SCUDO

ANTIBACTERIAL ELASTOMERS AND GASKET

ANTIBACTERIAL MILKING LINERS

FOR THE LIVESTOCK SECTOR

FORGET ABOUT BACTERIA, FROM NOW ON.

SCUDO FOR THE LIVESTOCK SECTOR

WHAT IS SCUDO

SCUDO is an innovative start-up, which produces a range of antibacterial elastomers that can be used to make milking liners and much more.

HOW DOES SCUDO WORK

During the milking process, colonies of bacteria responsible for mastitis infection grow on the surface of rubbers and silicone liners, increasing the risk of infection being transmitted from a sick animal to an healthy one.

Thanks to its patented formula, SCUDO gives the liners the inner power to kill 99.9% of the bacteria responsible for mastitis, thus reducing the risk of infection.

With SCUDO, we aim at providing farmers with a new instrument to protect their animals from mastitis, to reduce the use of antibiotics and – at the same time – to maintain a sustainable economic system.

THE ADVANTAGES OF SCUDO

Fewer mastitis, more protection, better production.

- The antimicrobial action destroys the bacteria related to the mastitis infection
- 99.9% killing of bacteria
- Scientifically proven
- Fewer antibiotics against mastitis
- Patented technology
- Healthier livestock
- Lower expenses
- Better products

SCUDO IS ALSO A NEW TOOL TO ACHIEVE PAC OBJECTIVES.

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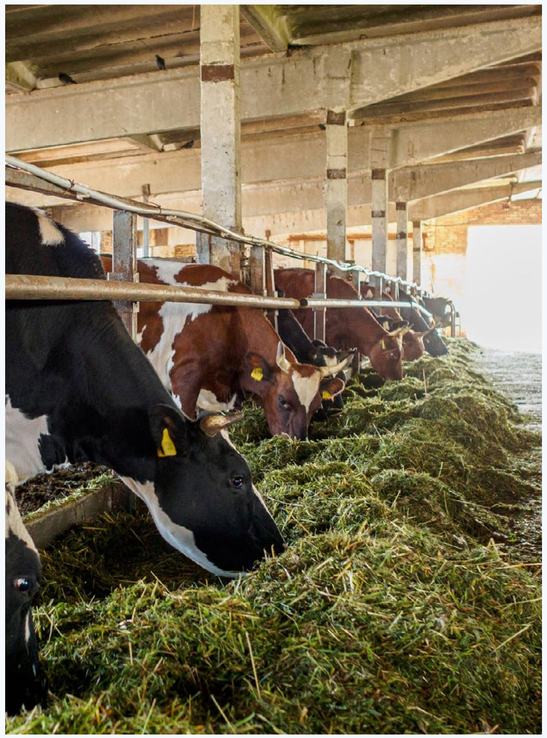
PROVEN EFFECTIVENESS

The effectiveness of SCUDO technology has been proven by accurate scientific tests carried out by the University of Milan – Department of Biomedical, Surgical and Dental Sciences, Section One Health – and the University of Bologna – Department of Biological, Geological and Environmental Sciences.



The test on the weakening of the microbial load was performed by using a 24 drain wells plate for cell cultures (Ø16 mm, volume 1mL).

In order to allow a better manipulation of the elastomer sheets, a rectangular section of 5cm x 8cm was taken as a sample and from this it was cut out a disc, which had suitable dimensions for its insertion into the above mentioned plate.

Using a sterile gripper, each disc was placed on the bottom of a drain well and then covered with 1 mL of each bacterial suspension.

For the SCUDO tests, the following bacterial species were used:

- Staphylococcus aureus ATCC 6538
- Streptococcus agalactiae ATCC 13813
- Escherichia coli ATCC 25922

The exposure times (time-point) used to get an indication of the possible dynamics of the weakening of the microbial load were:

– T0: contact with elastomers

– T1: 5 minutes post-touch (PT)

– T2: 30 minutes PT

– T3: 1 hour PT

– T5: 6 hours PT

– T6: 24 hours PT.

At each time-point, a portion of the bacterial suspension (50µL) was appropriately diluted in sterile physiological saline (NaCl 0.9%) and then seeded (50µL) in a solid bottom plate.

After incubation at 37°C for 24 hours, colonies were counted to obtain data regarding the starting load at each time-point.

