

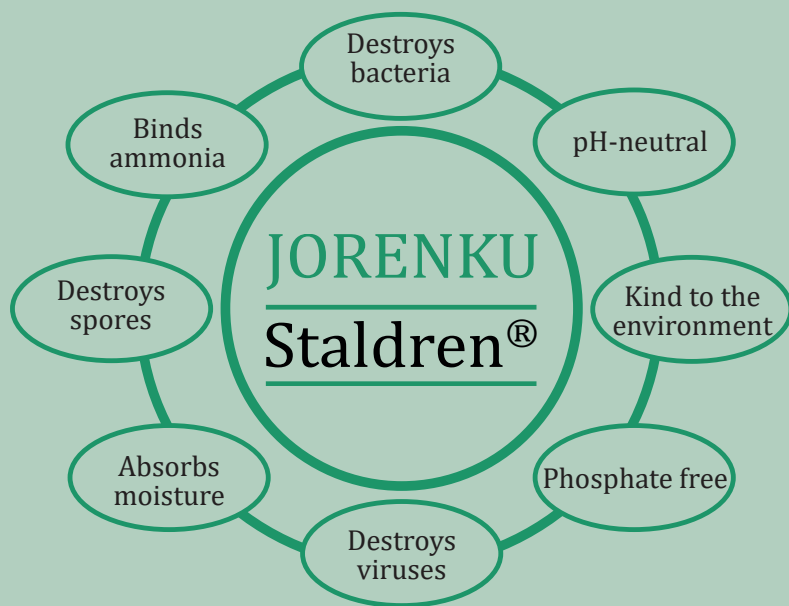
# Staldren®



[www.jorenku.dk](http://www.jorenku.dk)



# 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 9 and 10).
- 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. It is especially suitable for use in sheds with cubicles.



## 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 in poultry houses.



## Staldren® Spreading Wagon

The Staldren® Spreading Wagon is a manually pushed battery-powered wagon. It contains 50 kg Staldren® and is chiefly suitable for sheds with cubicles and poultry houses. 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. Staldren® Projet is especially suitable to spread Staldren® out in poultry houses.



# JORENKU Staldren®



## Staldren® for cattle and calves

- Staldren® prevents mastitis
- Staldren® prevents diarrhoea among calves
- Staldren® reduces the bacteria level
- Staldren® reduces the amount of spores
- Staldren® binds ammonia
- Staldren® reduces cell counts



### **When using Staldren® for cattle and calves, the following is recommended:**

A handful (50-100g) per m<sup>2</sup> is spread twice a week. This works quickly and efficiently in reducing infections. In very humid conditions and/or at disease outbreaks the amount and frequency used should be increased.

**In cubicles:** Add Staldren® as above in the rear, where the moisture will cause a possible increase in certain bacteria, and fungi can quickly multiply in large numbers and lead to inflammation of the udder and various hoof problems.

**In open sheds:** Add Staldren® as above. If the cow can turn around within the cubicle, it may be necessary to add more Staldren® and treat the entire area.

**In dry litter/straw bed sheds:** Apply a handful (50-100g) per m<sup>2</sup> once a week.

**In the cleaned calving box:** Apply Staldren® to the entire floor area. Then add clean fresh bedding, followed by a final application of Staldren®. The same application cycle should take place between every calving, to make sure the newborn calf is brought into an environment as clean as possible to prevent the risk of infectious disease both with the cow and calf. In the calf cubicle use a handful (50-100g) per m<sup>2</sup> twice a week. Make sure the corners and edges are covered as this is usually where flies collect. If diarrhoea occurs use Staldren® daily, until the outbreak has passed.



# 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 m<sup>2</sup>. 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 m<sup>2</sup> 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® for poultry

- Staldren® reduces foot pad injuries
- Staldren® binds ammonia
- Staldren® prevents diarrhoea (E-coli)
- Staldren® gives better growth
- Staldren® reduces the mortality
- Staldren® reduces the bacteria level



### When using Staldren® for poultry, the following is recommended:

Because Staldren® is pH-neutral, you can with advantage lay an open sack of Staldren® on the floor in the poultry house and let the poultry dust in it. Vermin does not like to sit on a hen, if the plumage is filled with Staldren®.

**Layers:** Staldren® is used in the nesting box before the new hens are introduced. Spread a handful in each nesting box (50-100g). Spread Staldren® on all surfaces (100g per m<sup>2</sup>), or 1 x 25 kg sack per 250 m<sup>2</sup> floor coverage. Use Staldren® once a week in the nesting boxes as well as on the entire floor area to ensure the conditions are always at the highest optimum level. This means that bacteria are controlled, the ammonia is bound, and the moisture is absorbed, minimizing foot pad injuries.

