



# CALVES

With more than 40 years of experience with the development of non-medicated dietary feed materials, we have a leading position in this field. We continue to develop new products and to improve existing standards.

We use high quality materials and treat them gently to ensure that our products always have the same high quality.



## BIOFIBER DAMINO A/S IS PART OF THE BIODAN GROUP

Besides BIOFIBER-DAMINO A/S, the BIODAN Group includes the webshop DAMINOSHOP.COM selling special products for horses, and the company BIODANE PHARMA A/S which engages in the development and manufacturing of products for human use, with a focus on regulation, stimulation and protection of gastrointestinal functioning.

The companies are all located at the same address: Staushedevejen 10, DK-6621 Gesten

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### THE BIODAN GROUP



**DAMINOSHOP.COM**



**BIODANE · PHARMA**

## ABOUT BIOFIBER-DAMINO A/S

Biofiber-Damino A/S is a dynamic company located in Gesten, Denmark. The main activity of the company is the development, manufacturing and marketing of high quality animal health products for newborn farm animals in the first weeks of their lives. The products are all based on natural raw materials and ingredients. Today, the company is one of the leading providers of non-medicated products in Europe.

Biofiber-Damino A/S has unique, modern production facilities that meet the latest standards and technologies, and holds patents covering products as well as processes. The products are sold worldwide, with an export rate of more than 90%.

For many years, Biofiber-Damino A/S has conducted trials – also abroad – under different management and climatic conditions to demonstrate the effectiveness of the products. The company also works closely together with Danish and international universities and research institutions.

Biofiber-Damino A/S is certified according to the standards ISO 22000, GMP+ and VLOG.

The product range includes the following product groups where Biofiber-Damino A/S over the years has achieved a high level of specialist knowledge:

### COLOSTRUM

Biofiber-Damino A/S collects IBR-free bovine colostrum from selected local herds. The colostrum is dried into a powder in a gentle way to ensure a high content of immunoglobulins. The powder is used in pure form for calves and as a main ingredient in a starting aid for newborn piglets.

### DIGESTION

Dietetic complementary feed to be used in case of digestive disturbances (diarrhoea) for the stabilization of the fluid and electrolyte balance in calves, piglets, kids and lambs. Our dietetic complementary feeds consist of specially treated plant fibres, easily digestible energy and have a high content of electrolytes. The feed can be used if there is a risk of digestive disturbances, and during periods of, and recovery from, digestive disturbances.

### IRON SUPPLEMENTS

The oral iron supplement FerkoFer is a safe and practical way to cover the suckling piglets' individual need for iron. FerkoFer is microencapsulated and combines several iron sources, lactose, fibres and sweetener. Lactose and sweetener ensure a pleasant taste and a good appetite.

## CONTENTS



Biopect.....4



ColoDan Feed.....8

# biopect®

DIETETIC COMPLEMENTARY FEED IN CASE OF DIGESTIVE DISTURBANCES (DIARRHOEA)

**THE WAY TO A  
HEALTHY DIGESTION**



# biopect®

DIETETIC COMPLEMENTARY FEED IN CASE OF DIGESTIVE DISTURBANCES (DIARRHOEA)

## Biopect

Biopect is a dietetic complementary feed for the stabilization of the fluid and electrolyte balance in calves suffering from digestive disturbances (diarrhoea).

Biopect can be fed in milk.

Biopect consists of specially treated plant fibres, easily digestible energy and has a high content of electrolytes.

Biopect is a finely granulated, agglomerated and homogenous, dust-free product with a high solubility and without risk of segregation.

## Application

Biopect is used during periods of digestive disturbances, regardless of whether they are caused by bacteria, viruses or feed related.

Biopect can also be used preventively if there is a risk of digestive disturbances, e.g. due to change of diet, relocation and newly purchased animals, or other stressful situations.

Furthermore, Biopect can be used as a supplement to antibiotic treatment where it reduces the harmful effect of the antibiotic on the intestinal microbiota and supports a rapid restoration of the natural intestinal microbiota.

Calves with severe digestive disturbances can easily lose 6-8 litres of fluid in a day. It causes dehydration and loss of electrolytes and energy.

## Administration

In case of digestive disturbances (diarrhoea).

### Dose:

50 g of Biopect, mixed into 2 l warm milk/milk replacer (approx. 40 °C).

