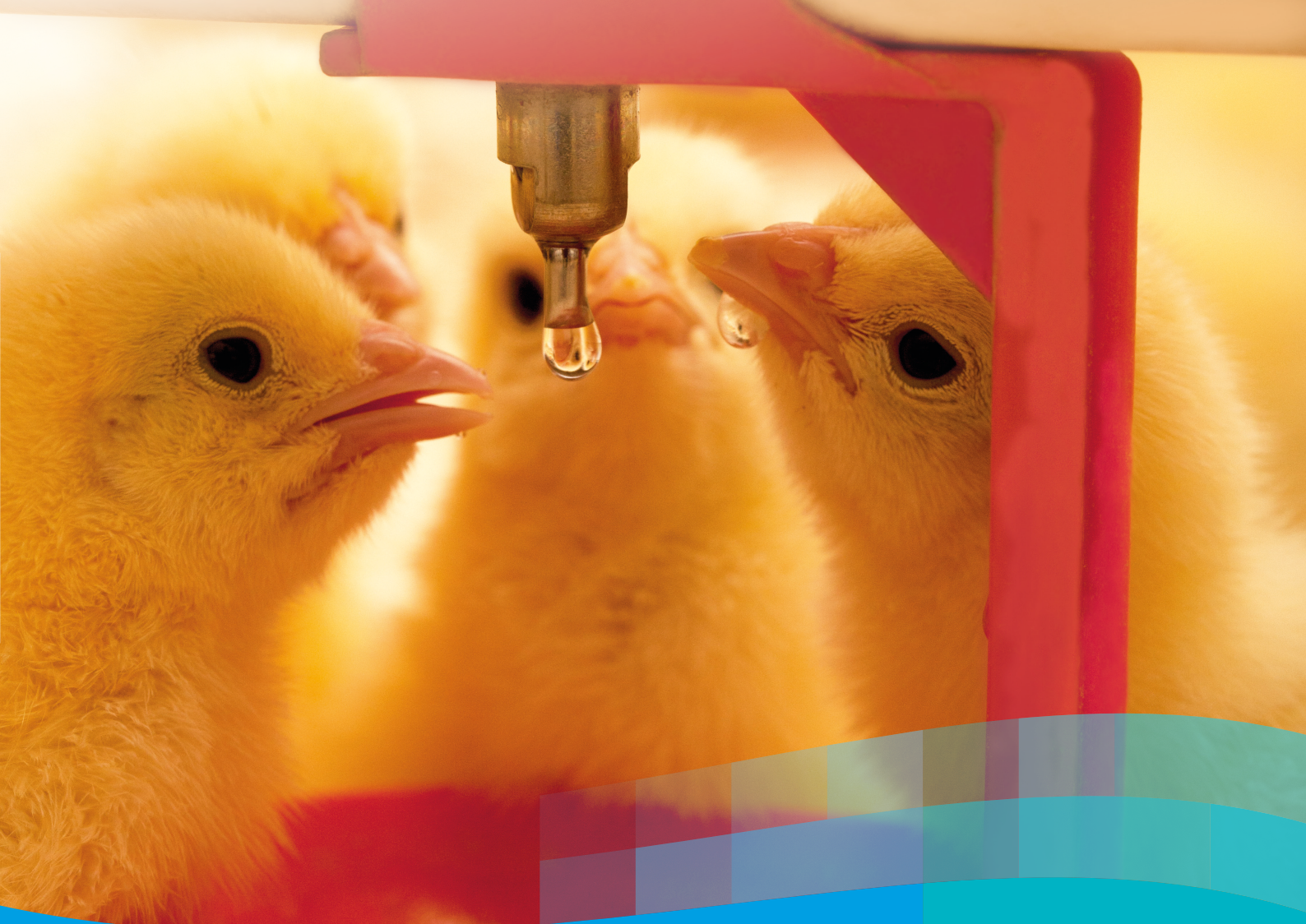
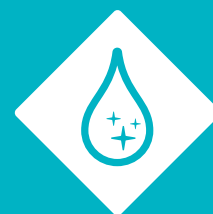


Aqua-clean®



Powerful disinfectant for a hygienic clean result

- ◆ Removal of pollution and biofilm in drinking systems
- ◆ Optimal effect of medication, vaccines and additives
- ◆ Lower corrosivity than other disinfectants
- ◆ Environment friendly: dissolves in water and oxygen



Hygiene



Importance of clean drinking water

The health of animals is largely determined by water hygiene, a fact that is often overlooked. Drinking systems need regular cleaning, otherwise they will become polluted which stimulates growth of bacteria.

Contamination in drinking water is often not visible, but can result in health issues and poor performance levels. Especially with young animals, when temperatures are high and the water flow is low, there is a high risk of bacterial growth. Pollution of drinking systems is caused by deposits like iron, manganese and calcium. But also an addition of medicines, vaccines, and additives can leave residues in the system. Aqua-clean ensures hygienic water and a clean drinking system.

What is Aqua-clean®?

Aqua-clean cleans and disinfects drinking water systems. Aqua-clean is based on hydrogen peroxide enriched with a special complex containing silver. This combination ensures the heavy cleaning needed for drinking systems.

Hydrogen peroxide

- ◆ Effervescent cleaner
- ◆ Penetrates and breaks up biofilm
- ◆ Antibacterial / disinfects water

Stabilizer / silver complex

- ◆ Prolongs reaction of hydrogen peroxide with biofilm
- ◆ Lower corrosiveness compared to other cleaning agents

When to use?