**Broiler house:** In a 1,500 m<sup>2</sup> empty and clean broiler house, spread 75 kg Staldren® (50g per m<sup>2</sup>) either with a motor blower or spraying lorry. When the area is completely covered with the "litter", 50 kg of Staldren® is added on top. Once the chickens are in the house, spread another 50 kg of Staldren® once a week until the chickens are slaughtered. In a very wet environment or if there is a problem with bacteria, increase the amount of Staldren®. If a motor blower is used in the empty chicken house, Staldren® will also have a good effect on viruses. Staldren® is a pH-neutral product, meaning that it is very gentle to the environment, both for poultry feet and eggs.



# JORENKU Staldren®



## Staldren® for horses

- Staldren® reduces the cases of porous hooves
- Staldren® reduces thrush
- Staldren® reduces the bacteria level
- Staldren® reduces the fungi level



### When using Staldren® for horses, the following is recommended:

Thrush is treated with Staldren® directly under the hooves.

You can also use Staldren® to prevent malanders by carefully rubbing the horse's legs when it comes from the fold.

**After mucking out** the box, add Staldren® all over the floor area with a handful (50-100g) per m<sup>2</sup> to ensure that the surface floor area dries out and the smell of ammonia is minimized. Cover the box floor with bedding material and add Staldren® along the edges, to ensure that the fly eggs and larvae will dry out. Apply Staldren® upon wet areas, where the bedding is changed 2-3 times a week, ensuring that Staldren® is spread along the edges of the box to maintain the drying effect on the eggs and fly larvae. Staldren® is non-toxic for horses, so there is no harm in the horse eating straw with Staldren® on.

**Cleaned foaling box:** Add Staldren® on the entire floor area to ensure it is disinfected and then apply clean and fresh bedding. Finally add Staldren® on the whole area, so that the newborn foal is in an as clean environment as possible. This prevents infectious diseases for both the mare and the foal. The foaling box is treated as mentioned above after the foaling.

# JORENKU Staldren®



## Staldren® for sheep and goats

- Staldren® reduces the bacteria level
- Staldren® reduces the fungi level
- Staldren® binds ammonia



### When using Staldren® for sheep and goats, the following is recommended:

**Lambing box:** Clean the lambing area and add Staldren® all over the floor - a handful (50-100g) per m<sup>2</sup> - to make sure that the entire floor area is covered. Then cover with bedding material and then again Staldren® with a handful (50-100g) per m<sup>2</sup>. Make sure the it is spread well into the corners and edges to ensure the flies eggs and larvae will be dried out. Staldren® is spread out between each lambing, to make sure that the newborn lamb/kid gets the best possible start in life.

**In deep straw:** Add a handful of Staldren® (50-100g) per m<sup>2</sup> on the entire floor area before the straw is spread out. Then apply Staldren® again once the straw is in place. When using Staldren® continuously, you achieve the best results by reducing the level of infection and thereby create a healthy and pleasant-smelling environment for the benefit of both animals and humans.



# JORENKU Staldren®



## Staldren® for pets

- Staldren® can be used for pets indoor and outdoor
- Staldren® can be used for e.g., dogs, cats, rabbits, hamsters and birds
- Staldren® reduces the growth conditions for flies and fleas
- Staldren® is harmless for humans and animals to get on the skin, to eat and to inhale



### When using Staldren® for pets, the following is recommended:

For smaller animals like e.g., rabbits, birds, hens, guinea pigs and dogs Staldren® is spread in a thin layer. For bigger animals spread a handful (50-100g) per m<sup>2</sup> stable.

For bigger animals use Staldren® twice a week and for smaller indoor animals every other day. In humid conditions and/or infected cages/terrarium the frequency and amount used should be increased. Use Staldren® continuously to achieve the best result.

Staldren® in no way harms pets if spread while the animal is in the cage. Only spread in the actual cage and as close to the bottom as possible, as Staldren® is a bit dusty and can bother in a living room environment.

**New cage:** Before using a new cage, spread Staldren® in an even layer at the bottom of the cage, then place the bedding and add Staldren® again in a fine layer on top of the bedding. The cage is now ready for use.

**Old/used cage:** Carefully clean the cage and make sure it is dry before spreading. Once there is an even layer of Staldren® at the bottom of the cage, cover with bedding material and then again Staldren®. The cage is now ready for use. If the cage is made of wood or other organic material it is recommended to spread Staldren® well up the sides to reduce e.g. flies and fungal spores.

### 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 atmospheric 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®



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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.



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