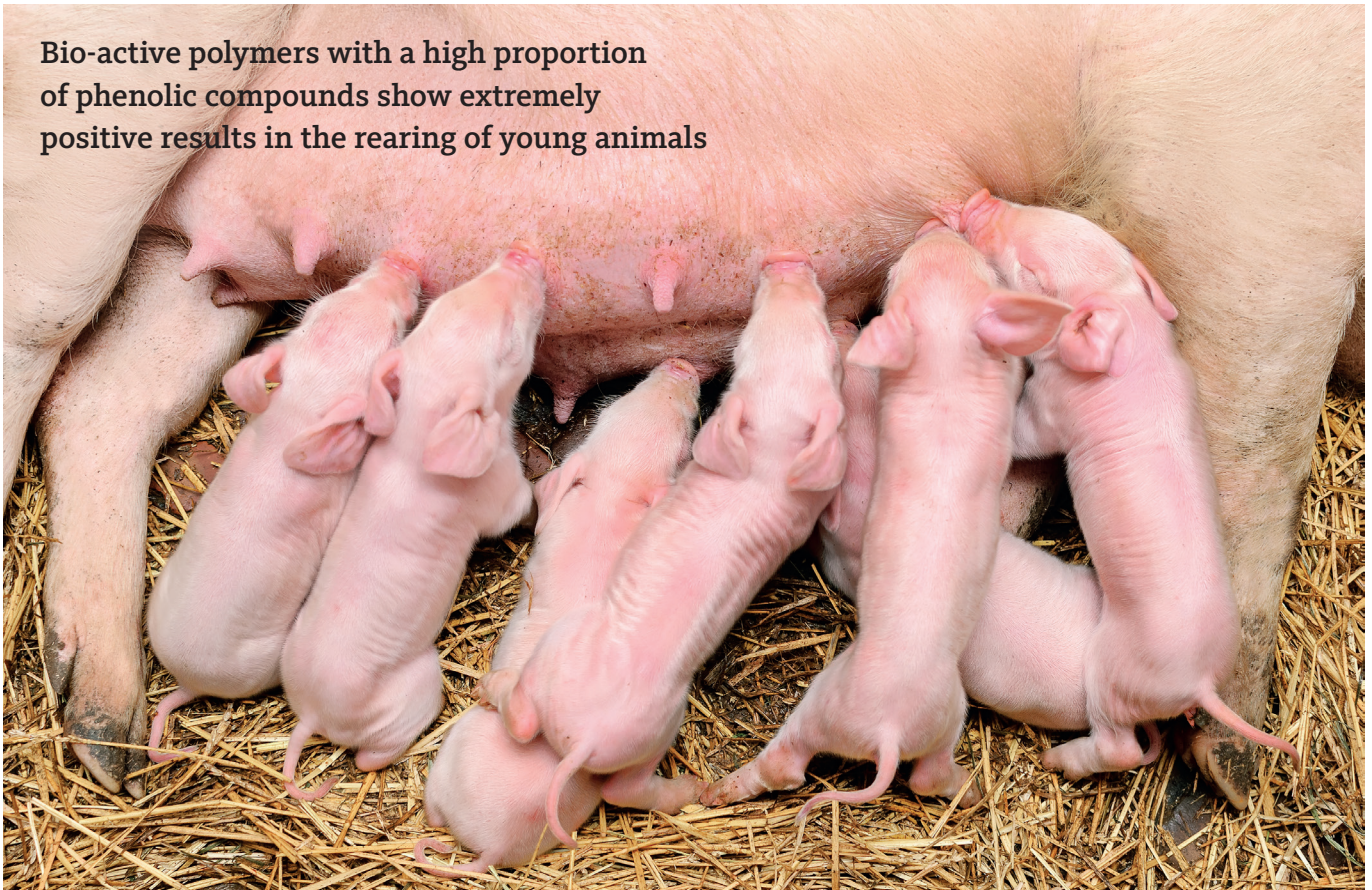




For a healthy, optimal rearing

Bio-active polymers with a high proportion of phenolic compounds show extremely positive results in the rearing of young animals



NEW INGREDIENTS EXTRACTED FROM BIOMASS

Bio-active polymers extracted from wheat straw with a high proportion of phenolic compounds show extremely positive results in the rearing of young animals. Phytaxis has many years of experience in the production and use of these herbal ingredients, which have been GMP+ certified since 2013.

