

A message from Mr Lars Ole Madsen, export manager



Lars Ole Madsen
Vitfoss

For the first time in the history of Stalosan an international seminar was held in Denmark with the participation of distributors from most parts of the world.

The majority of the guests initially participated in a symposium on the phase out of growth promoters in piglet feed in the EU. This ban will be effective as from 1 January 2006. Danish pig producers entered on 1 January 2000 into a voluntary agreement with the Danish government concerning the phase out of growth promoters. Thus Vitfoss has a considerable initial advantage in the field of manufacturing concentrates for piglets without the use of growth promoters.

At the seminar we were presented to a great variety of contributions, ranging from highly theoretical papers to practical use of Stalosan F in the animal production. The exchange of information was an essential aspect of the seminar; thus we heard a contribution by professor Bud Harmon from USA, who is one of the most dedicated spokesmen of Stalosan F. Bud Harmon has completed several trials with Stalosan F, mainly in the field of poultry production.

On the basis of the knowledge Bud Harmon acquired via the trials we all have to give additional attention to the use of Stalosan F in poultry production. Vitfoss and Stormollen hope that we in cooperation with professor Bud Harmon will be able to support and to improve the use of Stalosan F in this field in the coming year.

At present Stormollen works very hard on improving the physical form of Stalosan F. As a consequence we experience problems with keeping up with oncoming orders and subsequent delays in delivery. Stormollen trusts, however, that this will be dealt with shortly.

Our Expectations for 2006 are great. The EPA approval of Stalosan F in the USA and registration in Russia as well as excellent prospects for the sale in China permit us to look very positively on the development for the year 2006.

With these words I want to wish all readers of World News a happy and prosperous New Year.



Vitfoss, Gråsten



Experiences with Stalosan F under African conditions in Kenya.



Preben Toftemark
Farmers Choice
Kenya

Our experience is based on many years' cooperation with Farmers Choice/Rosemarket, Uplands, Kenya.

In 2003 and 2004 we experienced a considerable loss of pigs after weaning. The clinical symptoms were high mortality rate (6-10%) of which the general characteristics were oedema in the ventriculus and the intestine.

The occurrence of colon related diarrhoea, dejection and oedema in the eyelids was high. On a clinical basis the diagnosis oedema disease was made. It is well known that the coliform bacteria are involved in intestine diseases and more systemic diseases based on a secretion of vero toxins. A damage of small blood vessels occurs which leads to a diffusion of liquid (=oedema). The condition will soon become fatal to the weakened pigs and a mortality rate of 10-20% can be stated. A lot of the surviving pigs will have a feed conversion below normal due to damages of the intestinal mucosa.

Sera and serums have been developed against the disease for pre-weaning use. It is, however, a very expensive solution that hardly attacks the heart of the problem.

In any circumstances it is a manure communicated disease, thus sanitary conditions must be in focus.

The testing of Stalosan F was an obvious method to improve the elementary hygiene. The main purpose was to improve the ambient environment of the pig through the drying up and reduction of ammonia formation and the influence of the intestinal flora. Moreover the pigs were fed restrictively 4-5 times daily and with a feeding area for all the pigs.

About 50 g Stalosan F was used for each wet floor space. The product was used to maintain a dry sphere. Some of the pens were treated more frequently than others. The clinical symptoms such as diarrhoea and oedema disease started to decline significantly. The mortality rate after weaning has been stabilized at less than 2%. Additionally we noted a far better growth and feed conversion.

StalosanHandy



Birgitte Madsen
Vitfoss

New method for spreading Stalosan F in smaller areas

The Stalosan F blower was introduced on the market in 2003. Since then it has gained footing in many swineherds. It has insured fast, efficient and cheaper dosing of Stalosan F. The big success of the Stalosan F blower has been most evident in swineherds where Stalosan F is spread over a large area. Therefore we now introduce StalosanHandy, which is suitable for more limited spaces, such as cattle cubicles and horse stables. StalosanHandy

functions as a feed shovel with a spreading mechanism. The shovel can hold approximately 2 kg Stalosan F – with a dosage of 50 g per square meter this corresponds to 40 square meter stable.



Ammonia and water in poultry production



Jan Storgaard
Stormøllen

Moisture, in conjunction with high temperature, promotes bacterial growth, which will decompose organic material producing ammonia in the process. Because ammonia production is so intimately linked to litter moisture, it is quite difficult to separate the effects of each of these two factors. The combination of ammonia and wet litter is responsible for a large number of health- and density-related welfare problems in poultry. For example, the occurrence of ascites, gastrointestinal irritation, and respiratory diseases has been correlated with ammonia levels above 50 ppm.

Ammonia levels have also been associated with a high incidence of contact dermatitis: foot, hock, and breast burns. If the foot lesions are serious, lameness and leg problems may result. Many of these pathologies can be quite painful and stressful for the birds. Ammonia levels above 50 ppm have an important affect on growth rate and performance. Ammonia levels, rather than behavioural factors, are the main reasons of depressed growth at high rearing densities. The effects of ammonia are highly dependent on expo-

sure time. It should therefore be noted that any effect demonstrated at rather high concentrations is likely to be present at much lower concentrations with longer exposure times.