### Mild cases:

Twice daily, for 3-5 days.

### Severe cases:

During the first 24 hours, the dose can be given up to 4 times, dependent on the degree of the digestive disturbances. The following days: as in mild cases.

### Preventively:

Half dose (25 g in 2 l of milk) for 3 days.

### Water:

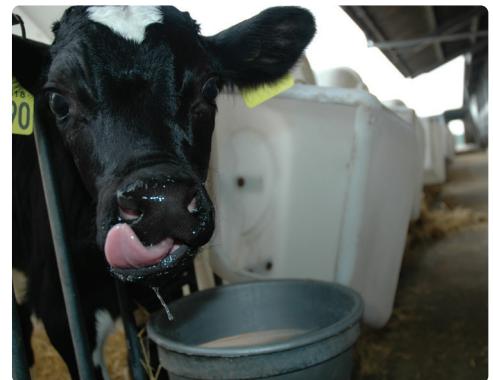
In water the dose is doubled: 100 g in 2 l approx. 40 °C warm water at the first two administrations. Hereafter, it is dosed in milk/milk replacer as in mild cases.

### Measuring cup for 50 g included.

The stated doses apply to a calf of approx. 50 kg.

## Biopect

- Effective in case of digestive disturbances
- Can be used preventively
- Added plant fibres stabilize digestion
- A high content of electrolytes
- Supplies easily digestible energy
- Restores the intestinal microbiota
- Can be used in milk



# biopect®

DIETETIC COMPLEMENTARY FEED IN CASE OF DIGESTIVE DISTURBANCES (DIARRHOEA)

## This is how Biopect works

The plant fibres in Biopect have different properties and effects.

Some fibres together with the liquid form a protective layer that will settle on the damaged intestinal villi.

Other fibres bind fluid, harmful bacteria and toxins that are excreted with the manure. Finally, some fibres stimulate the formation of beneficial bacteria and support a good digestion.

An optimal electrolyte composition with a high SID-value ensures a fast restoration of the electrolyte and fluid balance and a normal intestinal function.

Dextrose supplies the calf with easily digestible energy and stimulates the absorption of electrolytes in the intestine.

Alkaline buffers stabilize the acid-base balance of the blood and promote the uptake of water and sodium.

The composition of Biopect optimizes and strengthens the intestinal bacteria flora and ensures that the calf recovers quickly after a period of gastrointestinal problems.



Preventive use of

## Biopect

In situations where the calf is exposed to changes or stress, digestive challenges are often seen. It would be beneficial to use Biopect in these situations.

### Change of feed

For example the transition from milk feeding to feeding calf mix.

### Heat stress

During warm periods where the calf is extra exposed to dehydration and loss of electrolytes.

### Cold and humid periods

In cold and humid weather where the calf is especially susceptible to digestive problems.

### Relocation of animals

Calves that are moved together in new groups, for example from single boxes to group boxes or are moved to calf herds.



## Composition

Fruit pulp dried, dextrose, sodium chloride, sodium bicarbonate, psyllium husks, maltodextrin, potato starch, chicory roots powder, carob powder, potassium chloride, magnesium oxide.

## Additives:

1a262 – Sodium diacetate  
1k281 – Sodium propionate

Analytical constituents	%
Crude protein	3.5
Crude fat	1.0
Crude fiber	8.0
Crude ash	19.0
Sodium	5.9
Potassium	1.6
Chloride	5.3

SID, mmol/l, water/milk	64/70
Osmolarity, mOsm/L	368
Dissolved in water.	
Osmolarity, mOsm/l	466
Dissolved in milk.	

## Avoid digestive disturbances

- Better health
- Higher survival rate
- Higher growth rate
- Higher performance in first lactation
- More time for care
- Lower medicine costs
- Higher job satisfaction

# biopect®

DIETETIC COMPLEMENTARY FEED IN CASE OF DIGESTIVE DISTURBANCES (DIARRHOEA)

## Administration

### Dosis

50 g of Biopect, mixed into 2 l warm milk/milk replacer (approx. 40 °C).

The stated doses apply to a calf of approx. 50 kg.



### MILD CASES

Twice daily, for 3-5 days.



### SEVERE CASES

During the first 24 hours, the dose can be given up to 4 times, dependent on the degree of the digestive disturbances. The following days: as in mild cases.