A healthy intestinal function is a necessary basis for optimal food utilization and an efficient immune system. Polyphenols are secondary plant active substances that protect plants from diseases. In animals, polyphenols act as antioxidants (cell protection), have a bacteriostatic effect, promote a healthy, stable intestine and strengthen the piglet's immune system.

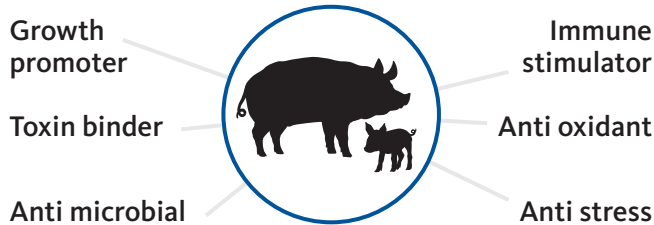
Pigextra is a natural product obtained from plants. The highly complex structure of its ingredients offers a wide range of beneficial properties that support healthy development.

Note: Please refer to the valid product label on the goods for the exact composition. All statements without guarantee. Changes are reserved.



The new solution – developed in Switzerland

Product Features



Feed type

Complementary feed

Species

Swine

Usage

Piglets, sows, fattening

For mixing in animal feed or special formulations

PIGLET

- Supports intestinal health and strengthens the immune system, less diarrhea
- Reduces growth slump at weaning
- Promotes vitality and weight gain
- Improves feed conversion
- Reduces need for medical treatments
- Reduces odor emissions (ammonia)

SOWS

- Reducing birth mortality
- Improved milk production
- Reduced odor emissions

FATTENING

- Better Feed Conversion
- Better Growth
- Improved meat quality
- Reduced odor emissions (ammonia)



Application recommendation

Pigextra is added to the feed in a proportion of 0.4% – 0.8% of the feed weight depending on age, feed recipe and operating conditions.

Per ton of feed 4kg – 8kg **Pigextra** add and mix.

Sows: 25g per day as a feed additive 1 week before farrowing until weaning

Fattening: per ton of feed: 4kg – 5kg **Pigextra** to mix (0.4% – 0.5%).

Packaging: **Pigextra** addis available in 20kg bags/pallet (net weight 420kg)

Shelf Lives: 3 years from date of manufacture

Storage: at temperatures below 60 °C

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Piglet rearing – trial with Phytaxis ingredients

Test of a Phyto-additive containing polyphenols in the feed for the weaning period compared to a negative and a positive control diet.

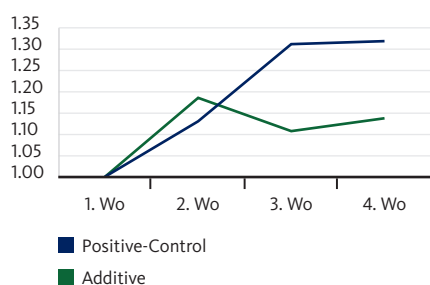
- Weaning very stressful for piglets
- Usually piglets react with diarrhoea, which requires use of drugs
- Special feeds are designed to support piglets in this sensitive period

| Treatment | Positive-Control | Negative-Control | Additive* |
|-----------------------------------|------------------|------------------|-----------|
| Starter Feed | | UFA 304 | |
| Treatment of piglets over weaning | Colistin | None | None |