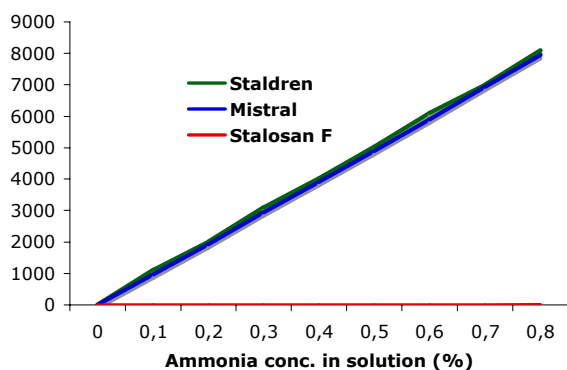
Because of the consequences of ammonia for human health, many European countries have regulations regarding human exposure, which set the upper limits for acceptable ammonia concentrations. For example the limit in the UK is 25 ppm, in Sweden and Germany the limit is 25 and 20, respectively, for an 8-hour working day. Sweden also has a second limit of 50 ppm for a maximum of 5 minutes exposure.

Ammonia Level Effect on Poultry

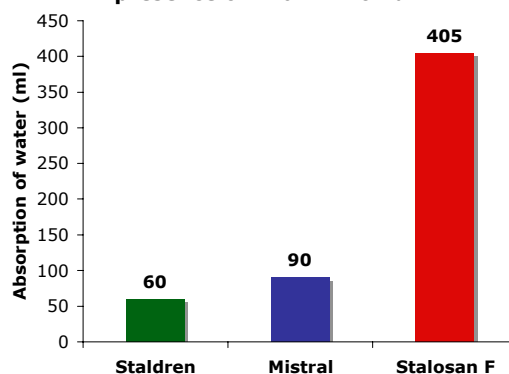
- 10 ppm:** Over several weeks the respiratory tract of turkeys and chicken will receive some damage and interfere with the birds' ability to clear bacteria from their lungs.
- 25 ppm:** Damage to the lungs and air sacs starts to appear in 48 hours. Bacteria and viruses causing fowl cholera, infectious bronchitis and colisepticemia can more easily invade the lungs and air sacs.
- 50 ppm:** Significant lung and air sac damage in as little as 1-2 weeks. Eggs numbers will decline in a month or less. In 10 weeks or less, the sexual maturity of pullets will be delayed and egg numbers will be reduced once egg production begins.
- 100 ppm:** Feed intake and body weight will decline significantly over the course of a month. Decreased shell thickness and egg size. Some mortality may occur.

The inhibition of ammonia evaporation and absorption of water have been measured for Staldren, Mistral and Stalosan F in a comparison study done by Stormøllen. See results below:

Evaporization of Ammonia after addition of Staldren, Mistral or Stalosan F



Water absorption for Staldren, Mistral and Stalosan F in the presence of 1% Ammonia



Stalosan® F

Microbial and environmental control for all animal housing



Long-term efficacy with Stalosan® F

Regular use of Stalosan® F in animal housing improves sanitation standards, lowers the disease level and increases both condition of life and feed conversion rate.

Due to its antimicrobial effect Stalosan® F controls bacteria, viruses, fungi, fly-larvae and parasites, including Coccidia and round-worm.

The antimicrobial effect includes E.coli 149, Salmonella Typhimurium DT104, Staphylococcus aureus, Streptococcus uberis, mycoplasma, campylobacter a.o.

The effect of Stalosan® F includes, amongst others, microorganisms causing diarrhoea, coccidiosis, joint infections, hoof injuries, increased somatic cell count, mastitis, abscesses, respiratory disorders, etc.

Stalosan® F controls moisture at variable levels, where increased water pressure leads to increased water binding capacity (Stalosan® F binds water up to 4 times its own weight).

Stalosan® F significantly reduces ammonia and sulphurous gases that normally would damage the mucous membranes of the animals and subsequently lower their resistance to infections.

Stalosan® F can be added while the animals are present.

Increased stress of domestic animals due to high stocking rates, high performances, changes of feed and transport increases the risk of infections and diseases. Regular use of Stalosan® F will lower the risk to a minimum.

Stalosan® F has been on the market for more than 40 years and no side effects have ever been reported on animals or humans.

Stalosan® F is economical in use. Simply apply 50 g/m² for 3 days, and thereafter once a week. In special cases Stalosan® F can be used more frequently.

Stalosan® F for all animals

Stalosan® F is applied on the floor in animal houses – sprinkle it by hand or use a blower.

Special attention should be paid to:

Pigs

- Under the sow and in places where the piglets sleep and reside.
- In moist places where piglets eat and drink.
- Deep litter sections.
- Slatted floors.

Cows

- Where the cow rests, especially under the udder and in moist places.
- In cubicles and in stanchion bars, especially at the back, near trough and dung channel.
- In deep litter sections, over the mat where the animals rest.
- In calf boxes the whole area should be treated.

Poultry

- Over existing mats.
- In nesting boxes.
- In moist places.

Horses

- In the entire horse box special attention should be paid to the edges.

Sheep

- Onto the straw. This is very important for lambing sheep.

*Please note:
Do not use Stalosan® F in combination with flies of prey.*

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