### PREVENTIVELY

Half dose (25 g in 2 l of milk) for 3 days.

## Biopect in milk

Biopect is specially formulated so that the milk feeding, and thus the supply of nutrients, can be continued during a period of digestive problems.

- Weight loss is reduced
- The immune system is strengthened
- Health improves

## The 6 golden rules

1. A calf needs 4 litres of good quality colostrum as soon as possible after birth.
2. It is important that the calf gets plenty to drink.
3. The milk must have the correct temperature.
4. High hygiene when administering.
5. The calf should not be exposed to draught or a humid environment.
6. Stress can cause gastrointestinal disturbances.

# ColoDan® Feed

DRIED IBR-FREE COLOSTRUM

**A SAFE START  
IN LIFE**



# ColoDan® Feed

## DRIED IBR-FREE COLOSTRUM

### ColoDan Feed

ColoDan Feed is dried colostrum from Danish, IBR-free herds. It contains 99% colostrum. The colostrum is collected from selected local herds and comes from the first two milkings after calving. The colostrum from the first and the second milking is especially high in immune substances and nutrients.

ColoDan Feed is a powder that has undergone a gentle drying process so that the bioactive substances of the colostrum have been maintained. No fat has been removed, no immune substances added, nor are any other alterations made.

### Administration as a replacement

#### First day:

Mix 1000 g ColoDan Feed with 3 l of warm water (max. 50 °C). To be administered as soon as possible and within 6 hours after birth.

#### Second day:

First feeding: Mix 500 g ColoDan Feed with 1.5 l of warm water (max. 50 °C).

Second feeding: 3-4 l of IBR-free whole milk or milk replacer.

Feeding temperature 37-40 °C.

### Administration as a supplement

Brix	ColoDan Feed gram/litre colostrum	ColoDan Feed gram/4 litres colostrum
20	70	280
21	35	140
22	0	0

### Example

The measured value is 20 Brix. We want to feed the new-born calf 4 litres of colostrum. A total of 280 g of ColoDan Feed in 4 litres of colostrum is needed.

### ColoDan Feed as a replacement

ColoDan Feed is used when there is a shortage of colostrum, or if the cow's own colostrum cannot be used due to health problems in the herd.

### ColoDan Feed as a supplement

ColoDan Feed can be used to supplement the cow's colostrum if the quality is too poor, or if there is not enough colostrum available.

The dosage depends on the quality of the cow's colostrum. The quality can be measured with a refractometer (Brix meter). A good quality has a value of at least 22. If it is lower, it can be supplemented with ColoDan Feed.



Analytical constituents	%
Crude protein	47.0
Crude fat	23.0
Crude fibre	5.0
Crude ash	0.0
Sodium	0.2
IgG	14.5

# ColoDan® Feed

DRIED IBR-FREE COLOSTRUM

## ColoDan Feed the first 1-2 weeks after calving

After the first 24 hours, the calf's intestine closes to absorb IgG from the colostrum. However, colostrum also contains a number of other bioactive substances, antimicrobials and growth factors, which affect the development of the immune system and the gastrointestinal tract and provide local protection in the intestine.

Therefore, it may be beneficial to allocate colostrum for an extended period of time. Recent studies show that calves generally achieve better health by administering colostrum / transitional milk in the first 1-2 weeks after birth.

### ColoDan Feed

- High content of immune substances and nutrients
- Safe start in life
- Better health
- Higher survival rate
- Better growth
- Work relief

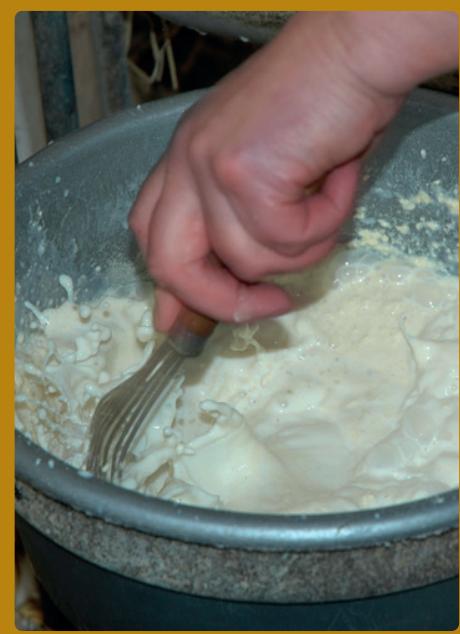
### Allocation of colostrum the first 1-2 weeks after calving

In practical terms, ColoDan Feed can be mixed into whole milk or milk replacer and mixed in the milk cart for the smallest calves (1-2 weeks after birth).