- ◆ Pollution in drinking system
- ◆ Prevention of pollution in drinking system.
- ◆ Before and after addition of vaccines, medication, and additives

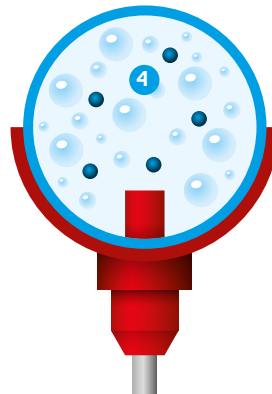
Mode of action

When Aqua-clean comes in contact with dirt in the drinking water system, it will be activated and bubbles of oxygen will brush dirt away. This effervescent reaction of oxygen with organic pollution needs to be a stable but strong process, as otherwise contamination will remain in the system. Aqua-clean is specifically designed to clean out all persistent contamination and is the most powerful in its kind.

Treated with Chlorine / Acid



Treated with Aqua-clean®



- 1 Pollution
- 2 Chlorine / Acid removes only free bacteria
- 3 Bacteria still present after cleaning with Chlorine / Acid
- 4 Active oxygen bubbles and a clean system

Figure 1: Schematic representation of pipeline when treated with Chlorine/Acid and Aqua-clean



Trial set up

In this trial the development of various bacteria in drinking water was measured with no drinking water addition, standard hydrogen peroxide or Aqua-clean. Below in figure 2 you can see the growth of bacteria after a period of 72 hours.

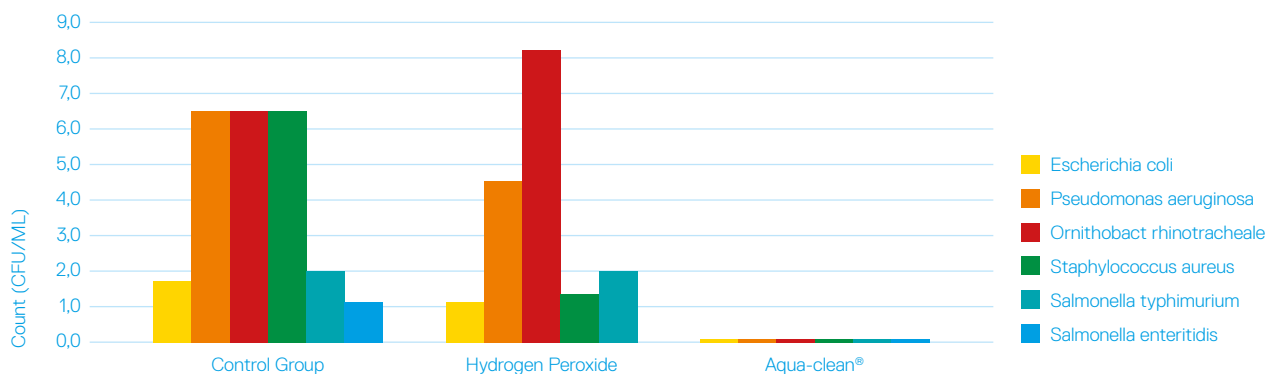


Figure 2: Growth of pathogens in drinking water when using Aqua-clean, Hydrogen peroxide or no product

Conclusion

Aqua-clean prevents bacteria to grow by removing the source (biofilm) of growth for bacteria.

Trial set up

In this test several cleaning agents were compared for corrosiveness on iron and zinc. The results below indicate the corrosiveness after a contact time of 72 hours measured in mg/l oxidation of iron and zinc.

	Iron	Zinc
Aqua-clean®	110 mg/l	99 mg/l
Chlorine	610 mg/l	1200 mg/l
Hydrogen Peroxide	<2000 mg/l	1100 mg/l
Hydrogen Peroxide + Peracetic Acid	8800 mg/l	2100 mg/l

Table 1: Level of corrosion on pipelines when using different cleaning products

Conclusion

Aqua-clean has the lowest corrosiveness compared to other water cleaning agents.



Powerful disinfectant for a hygienic clean result

- ◆ Removal of pollution and biofilm in drinking systems
- ◆ No blocked drinking nipples or drinking lines
- ◆ Prevents and stops leaking of drinking nipples
- ◆ Hygienic water reduces the risk on bacterial contamination
- ◆ Optimal effect of medication, vaccines and additives through clean drinking systems
- ◆ Lower corrosivity than other disinfectants
- ◆ Environment friendly: dissolves in water and oxygen

Dosage

Cleaning a non-operating system:

First cleaning: 3% Aqua-clean®

Regular cleaning: 1% Aqua-clean®

In case of heavy pollution increase dosage

Make sure there is adequate air release out of the system

Keep Aqua-clean® in the drinking system for a minimum of 12 hours

Maintain normal water pressure

After cleaning, flush thoroughly with fresh water

Packaging

4 litre can

10 litre can

20 litre can



Kanters Health Concept

Kanters provides total solutions to the farmer. To achieve this solutions are needed that make a positive contribution to the recovery of animal health and improve results. For all kinds of situations and health issues Kanters offers an extensive range of liquid nutritional supplements applied through drinking water. Our solutions are divided

into five functional groups. Within each functional group, product choice may vary depending on the species, the type of animal, as well as farm specific situations. An optimal customized approach will be based on a specific farm analysis. You can always contact us to make arrangements for such an analysis.



Hygiene



Balance



Care



Gut health



Performance