



EnviroCare Teat

by EnviroSystems



Ready to use, naturally derived broad spectrum antimicrobial teat dip and spray, which leaves the skin soft and nourished.

“ Moving to EnviroCare Teat was a big change from iodine teat dips. We use two teat cups of EnviroCare Teat, one for pre-dip and one for post-dip. Previously, we'd occasionally have damaged teats and needed to use udder cream, but since the change we haven't needed to as the teat condition is so good. ”

**Roger Ridgway,
Pembrokeshire**



CERTIFIED
EN1656





EnviroCare^{Teat}

by EnviroSystems

Benefits

Certified EN1656 veterinary bactericidal activity

Proven activity against *E. coli*, *Staph aureus* and *Strep uberis*

Contains a high level of emollients which prioritises teat health and condition

Ready to use can be used for both pre and post milking

Bright blue marking readily identifies dipped teats

Background to Teat Health

Mammals have evolved over millions of years to provide their young with milk, and developed highly effective systems to ensure bacterial infection remains low. This includes an impenetrable skin barrier over the teat surface to prevent bacteria entering the body and a complex immune response to prevent any that do from spreading.



However, domestication of cows in the dairy industry puts these natural systems under greater pressure. Using harsh chemical teat cleaners (such as iodine, chlorhexidine, metal sulfates or formalin) that prioritise killing bacteria, can cause irritation and damage to this skin barrier. Once damaged, these cracks create entry points bacteria, putting the cow's immune system under more stress and results in higher somatic cell counts as a response. This means harsher treatments are used to kill the bacteria, resulting in further skin damage and the cycle continues.

EnviroCare Teat was designed differently, prioritising the natural defence mechanisms of the cows rather than working against them. We developed a teat cleaner that prioritises healthy skin condition allowing it to carry out its natural function. We can then treat the low level of residual bacteria that are restricted to the outside of the skin surface with less harsh chemicals, and prevent any further risk of skin damage and bacteria internalisation.

How does it work?

EnviroCare Teat uses a 3 phase approach to protect, clean and disinfect the teat surface to provide all round protection.

1. The human cosmetic grade emollient is at the forefront of our antimicrobial strategy. This draws water into the skin surface and traps it there, moisturising the skin and preventing it from drying out and cracking, thus preserving the impermeable barrier and stopping bacteria being internalised.
2. Naturally derived surfactants are then used to dissolve any dirt or fatty milk remnants, removing them from the teat end and exposing any bacteria that is residing on the skin surface.
3. Finally, the lactic acid, which is buffered to ensure efficacy across a range of environments, provides mild antimicrobial activity against the exposed pathogenic bacteria.

Combined, these 3 stages of activity protect, clean and disinfect the teat surface providing all round protection for dairy cows.

EnviroCare Teat products are designed around a deeper understanding of teat health.

EnviroCare Teat proof of activity

Alongside our EN1656 approval, we conducted our own research to investigate the killing time for EnviroCare Teat against *E.coli* and *Strep uberis* (*Staph aureus* was omitted due to human health concerns).

The growth curve below shows the exponential increase in bacteria numbers for untreated *E.coli* (red line) and *Strep uberis* (black line), measured by their cell density, over 3.5 hours, before reaching their maximum colony size.

However, when treated with EnviroCare Teat, the bacteria were unable to increase in numbers, with both the *E.coli* (blue) and *Strep uberis* (green) limited to their starting numbers, showing EnviroCare Teat's ability to instantly inhibit the growth of pathogenic bacteria.