Give 50 g ColoDan Feed together with whole milk or milk replacer twice daily.

#### *Important to remember*

ColoDan Feed must not be stirred into water/milk with a temperature higher than 50 ° C, as important components in the colostrum can be destroyed by too high heat.



# ColoDan® Feed

## DRIED IBR-FREE COLOSTRUM

### The calf's need for colostrum

Colostrum is the first milk produced by the cow during the first 1-2 days after calving. Colostrum is rich in nutrients, antibodies, growth factors and a wide range of other bioactive substances, which promote the growth of the calf and the development of the immune system, so that the calf is protected in the first weeks of its life.

For the calf it is crucial to consume colostrum as soon as possible after birth to ensure adequate immunization.

The calf does not receive antibodies to the blood from the cow before birth, but is born without any kind of immunological protection, and the calf's ability to absorb the immune substances disappears almost completely during the first 24 hours.

### Time is an important factor

Immediately after birth, the calf's intestinal cells are naturally permeable to allow passive transfer of large molecules such as antibodies.

After approx. 24-36 hours the intestine closes, and the intestinal cells no longer allow large molecules to pass.

It is therefore important that the calf drinks enough colostrum as early as possible and preferably within 6 hours after birth to obtain sufficient immunological protection.

Colostrum is produced before calving and ceases at calving when the milk production starts. This means that a dilution of the colostrum begins immediately after calving. Therefore, it is important that the calf consumes colostrum from the first milking as soon as possible after calving.

### Achieve adequate immunity

- Give a calf of large breed minimum 4 litres of colostrum. Alternatively, 1000 g ColoDan Feed in 3 litres of water.
- Give a Jersey calf minimum 3 litres of colostrum. Alternatively, 1000 g ColoDan Feed in 3 litres of water.
- Check that the IgG of the blood serum is minimum 10 g/l.

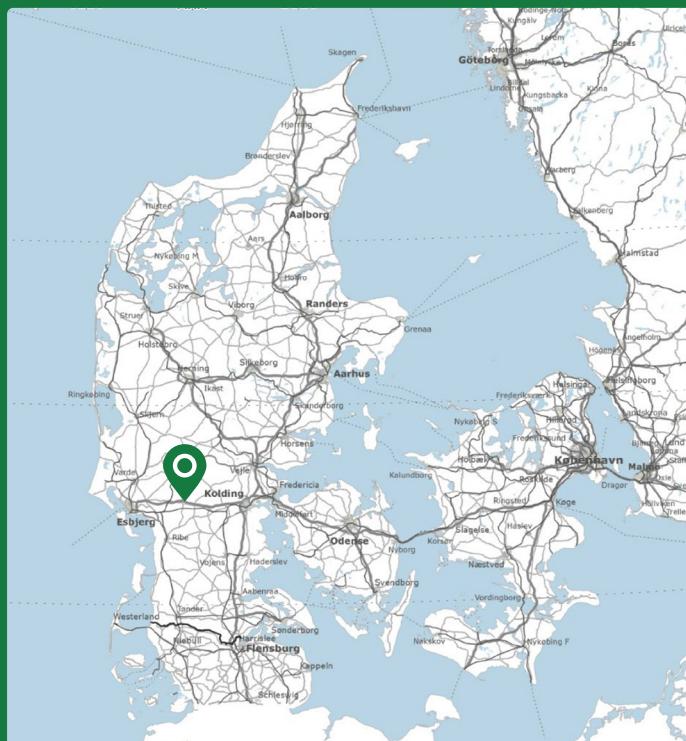
### Colostrum quality

The quality of the colostrum is important to ensure adequate immunization. The quality can be measured with a refractometer (min. 22% Brix).

### Factors influencing the colostrum quality

- Time from calving to first milking
- Lactation number
- Length of dry period
- Feeding during the dry period
- Health condition during the dry period and around calving
- Milk leakage during the dry period





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