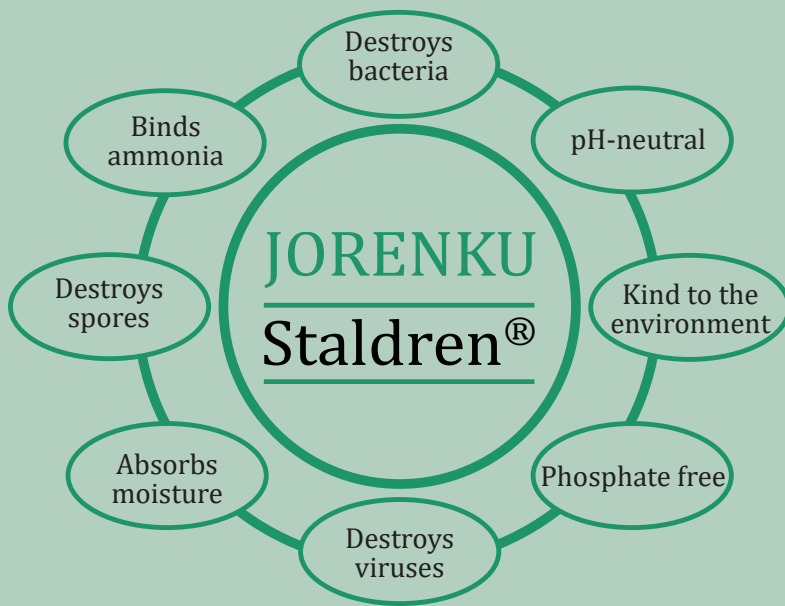

Staldren®

Staldren® for Pigs



JORENKU Staldren®



Staldren® is a hygiene solution in powder form, which has a very broad effect against moisture, smell, bacteria and fungal spores.

- Staldren® is a Danish product tested by recognised international laboratories.
- Staldren® is kind to the environment, and has a well-documented effect on the most common bacteria and fungi spores such as E-coli, salmonella, Campylobacter (see documentation on page 5 and 6).
- Staldren® is phosphate free and pH-neutral, meaning that it does not dissolve or loosen floors or pens, nor does it dry out the animal's thin skin, which can be susceptible to abrasions and cuts, that can lead to bacterial infection and disease. There is no need to use gloves when working with Staldren®.
- Staldren® binds ammonia to such a level, that both humans and animals can stay in the stable without obnoxious smell or shortness of breath.
- Staldren® absorbs moisture and is therefore particularly useful in high humidity.
- Staldren® disinfects and cleans the environment, reduces the level of infection, and therefore ensures healthier animals.
- Staldren® can be used for all animals and is a necessity for professional farmers.

When using Staldren® continuously, the best results are achieved by reducing the level of infection and thereby create a healthy environment for the benefit of both animals and humans.

Staldren® raises a minimum of dust, is easy to spread and gives a pleasant smell in the stable.

Staldren® is available in bags of 10 kg, 15 kg and 25 kg, as well as on pallets with 10, 20, 40, 45, 50 or 66 bags.

JORENKU Staldren® Equipment



Staldren® Ladle

The Staldren® Ladle is for manual spreading of Staldren® on smaller areas. The flat underside of the ladle makes it easy to shovel Staldren® directly from the bag. The double fixation of the handle makes the ladle stable.



Staldren® Spreading Bucket

The Staldren® Spreading Bucket is for manual spreading of Staldren®. It can contain approx. 5 kg and is suited for smaller stables. From the nozzles in the bottom you get a fine dosage by turning the bucket from side to side.



Staldren® Vink Spreader

The Staldren® Vink Spreader is a mill that can contain approx. 10 kg. The mill is powered by a battery-powered drill and carried around with a shoulder strap.



Staldren® Motor Blower

The Staldren® Motor Blower is petrol-powered, supplied with a regulator to control the amount of Staldren®, carried on the bag and used for dry and wet disinfection. It is very suitable for fog disinfection.



Staldren® Spreading Wagon

The Staldren® Spreading Wagon is a manually pushed battery-powered wagon. It contains 50 kg Staldren®. It is delivered complete with loading device.



Staldren® Projet

The Staldren® Projet is a spreader mounted on the back of a tractor. It consists of a painted steel frame and a polyethylene tank.



JORENKU Staldren®



Staldren® for pigs

- Staldren® prevents scour (diarrhoea)
- Staldren® secures a better growth and intake of milk
- Staldren® reduces the mortality
- Staldren® creates a better health in general in the piggery
- Staldren® reduces the bacteria level
- Staldren® prevents mastitis in the sow



When using Staldren® for pigs, the following is recommended:

Farrowing pen: Before farrowing spread Staldren® around the whole farrowing area. Use a handful (50-100g) per m². After farrowing use Staldren® for 3 consecutive days, then twice a week until weaning. Concentrate the application of Staldren® behind the sow and around the laying area (for piglets and sow), as well as on any other humid areas, as this is where the bacteria will grow.

