Rearing piglets with JBS
Portfolio of special products for piglets

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“Rearing piglets with jbs – I like it!”

joachim behrens scheessel gmbh (in short: jbs) is in its third generation of advising farmers on agricultural products as well as supplying them. jbs combines different sales areas – one of these specialised departments has been advising farmers on specific products for pig farming for several years.

Advancements in breeding have resulted in ever bigger litters per sow, reducing the chances of survival for weaker piglets. Therefore, their rearing requires special attention, as a piglet’s early days determine its future development.

This department offers an interesting product range from farrowing to weaning. These innovative products are the result of jbs’s own development in cooperation with company Nukamel – our Belgian manufacturer for milk-based products.

This brochure aims to give a short overview of our range – should you have any questions, please don’t hesitate to contact us.

We are looking forward to talking to you!

our team from jbs
jbs ferkelpaste® – paste for oral administration, contains probiotics, vitamins & iron

- contains two highly effective probiotics
- supports the intestinal flora
- easy to apply

Product description

Lactic acid bacteria of the species *Enterococcus faecium* are part of a healthy intestinal flora and promote the growth of beneficial intestinal bacteria. In addition, they restore intestinal health and strengthen the immune system. jbs ferkelpaste® *imuvit* further contains BioPlus 2B®, probiotics, which improve feed conversion and provide the piglets with optimum intestinal protection.

The different types of jbs ferkelpaste® are designed to address two different aspects of piglet health: Firstly, jbs ferkelpaste® *imuvit* contains immunoglobulin (IBR-free), which is indispensable for a good start into a piglet’s life. Combined with additional vitamins, this paste also supports the good recovery of the intestinal flora in stressful situations and during medical treatment. The second aspect is covered by jbs ferkelpaste® *fe*, which provides the piglets with a sufficient amount of iron and additionally contains valuable vitamins. This paste compensates for any iron deficiency in piglets.

Application

jbs ferkelpaste® is ready for use. One push applies 2 ml, corresponding to a daily dose. To apply paste, insert mouthpiece carefully onto the root of the piglet’s tongue, as far downwards as possible.

jbs ferkelpaste® *imuvit*: Apply directly after farrowing; repeat if required in stressful situations or to support weaker piglets.

jbs ferkelpaste® *fe*: Apply between 2nd and 3rd day of life; repeat on the 6th day of life.

Storage and shelf life

- keep refrigerated
- shelf life: 12 months
- clean mouthpiece after use or use a new one
- close dispenser after use

Packaging

3 dispensers of 150 ml each per box

### Composition

<table>
<thead>
<tr>
<th></th>
<th>fe</th>
<th>imuvit</th>
</tr>
</thead>
<tbody>
<tr>
<td>probiotic</td>
<td><em>Enterococcus faecium</em> &amp; BioPlus 2B®</td>
<td>probiotic <em>Enterococcus faecium</em> &amp; BioPlus 2B®</td>
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<tr>
<td>iron (II)-fumerate</td>
<td>vitamins A, D₃, E</td>
<td>immunoglobulin derived from IBR free-colostrum</td>
</tr>
<tr>
<td>vitamins A, D, E, B, C</td>
<td></td>
<td>bridges the piglet’s immunity gap</td>
</tr>
</tbody>
</table>

### Advantages of respective type of jbs ferkelpaste®

- increases haematosis
- protects from anaemia
- comparable to iron injection
- comparable to iron injection
- comparable to iron injection

### Advantages shared by both types of jbs ferkelpaste®

- digestive tract is colonized with natural, favourable lactic acid bacteria and spore-forming microorganisms
- regenerates the intestinal microflora after medical treatment or in stressful situations
- contains pathogen free colostrum
Feeding trial – jbs ferkelpaste® fe

A feeding trial was conducted as part of a bachelor thesis at the University of Applied Sciences Weihenstephan-Triesdorf studying the iron supply of suckling piglets. Over the course of this trial, iron supplementation by injection versus the oral administration of jbs ferkelpaste® fe were studied.