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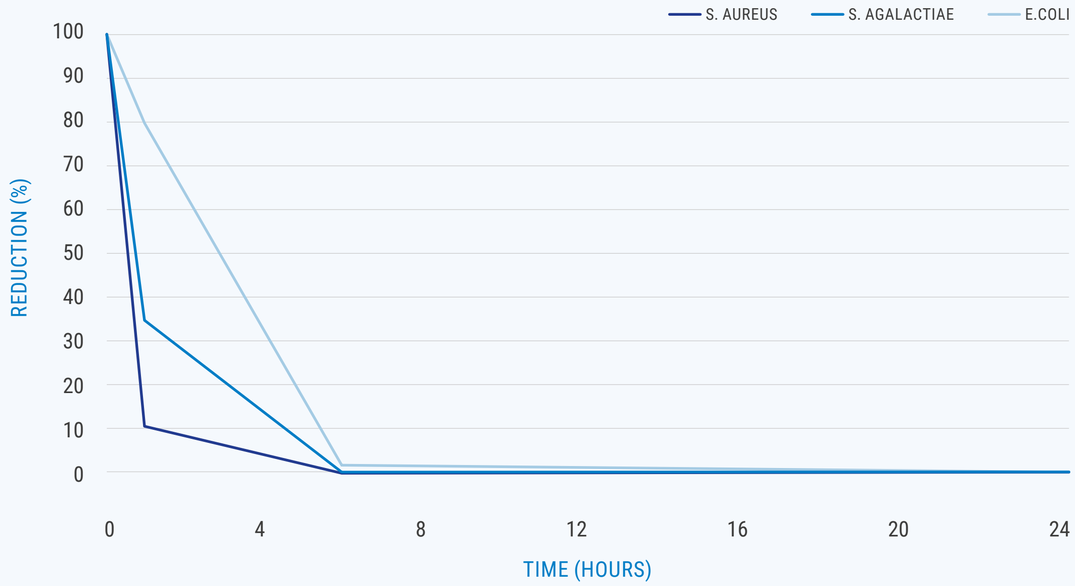
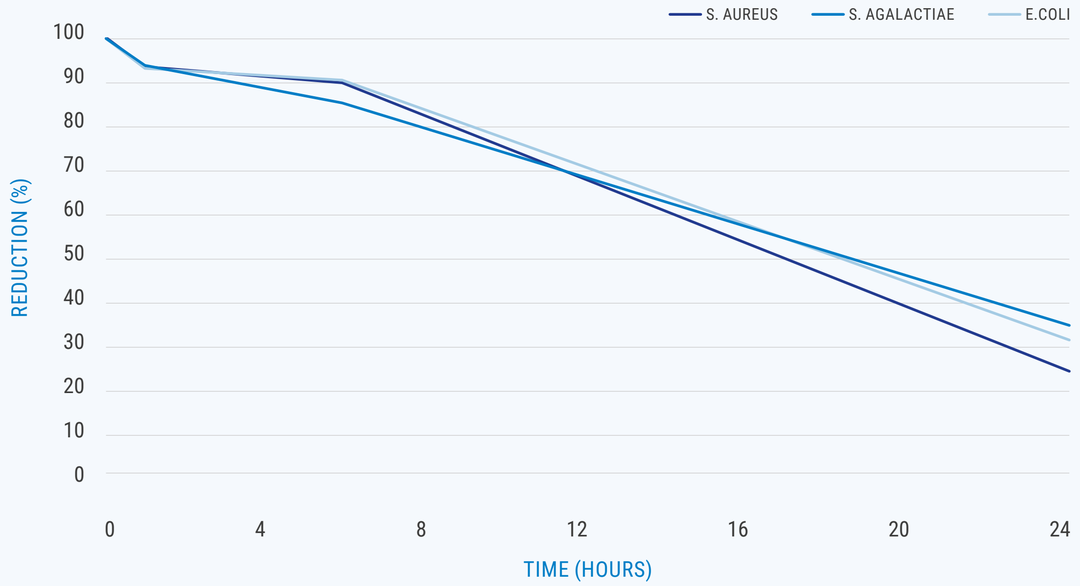
RUBBER LINERS WITH SCUDO COMPOUNDS



