



BioProteXion
by CID LINES

Cid 2000

The power of O₂ and acidification combined.

- » removes biofilm
- » removes scale
- » equipment friendly
- » the greatest reduction in microbial presence



Increase your benefits by protecting your livestock

CID LINES

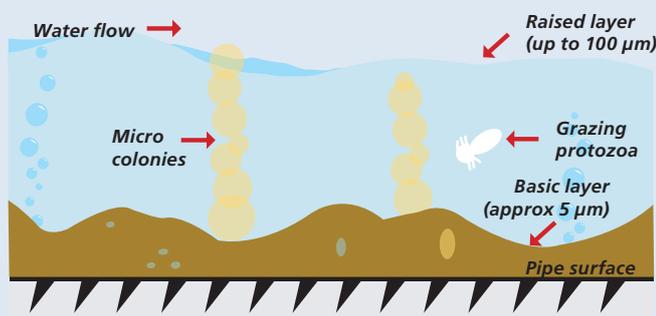
Believe in hygiene!

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Removes biofilm

Biofilm inside water lines is known as a polysaccharide layer (organic matter). It can block the nipples, reduce the pipe volume by 70 to 80% and hence reduce the water flow from the drinking system considerably. The biofilm can "harbour" a lot of micro organisms. It adversely affects vaccines and vitamins administered through the water. Simple high pressure flushing will not remove it. Chlorination neither. Oxygenating the lines will indeed.

Cid 2000 consists of 20 % stabilised hydrogen peroxide (H_2O_2) that dissolves in water into (H_2) and oxygen (O_2). The free gaseous oxygen will "scrub" along the biofilm, release it and dissolve it.



Removes scale

Scale is a layer of inorganic matter. It is mostly consisting of calcium (Ca) and magnesium (Mg) deposits. Only acids will remove scale. Cid 2000 also consist of peroxy acetic acids and acetic acids.

Those organic acids will remove scale. Scale can equally block the nipples and reduce the water flow. Scale can also harbour micro organisms. A 2% dilution will remove the scale in 12-24 hrs contact time.

Reaches the end of the line

Field trials from Dr. Susan Watkins show that the highest number of CFU's is found at the end of the line. That's also where the biofilm (and scale build up) are often the biggest. That's also where the water flow is often at it's lowest (where the nipples are most clogged).

The European "Chêne Vert" Laboratory concludes: "after 19 hours, at a 2 % dilution, in contact with organic matter, there was still > 80 % of the O_2 available". This guarantees that the free O_2 from Cid 2000 will reach the end of the line, when correctly applied.

Cid 2000™ application

During down time: administer a 2% dilution through a medicator and leave it in the lines for 4-6 hrs. Ideally, trigger the nipples for one second (per 3 meter or 10' section) so the solution can get through the nipple. Flush abundantly afterwards.

For acidification and decontamination of the drinking water: use Cid 2000 at a dilution of 300-400 ml for 1000 l of drinking water during 2 to 3 days per week every other day, or in delicate periods 3 to 4 consecutive days.



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