria-free water by continuously releasing antimicrobial AnaDes into their drinking water pipes.

Even in small doses, AnoDes kills bacteria, viruses, spores, mould and fungi effectively and stops the growth of biofilm that otherwise risks forming in the water system and providing a fertile environment in which bacteria can thrive. And as AnoDes is produced using nothing more than water, salt and electricity, it does not contain any hazardous chemicals.

This means AnoDes is both environmentally friendly and totally harmless to animals. The chickens' own bacterial flora in their stomachs and digestive systems are unaffected by the small doses of AnoDes released into the water. AnoDes is produced on site directly in a system that you rent from Anolytech. This is installed on site and connects to the water supply.

CONTAMINATION OCCURS WHERE CHICKENS DRINK

When checking water quality, samples are generally taken at the start of the water system where the drinking water comes in. These tests often show no issues with the water, but our research has shown that most of the bacteria found in animal drinking waters enter later on in the system, often by the animals themselves. This might be, for example, gut bacteria or bacteria from a sick animal.

Common drinking areas therefore become a risky source of infection, especially coops for the youngest chicks as the room temperature (and therefore water temperature) in them is high. When chickens peck at the ground, they can pick up bacteria which they then transfer to the nipples where they drink from. Other chickens then come and drink from the same place. Despite the pressure in the water pipes, the infection is still able to pass to other parts of the water system and possibly even contaminate the water for other animals on the farm.

PREVENTIVE PROTECTION AND LONG-TERM EFFECT

Anolytech's system differs from traditional methods where disinfection takes place only after problems have arisen and pipes and water nipples have to be flushed clean, often using harmful chemicals. Such initiatives eliminate the symptoms at the time, but they fail to resolve the fundamental problem that bacteria can enter the water system at any time.

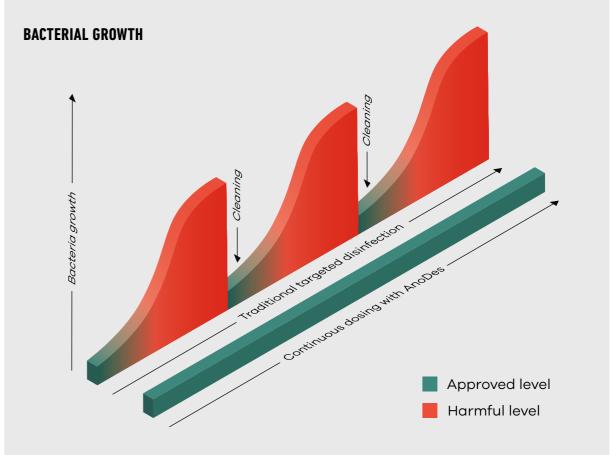
With an Anolytech system, the problem is eliminated entirely as small quantities of AnoDes are a constant presence in the water pipes, killing bacteria. AnoDes also acts as a protective barrier if the incoming water were to be temporarily contaminated.

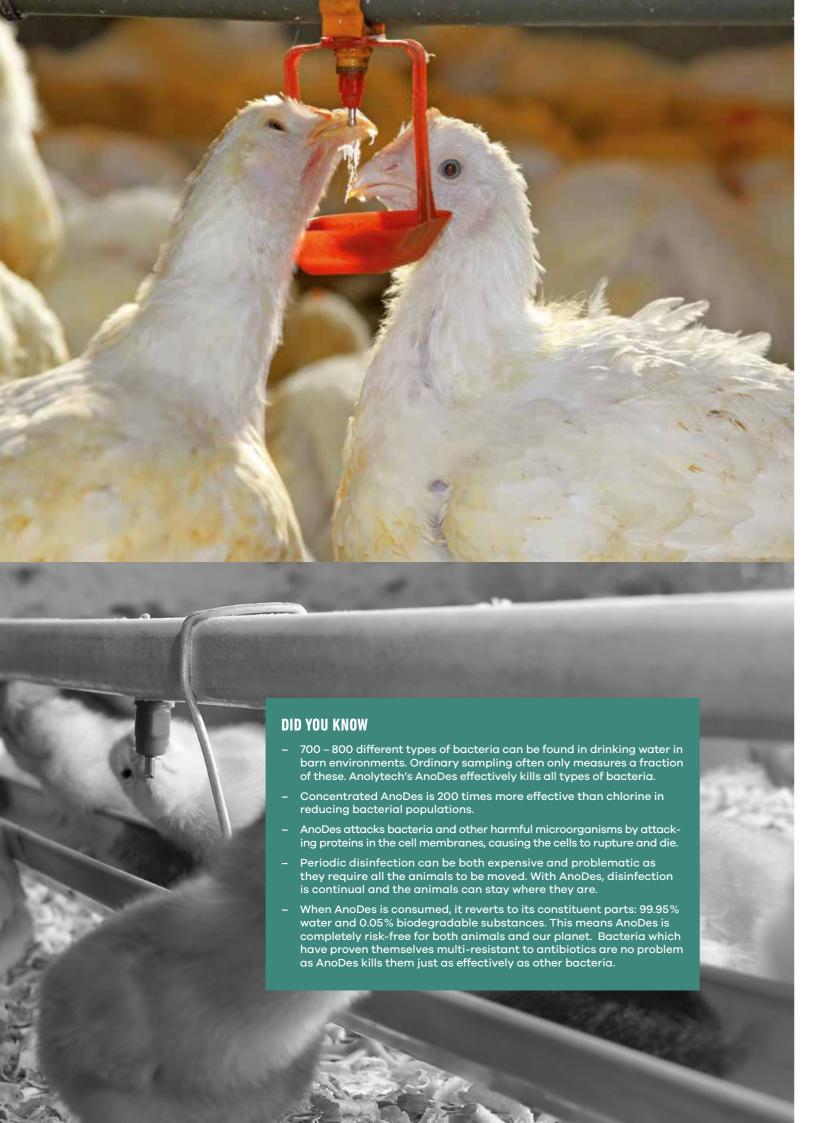
Dirty surface water from a well or deterioration of the quality of incoming water can have serious consequences. AnoDes then provides preventive protection so that bacteria are unable to grow.











