



# Cid 2000

THE POWER OF O<sub>2</sub> AND ACIDIFICATION

- ▶ Removes biofilm
- ▶ Removes scale
- ▶ Disinfect the water
- ▶ Effective until the end of the line

## Removes biofilm

Biofilm inside water lines is considered as a serious obstacle to tackle in our livestock production. It consists of a mucus layer that attach firmly to the drinking water lines and forms a harbor for a lot of micro-organism where they can grow and multiply very easily.

- It can reduce the water flow and **block the drinking nipples**
- It is a continuous **source of contamination** for your animals
- It can **decrease the activity of administred medication, vaccines or other additives**

Cid 2000 consists of 20% **stabilized hydrogen peroxide (H<sub>2</sub>O<sub>2</sub>)** that dissolves in water into water (H<sub>2</sub>O) and oxygen (O<sub>2</sub>). The free gaseous oxygen will 'scrub' along the biofilm, releasing it and dissolving it.

## Removes scale

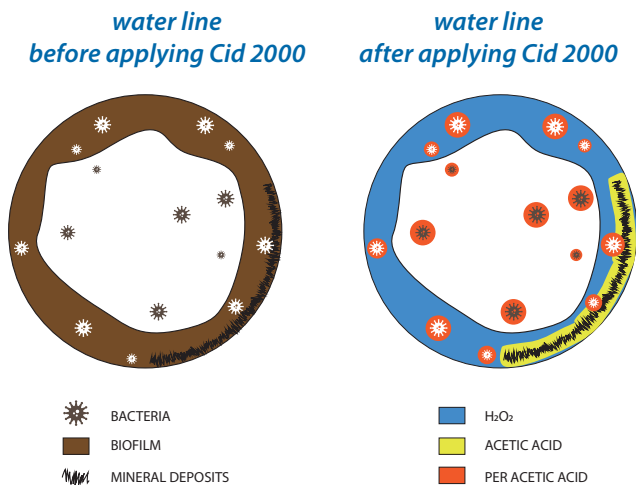
Minerals such as calcium (Ca) and magnesium (Mg) can also precipitate into the drinking water lines. These minerals form a solid layer of inorganic matter, also called scale, which is not easy to eliminate. Only acids remove this scale and prevents its re-deposition. Scale can equally block the nipples.



Cid 2000 includes two types of acids: **peracetic acid and acetic acid**. These acids dissolve the mineral deposits inside your drinking water lines. Scale is the ideal substrate for organic biofilm to attach and grow.

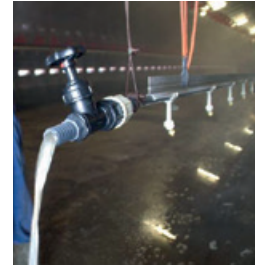
## Disinfect the water

Micro-organisms are everywhere in your drinking water lines and need to be attacked as well. **Peracetic acid** expands the disinfecting power of Cid 2000 and contribute to a lower infection pressure by reducing the bacterial load of the water.



## Cid 2000 reaches the end of the line

A product to clean and disinfect the drinking water lines of our animals needs to work through the entire line. Field trials concludes that the highest number of bacterial count is found at the end of the lines. That's also where the biofilm and scale build up the most and where the water flow is of ten at its lowest.



The European 'Chêne Vert' laboratory confirmed: "after 19 hours in contact with organic matter, at a dilution of 2 %, there was still > 80% of the O<sub>2</sub> available." This guarantees that the free O<sub>2</sub> from Cid 2000 will reach the end of your lines, when correctly applied.

## Cid 2000 application

### During sanitary stop

Application	Product	Dosage	Continue
	Cid 2000	2%	4-6 hours

Ideally, trigger all the nipples to be sure that the solution gets through the nipple. Flush abundantly afterwards.

### During the production cycle

Application	Product	Dosage	Continue
During production cycle to disinfect the drinking water <b>PT 5*</b>	Cid 2000	100 ml for 1000 L	During 2 to 3 days a week every other day or in delicate periods 3 to 4 consecutive days

**\*PT 5** Used for the disinfection of drinking water for both humans and animals.



Cid 2000 was evaluated by Dr. Susan Watkins for its ability to kill micro-organisms.

	Pre-Treatment Aerobic Bacteria (CFU/ml)	Aerobic Bacteria 4 Hours After Adding Products (CFU/ml)	Aerobic Bacteria 24 Hours After Adding Products (CFU/ml)
<b>Control</b>	10,400,000	12,750,000	24,650,00
<b>Cid 2000 - 2%</b>	8,000,000	105	<10