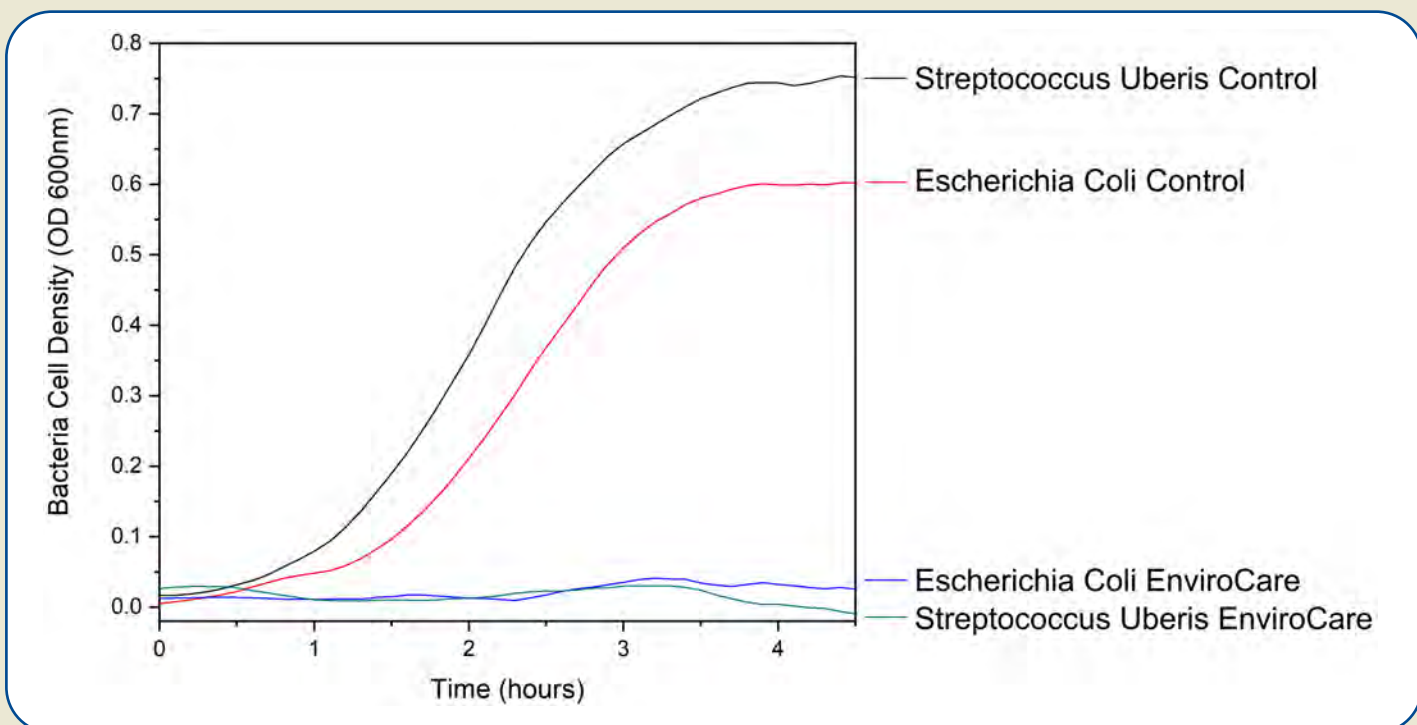


Figure 1. Growth of *S. uberis* and *E. coli* measured by an increase in optical density over 4.5 hours, and the inhibitory effect when treated with EnviroCare Teat.

Technical questions answered

Does EnviroCare Teat create a barrier on the teats?

Once applied post milking EnviroCare Teat dries to form a protective film on the teat which will remain until the next milking. This film contains thickening agents and emollients which trap in moisture and nourishes the skin underneath.

Does EnviroCare Teat have fly repellent properties?

Many animal cleaning products include common fly repellent compounds such as citronella. However, due to overuse, flies have linked these compounds to the animals and the effects have been reversed.

How long until I see an improvement in teat condition?

Improvements in teat condition can be seen in as little as seven days with daily applications.

Which bacteria is EnviroCare Teat proven against?

EnviroCare teat has been proven against *E.coli*, *Staph aureus* and *Strep uberis*.

What is the kill time of EnviroCare Teat?

Killing time: EnviroCare Teat has been proven to reduce bacteria by 99.999% within 5 minutes via the EN1656 approval process.



Order 1000L IBC'S and 200L drums online

envirosystems.co.uk

Orders can also be placed with area sales managers

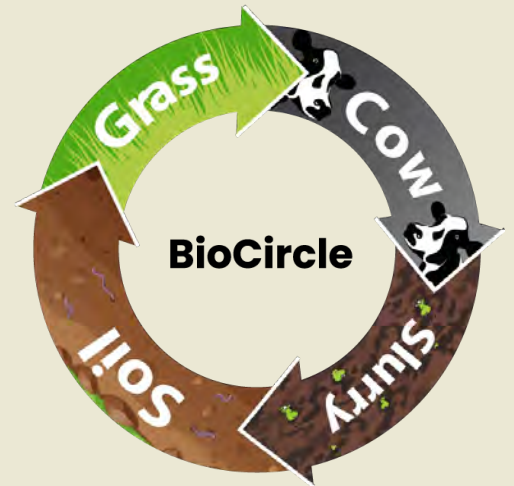
01772 860085



Supporting your farm's biocircle

Many of the chemicals used in traditional teat cleaners (iodine, chlorhexidine, formalin, metal ion sulphates) are classed as not only health hazards, but environmental hazards. This means even low levels can accumulate in watercourses resulting in toxicity to aquatic life, or they can get incorporated into your grass, making their way into both the livestock and human food chains.

EnviroCare products are made with natural ingredients that dilute down to non-bactericide levels with no long-term effects on other animals, plants, or the environment. This ensures any wash off from EnviroCare Teat does not kill the beneficial bacteria breaking down your slurry (SlurryBugs®), affect the production of valuable biogas in your AD systems or cause toxicity to aquatic life.



What farmers say



"We'd used iodine before and after using EnviroCare Teat the teats looked pinker and really healthy. It gives a nice spray through our Lely robots and good coverage. We don't get any teat orifice cracks and the skin condition is really good, for us healthy teats are the main thing. We want to make sure we're using as little chemicals as possible that could end up having an impact in the soil so EnviroCare Teat also ticks this box for us."

Marcus Hunt, at Buckwell Lodge in Leicestershire



View the video with Sam Hunt here



Products by EnviroSystems



EnviroSystems (UK) Ltd
Pasture View, Barton Cross Park,
Barton Lane, Preston
Lancashire, PR3 5AX



www.envirosystems.co.uk
01772 860085