In this trial, a control group and two trial groups were supplied with iron. The control group was injected with 1 ml of iron dextran on their second day of life, trial group 1 was supplied with the standard dose (1 push of the dispenser) of jbs ferkelpaste® fe on their second day of life and the second trial group was supplied with the standard dose of jbs ferkelpaste® fe on both their second and sixth day of life respectively.

Iron levels in piglets
The average iron level in the blood of piglets should be between 16.7 - 35.3 µmol/l. The adjoining chart shows the average iron level of the respective groups.

This chart shows that the control group and trial group 2 have been supplied with a sufficient amount of iron.

During the feeding experiment, the piglets in test group 2 demonstrated the highest daily weight gain.

The upper chart shows the initial weight of the respective groups.

Birth weight was highest in the control group and lowest in trial group 2.

The lower chart shows the average weight at weaning of the respective groups.

Trial group 2 shows the highest weight at weaning. Bearing in mind that these piglets started into the trial with the lowest birth weight, this chart illustrates that trial group 2 had the best development of all groups in the trial.

Conclusion
Double administration of iron was beneficial in many respects. Not only did the piglets receive a sufficient amount of iron, the double administration also resulted in excellent growth despite a low birth weight.
jbs fermos direkt – complementary feed for sucking piglets

• essential oils
• contains tannins, which form a protective coating on the intestinal mucosa
• easy to use

Product description
jbs fermos direkt is a complementary feed especially developed for sucking piglets which supports the young animals’ digestion. Its excellent combination of essential oils and tannins protects piglets during suckling. Tannins have an astringent effect and form a protective coating on the intestinal mucosa, thus sealing it and normalising the intestinal functions. May be given during the first days of life.

Usage/application
jbs fermos direkt may be administered directly into the mouth of piglets suffering from indigestion. jbs fermos direkt is ready for use and comes in a dispenser. Remove lid from dispenser and attach mouthpiece. Insert mouthpiece into the piglets mouth and push button on the dispenser.

Each push administers 2 ml. Make sure to press the mouthpiece carefully onto the root of the tongue, as far downwards as possible. This ensures that the paste is swallowed completely.

Composition
• essential oils
• propanediol
• sodium propionate

Storage and shelf life
• close dispenser after use
• clean mouthpiece after use or use a new one
• store in a cool and dry place
• shelf life: 12 months

Packaging
3 dispensers of 150 ml each per box
Porcomel – a new generation of milk replacers

Porcomel milk replacers are readily soluble, highly palatable and of high milk quality. Genetic developments have resulted in increasingly larger litters per sow while the birth weight of piglets has decreased. The Porcomel milk replacer concept supports the piglets’ development and promotes good health and optimum growth in order to facilitate the weaning process. Porcomel milk replacers are indispensable for the efficient rearing of piglets.

Nukamel products support piglets’ health and optimum growth

- fat / protein content resembles that of sow milk
- guaranteed level of immunoglobulin (whey)
- improves piglets’ survival rate
- consists of easily digestible fat and lactose
- stimulates the intake of jbs prestarter
- increases daily weight gain
- promotes intestinal health

Administration of dairy products

Additional administration of milk replacer during milk-feeding period

- boosts piglets’ daily weight gain
- may be administered right after farrowing
- increases milk intake – even that of weaker piglets
- improves the sow’s condition

Administration in cases of early weaning or sowless rearing

- suitable for rearing surplus piglets
- may be administered directly after feeding colostrum
- facilitates transition from sow milk to solid feed (jbs prestarter)
- also suitable for automatic feeding systems

Spray cooling – manufacturing process

This is a patented process in which emulsified fat is sprayed into a swirl of milk powder thus cooling it down.

The fat coats the small milk particles.