WHY ANODES IS SO EFFECTIVE

AnoDes is a pH-optimized hypochlorous acid produced on-site, consisting only of water and table salt (NaCl). This carefully controlled pH level is what makes AnoDes such an effective disinfectant. No other disinfection solution on the market can control the pH value of the water with the same precision, which means we can guarantee effective disinfection that will not harm animals, no matter what the quality of the incoming drinking water supply.

RELIABLE ON-SITE DISINFECTION

Analytech's system is based on AnoDes being produced on site in the barn. This means that disinfection can always be deployed and you do not need to handle hazardous chemicals or deal with unnecessary packaging. The system consists of an easy-to-install wall-mounted control unit, salt holder and blending module. All you need is a power supply and connection to the water and wastewater systems. Once commissioned, the system only needs to be topped up with salt tablets: everything else is automated in a process that continuously releases small quantities of AnoDes into the drinking water system. The system design and simple operation guarantee reliable production of AnoDes, while the residual products are so harmless they can be discharged together with wastewater.

RENTAL CONTRACT WITH LOW OPERATING COSTS

The production system is rented from Anolytech, and the cost is based on water consumption in the barn. The system is very efficient in terms of energy and salt, which ensures low operating costs over time.

The system is installed by our service technicians at a suitable location in the barn. The whole system is supplied as a complete package that includes installation, servicing and spare parts – plus a Performance Warranty.

APPROVED FOR ORGANIC PRODUCTION

The EU's expert group for organic production, EGTOP, approves the use of 'electrolysed water' in organic production settings where the disinfectant solution is produced on-site – just like AnoDes is.

AnoDes meets applicable European standards for disinfectants and is approved in accordance with Article 95 of the EU Biocidal Products Regulation.

EUROPEAN STANDARDS AND CERTIFICATES

Use the QR code to view and download current directive documents and certificates.

https://anolytech.com/certificate/





PERFORMANCE WARRANTY

Anolytech's Performance Warranty guarantees that the system will work throughout the entire rental period. Over the years, our employees have released AnoDes into systems belonging to hundreds of businesses, and we guarantee your system will produce the right amount of AnoDes at the right strength, and that the right dose will be released into the animals' drinking water. We maintain and service our systems at regular intervals and notify users when it is time to order more consumables. We are always on hand, and monitor and continuously control systems and functions.

Anolytech





MINOR INVESTMENT; MAJOR EFFECT

Bacteria-free drinking water is essential for animal health and a company's economic viability, but having to disinfect systems regularly requires a great deal of time and effort. Analytech's environmentally friendly disinfection systems make that a thing of the past.

The system produces a pH-optimised hypochlorous acid, AnoDes, which is continuously released in small doses into the water effectively killing bacteria and preventing the growth of biofilm.

Installing Anolytech's system is also fast and easy: a machine is connected directly into your water system and disinfection is completely automatic (apart from the quick and easy step of replacing the consumables every now and again). All servicing is included, and we offer a Performance Warranty.

Contact us today for a no-obligation presentation to find out more about Anolytech's environmentally friendly disinfection system.