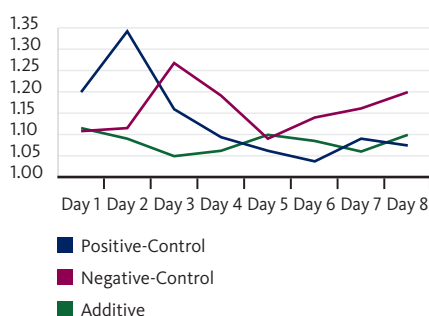
* Phytaxis Product

Results

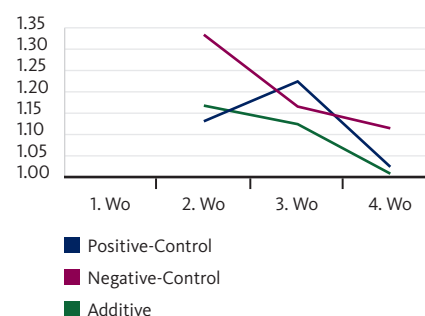
Faeces score in the farrowing pen



Faeces score at weaning



Faeces score in the piglet barn



- The use of the additive led to better faeces scores in all tested periods.
- Except for the use of Colistin in the positive-control treatment, no further medication was needed.
- Treatments in the weaning period (Colistin or additive) led to a significant better animal performance (FCR, DWG, FI) in the whole period.

| Treatment | | Positive-Control | Negative-Control | Additive* | All | |
|-------------------|-------|------------------|------------------|-----------|------|------|
| Number of animals | N | 127 | 128 | 127 | 382 | |
| Pens | N | 9 | 9 | 9 | 27 | |
| FCR 1. - 14. day | KG/KG | 1.50 | 1.51 | 1.46 | 1.49 | 0.14 |
| FCR 14. - 28. day | KG/KG | 1.68 | 1.72 | 1.68 | 1.70 | 0.14 |
| FCR 1. - 28. day | KG/KG | 1.61 | 1.63 | 1.59 | 1.61 | 0.11 |
| | Rel | 100 | 101.2 | 98.9 | | |

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Post-weaning – trial with Phytaxis ingredients

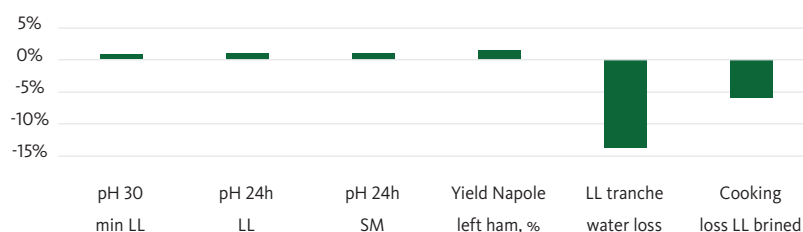
A controlled experimental study in post-weaning pigs to assess the effects of PP-HF supplementation on animal performance, L'Institut National de la Recherche Agronomique (INRA), Unité Mixte de Recherches Systèmes d'Élevage et Nutrition Animale et Humaine, Saint-Gilles, France, and L'Université de Lausanne, Lausanne, Switzerland, 2009 (Dr. B. Lebret and Dr. M. Pelgrin).

Results

A significant increase of the growth rate (8%) was obtained with an improved feed conversion. In the PP-HF-supplemented group also the internal and back fat was higher. Also the best meat quality systematically came out of this group.

The meat had better values for most parameters, in particular better pH (higher), better water losses (lower) and better Napole yield (higher). Better quality meat could lead to price premiums.

Faeces score at weaning



Long term observations with Phytaxis ingredients

Hofgut Farnsburg, 4466 Ormalingen, Switzerland – Fattening

OBSERVATIONS

Firmness of feces: very good consistency (also observed in 2007, pictures)

Health of animals: very good, barely any treatments necessary, on average less than one per year

Odor emissions: no odor noticeable, also from short distance (allows restaurant with outdoor terrace in 200m distance)

Meat quality: less water content, fat more solid, flavor of fat: earthy (meaty),



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