Special features:

- improves fat’s solubility and digestibility
- improves roughage intake
- improves moistening of powdered milk
- excellent free-flowing properties

Spray cooling versus spray drying

- improved fat digestion
- improved roughage intake
- improved weight gain
Porcomel Nature – high-quality starter milk replacer (+ immunoglobulin)

- fat / protein content resembles that of sow milk
- highly efficient probiotics
- high milk content
- guaranteed content of immunoglobulin
- easily digestible vegetable oils
- readily available vitamins and micronutrients
- suitable for bowl and automatic feeders
- may easily be combined with Porcomel Transit

Product description

Porcomel Nature is a highly developed milk replacer which improves the chances of survival for weaker piglets. Any negative energy balance caused by malnutrition is compensated for by the high content of fat and lactose in milk replacers. Efficient probiotics support digestion and inhibit the development of pathogenic germs. Furthermore, immunoglobulin extracted from whey supports the development of the young piglets’ immune system. Carefully selected components such as coconut oil increase feed intake and improve digestion.

Application

Porcomel Nature may be administered directly after colostrum-feeding. Mix 200 g of Porcomel Nature with 800 ml of warm water (42 °C). Feed at 39 °C.

Porcomel Nature is also suitable for sowless rearing.

Composition

- whey powder
- skimmed milk powder
- whey protein concentrate
- vegetable oils
- maltodextrin
- rice concentrate
- vitamins & micronutrients

Storage and shelf life

- shelf life of 12 months if stored in a cool and dry place
- close bag tightly after opening

Packaging

25 kg bag

Analysis of components

<table>
<thead>
<tr>
<th>Component</th>
<th>Content</th>
</tr>
</thead>
<tbody>
<tr>
<td>protein</td>
<td>17 %</td>
</tr>
<tr>
<td>fat</td>
<td>24 %</td>
</tr>
<tr>
<td>fibre</td>
<td>0.1 %</td>
</tr>
<tr>
<td>ash</td>
<td>7.5 %</td>
</tr>
<tr>
<td>lactose</td>
<td>30 %</td>
</tr>
<tr>
<td>pH</td>
<td>5.4 - 5.6</td>
</tr>
<tr>
<td>lysine</td>
<td>1.4 %</td>
</tr>
<tr>
<td>methionine</td>
<td>0.55 %</td>
</tr>
<tr>
<td>threonine</td>
<td>1 %</td>
</tr>
<tr>
<td>immunoglobulin</td>
<td>&gt;10 000 ppm</td>
</tr>
</tbody>
</table>

Probiotics

- *Bacillus licheniformis*: $6.4 \times 10^9$ CFU/kg
- *Bacillus subtilis*: $6.4 \times 10^9$ CFU/kg
- total viable count: $1.28 \times 10^9$ CFU/kg
Porcomel Transit – high-quality follow-up milk replacer especially for weaning

- fat-protein-content resembles that of sows' milk
- highly efficient probiotics
- guaranteed content of immunoglobulin
- good milk content
- easily digestible vegetable oils
- readily available vitamins and micronutrients
- suitable for bowl and automatic feeders
- may easily be combined with Porcomel Nature

Product description
Porcomel Transit is an ideal milk replacer to accompany the development respectively from suckling piglet to weaned piglet to fattening pig between 25 and 50 kg. The milk replacer’s highly digestible components support the piglet’s development and the intake of solid feed. Furthermore, digestion is supported and the development of pathogenic germs is inhibited.

In addition, Porcomel Transit contains immunoglobulin, which enhances the young piglets’ immune system. Selected components stimulate the digestion and provide the piglets with readily available energy. In addition, tasty coconut oil increases feed consumption.

Usage/application
Porcomel Transit may be fed from the second week of life onwards. Mix 200 g of product with 800 ml of warm water (42 °C). Feed at 39 °C.

Composition
- whey powder
- rice concentrate
- vegetable oils
- wheat protein concentrate
- vitamins & micronutrients

Storage and shelf life
- shelf life of 12 months if stored in a cool and dry place
- close bag tightly after opening

Packaging
25 kg bag
Product description

**jbs prestarter** is well suited to accustom suckling piglets to solid feed. The product provides a good mixture of broken-down grain (like oat flakes – which have a positive dietary effect) and easily digestible protein. In order to ensure the best possible healthy growth in piglets, the product contains a specially treated source of zinc, which releases a maximum amount of free zinc ions into the intestine. Zinc ions prevent bacteria like *E. coli* from affixing themselves to the intestinal wall. The product contains mycotoxin-binding bentonite, which binds harmful microorganisms. Additional probiotics also inhibit harmful microorganisms. The combination of all these components optimizes bowel function and prevents indigestion, while at the same time improving the piglets’ immunity. Immunoglobulin and linseed also have positive effects on building up immunity.