	REDUCTION (%)		
TIME (HOURS)	S. AUREUS	S. AGALACTIAE	E.COLI
0	100%	100%	100%
1	10%	35%	80%
6	0%	0%	2%
24	0%	0%	0%

RUBBER LINERS WITH TRADITIONAL COMPOUNDS



	REDUCTION (%)		
TIME (HOURS)	S. AUREUS	S. AGALACTIAE	E.COLI
0	100%	100%	100%
1	95%	96%	94%
6	90%	85%	92%
24	25%	34%	31%

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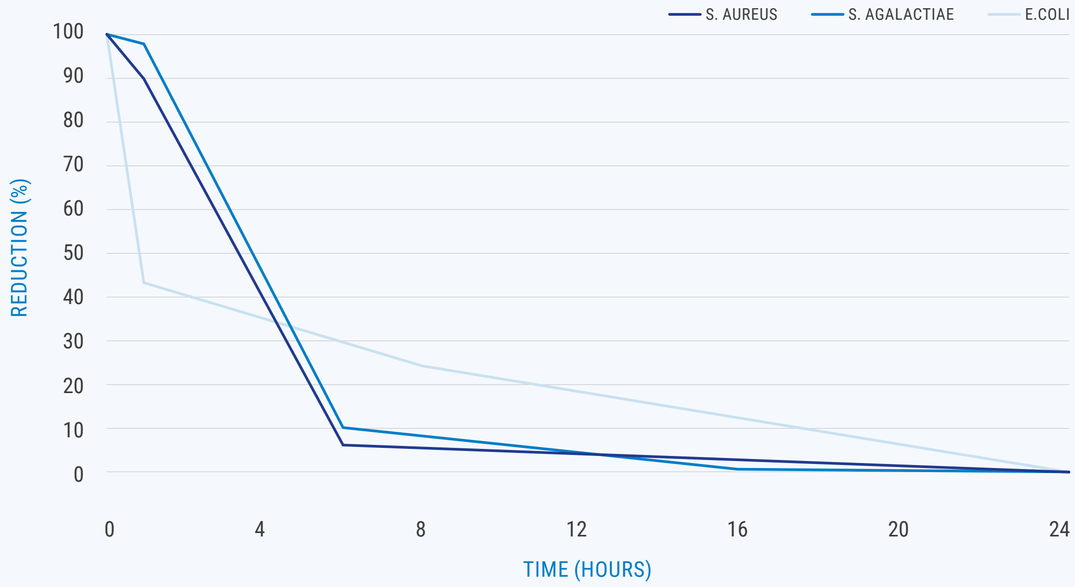
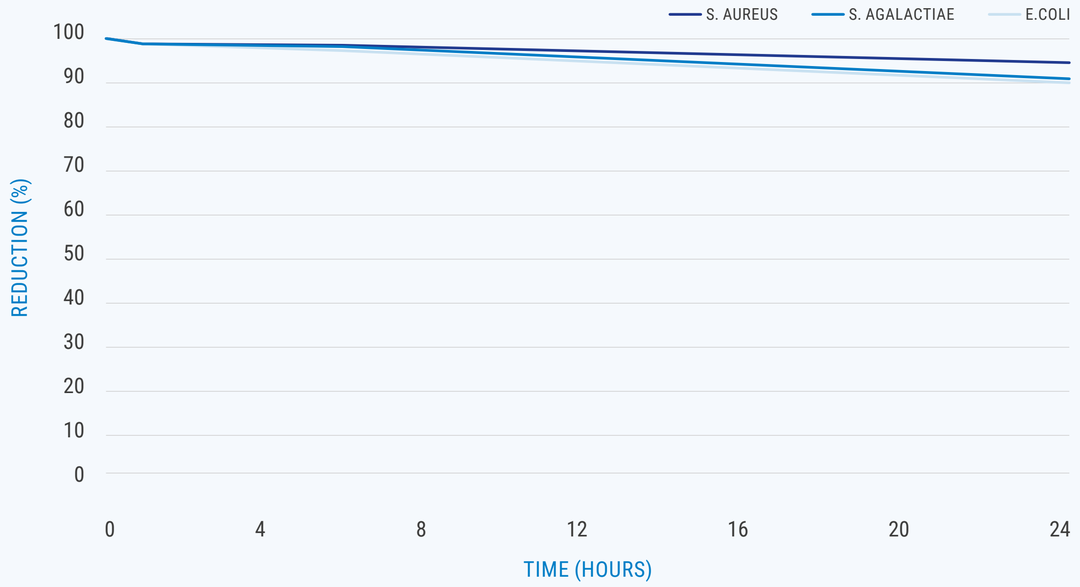
SILICONE LINERS WITH SCUDO COMPOUNDS



	REDUCTION (%)		
TIME (HOURS)	S. AUREUS	S. AGALACTIAE	E.COLI
0	100%	100%	100%
1	90%	98%	43%
6	5%	10%	25%
24	0%	0%	0%

SILICONE LINERS WITH TRADITIONAL COMPOUNDS



	REDUCTION (%)		
TIME (HOURS)	S. AUREUS	S. AGALACTIAE	E.COLI
0	100%	100%	100%
1	99%	98%	99%
6	98%	97%	97%
24	95%	91%	90%

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DISCOVER IN THE VIDEO THE RESULTS OF THE TESTS ON THE SCUDO COMPOUNDS

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CONTACT US

FOR MORE INFORMATION ON SCUDO PRODUCTS FOR THE LIVESTOCK SECTOR

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AGROMILK

AgroMilk is exclusive distributor of SCUDO.

SCUDO is an innovative start-up

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