Weaning: In the weaning unit, add Staldren® for 3 consecutive days, then twice a week. Be sure to cover the resting area as well as the humid areas within the pens.

Finisher housing: In the finisher section add Staldren® once or twice a week. This provides a better environment and reduces the level of infection.

Hospital pen: Add Staldren® daily on the entire floor area.

Breeding: In the unit for breeding sows and boars add a handful (50-100g) per m² of Staldren® all over the pen.

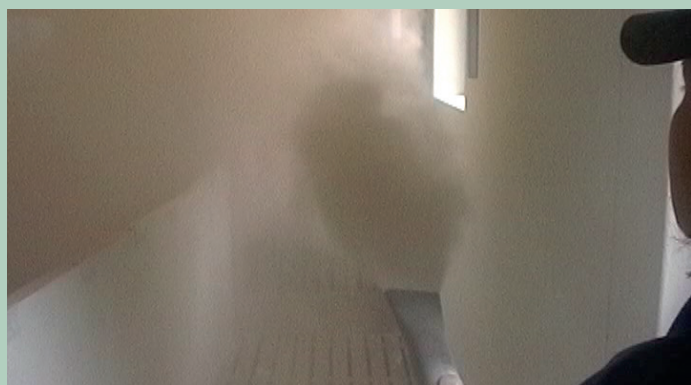
Isolation: In the isolation areas add Staldren® on the entire floor area, both before and after the arrival or removal of animals, to reduce the risk of infection.

Empty pens: Adding Staldren® with a blower unit will provide a good effect on viruses.

JORENKU Staldren[®]



Staldren[®] on the job



Attachment 9 to certificate of analysis Test nr. DKE 016078-06 and 0074-06

Method:

4g Staldren® is dissolved in a 5 ml physiological Natrium Chloride solution. The solution of Staldren® and a control without Staldren® (9 ml. physiological saltwater) has been inoculated with each of 1 ml bacteria or fungus suspension. The mixtures are kept aerob/anaerob/mikroaerofil depending on the atmospherically demands. The solutions are kept at room temperature. The amounts of bacteria are decided after 1 hour and 2 days.

Result	Staldren®		Control without Staldren®	
	1 hour	2 days	1 hour	2 days
E. coli 0157	<10 CFU/ml	<10 CFU/ml	140 Mio. CFU/ml	>200 Mio. CFU/ml
Aspergillus niger ATCC 16406	<100 CFU/ml	<100 CFU/ml	150.000 CFU/ml	500.000 CFU/ml
Clostridium perfringens ATCC 13124	<100 CFU/ml	<10 CFU/ml	20 Mio. CFU/ml	1,9 Mio. CFU/ml
Streptococcus uberis ATCC 9927	<10 CFU/ml	<10 CFU/ml	43 Mio. CFU/ml	1,9 Mio. CFU/ml
Salmonella typhimurium ATCC 25241	<10 CFU/ml	<10 CFU/ml	>10 Mia. CFU/ml	>1 Mia. CFU/ml
Staphylococcus aureus ATCC 25923	<10 CFU/ml	<10 CFU/ml	100 Mio. CFU/ml	1, 2 Mia. CFU/m
Streptococcus suis serovar nr. 7	<10 CFU/ml	10 CFU/ml	1.500 CFU/ml	6 Mio. CFU/ml
C ampylobacter jejuni ATCC 29428	<10 CFU/ml	<10 CFU/ml	6 Mio. CFU/ml	>10 Mio. CFU/ml
Klebsiella pneumoniae	40 CFU/ml	40 CFU/ml	4,2 Mio. CFU/ml	36 Mio. CFU/ml

JORENKU Staldren[®]



Rådgivning og analyseservice
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Test report

Method: Submersion – weighing before and after
Test date: 04-10-2013
Sampler: Ove Christoffersen (laboratory technician)

Ability to absorb:

A sample is taken by weighing. By extraction approx. 5g of Staldren[®] is weighed. The sample is submersed in water in a "tea bag". The sample has been in the water for 24 hours, after which it is hung for draining for 15 minutes. The sample is then weighed again. The absorbed weight is calculated by offsetting the amount of water in the bag and the weight of the bag is deducted.

The measurement has been performed three times.

Subject/test	Weight before submersion	Weight after submersion	% suction capability
Test 1	6.016 grams	20.951 grams	348 %
Test 2	5.099 grams	18.005 grams	353 %
Test 3	5.405 grams	18.952 grams	351 %

Conclusion:

Average of 3 measurements: the suction capability is approx. 3,5 times the net weight. The product absorbs a great deal of water.



GE/ Staldren Pig/ BRO/ 0224

JOENKU

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