**Usage/application**

**jbs prestarter** should be fed ad libitum from the second or third day up to a week after weaning. May also be fed mixed as mash.

**Composition**

- highly efficient prebiotics, mycotoxin-binding bentonite (aflatoxin B₁), MiaTrace Zn, oat flakes, wheat flour, protein concentrate, soy meal, potato protein, dextrose, linseed, acid mixture, NSP-degrading enzymes, immunoglobulin, vitamins & micronutrients

**Storage and shelf life**

shelf life of 12 months if stored in a cool and dry place, close bag as airtight as possible after opening

**Packaging**

20 kg bag
**jbs schweinehefe** – yeast product for pregnant and lactating sows

- increases the number of piglets per sow per year
- improves milk yield
- mycotoxin-binding bentonite (aflatoxin B₁)
- organically-bound mineral nutrients
- improves homogeneity of litters
- improves growth

**Product description**

**jbs schweinehefe** contains a highly concentrated probiotic live yeast that can be used in all areas of pig farming. The live yeast is protected by a special layer of inactive yeast, ensuring that its benefits will reach the intestine undiminished. Among other aspects, **jbs schweinehefe** stabilizes the intestinal flora, optimizes the intestinal nutrient absorption, reduces the sow’s weight loss during lactation and enhances the colostrum's amount and quality. In addition, **jbs schweinehefe** contains a special type of lignocellulose which increases the sense of satiety and diminishes the risk of constipation in the time close to birth. jbs schweinehefe additionally contains an anti-inflammatory seaweed meal which reduces mucosal irritations. Last but not least, it contains a mycotoxin binding agent consisting of binding bentonite and yeast cell walls. The mycotoxin binding agent binds mycotoxins and excretes them from the body without causing any harm.

**Application**

**jbs schweinehefe** is applied as non-pelletized supplementary feedstuff using 10 kg per tonne of feed.

**Areas of application:**
- sows, piglets (from before weaning up to a live weight of 30 kg), pokers
- **jbs schweinehefe** may also be mixed into piglet feed for weaners. For sows, start feeding **jbs schweinehefe** at least 1 - 2 weeks before farrowing and continue up until the end of the suckling period.

**Composition**

Actisaf® SC 47, mycotoxin-binding bentonite (aflatoxin B₁), lignocellulose, sodium chloride, calcium carbonate

**Storage and shelf life**

shelf life of 12 months if stored in a cool and dry place, close bucket and bag securely after opening

**Packaging**

20 kg bag
Feeding trial – Actisaf® SC 47

Trial 1: Content of immunoglobulin in the colostrum

In a feeding trial conducted with Actisaf® SC 47 30 sows were divided into 3 groups of 10 sows each.

The first group constituted the control group, which was not fed with Actisaf® SC 47 over the course of this trial. In the second group, Actisaf® SC 47 was added to the concentrated feed during lactation. As to the third group, however, Actisaf® SC 47 was added to the concentrated feed both during pregnancy and during lactation.

The greatest effects of Actisaf® SC 47 could be seen in the third group (fed during pregnancy and lactation): those sows showed the highest content of immunoglobulin in the colostrum.

Compared to the first group (control group) and the second group (fed during lactation only) the piglets showed the highest content of immunoglobulin in the blood plasm 24 hours after farrowing. The piglets in the third group also showed the highest content of immunoglobulin at the time of weaning (21 days).

Trial 2: Occurrence of diarrhoea in suckling piglets

A field trial conducted with 165 sows studied the effects of Actisaf® SC 47 (mixed into the feed of pregnant and lactating sows) on the occurrence of diarrhoea in newborn piglets. The sows received 1 kg of Actisaf® SC 47 per tonne of feed over the course of 16 days before farrowing, as well as 10 g per sow per day as a top dressing over the course of 12 days before farrowing up to 7 days after littering. The occurrence of diarrhoea in the newborn piglets was more than cut in half when adding Actisaf® SC 47: It decreased from 10.4 % to 5.1 %.

Conclusion

Feeding Actisaf® SC 47 to sows during pregnancy and during lactation significantly increases the content of immunoglobulin in the colostrum. This ensures that the piglets are well supplied with immunoglobulin over the whole lactation period right up to weaning. Diarrhoea is still one of the most common diseases in suckling piglets. Adding Actisaf® SC 47 to the sows’ feed during pregnancy and lactation significantly reduces the occurrence of diarrhoea, thus contributing to diminishing the death rate of suckling piglets.
**Product description**

The excellent absorbency of **jbs ferkelpuder** ensures that the piglets dry off rapidly, thus reducing temperature losses. Additional spreading of **jbs ferkelpuder** in the piglet nests and the remaining farrowing crates creates a dry and therefore slip-resistant environment.

**jbs ferkelpuder** combines mineral substances and essential oils. It is a fine powder which is very easy on the skin.

**Usage/application**

**jbs ferkelpuder** may be spread manually. It contains natural raw materials and is therefore eco-friendly. Its essential oils ensure a pleasant smell, noticeably improving the odour in the barn.

**Storage and shelf life**

- shelf life of 12 months if stored in a cool and dry place
- close bag as airtight as possible after opening
- do not store in moist places or close to water sources

**Composition**

- natural mineral substances
- essential oils

**Packaging**

20 kg bag

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**jbs ferkelpuder** – powder to quickly dry off newborns

- very high absorbant capacity
- ensures rapid drying of piglets
- promotes hygienic conditions
- provides dry and slip-resistant barn environment
- eudermic
- improves barn environment
- low-dust

Comparison of absorbency of different dry powders
jbs einstreu GM – bedding additive

- excellent water absorption
- fine graining is easy on the skin
- slip resistant
- binds ammonia

Product description

jbs einstreu GM is a litter based on diatomaceous earth. This product will not damage equipment and may be used in all areas of animal husbandry. It effectively helps in reducing the germ count and provides piglets with a dry environment. The umbilicus area dries faster, so the danger of painful inflammation is reduced.

Composition
diatomaceous earth

Application
use 100 g/m² resp. per piglet nest, use according to need, we recommend wearing a dust mask during mixing and application

Storage
store in a dry place, reseal bags tightly after opening

Packaging
25 kg bag

Also suitable for organic farming

jbs einstreu GM may be used in organic farming. Diatomaceous earth is approved in accordance with the regulation on organic farming (EC) No. 889/2008, in accordance with Article 39(3) of laying down detailed rules for regulation (EC) No. 834/2007, as changed by the implementing provision (EC) 2016/673.

Diatomaceous earth is listed in the following sections
- annexe II section 3 on pesticides
- annexe VI on animal feed additives
- annexe VIII on processing aids

In its recommendation, EGTOP (Expert Group for Technical advice on Organic Production) reached the conclusion that “... diatomaceous earth ... meets the objectives and principles of organic/biological farming.”
## When to use which product

<table>
<thead>
<tr>
<th>day</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>6</th>
<th>7</th>
<th>8</th>
<th>9</th>
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</thead>
<tbody>
<tr>
<td><strong>jbs ferkelpaste® fe</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>x</td>
<td>x</td>
<td></td>
<td></td>
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<td><strong>jbs ferkelpaste® imuvit</strong></td>
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<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
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<tr>
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<td></td>
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<tr>
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<td></td>
<td>x</td>
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<td>x</td>
<td>x</td>
</tr>
<tr>
<td><strong>Porcomel Transit</strong></td>
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<td></td>
<td></td>
<td></td>
<td>x</td>
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<td>x</td>
<td>x</td>
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</tr>
<tr>
<td><strong>jbs prestarter</strong></td>
<td></td>
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<td></td>
<td></td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>x</td>
</tr>
</tbody>
</table>

**jbs ferkelpuder**

- **Use**: up until weaning

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If you have any questions about our products?
Please don’t hesitate to call!
Tel.: 0049 4262 - 20 74 -913

*Always as close as your telephone!*