

dex
acidbac[®]

the most natural way to improve production

acidbac[®] is an acidifier designed to improve digestive function and maximise nutrition in order to promote animal growth and production.

Due to its efficacy and formulation with organic and inorganic acids and natural extracts, it is **the ideal alternative to antibiotic growth promoters**, which are not allowed as growth stimulants in many countries.

In addition, **acidbac**[®] is an effective bactericide and powerful anti-urease agent.



acidbac[®] is indicated for all types of monogastric animals.

Composition

A combination of organic acids, inorganic acids and natural extracts.

Indications

A natural production stimulant and alternative to growth promoters.

It has no contraindications, incompatibilities or side effects. It does not have a withdrawal period.

Benefits

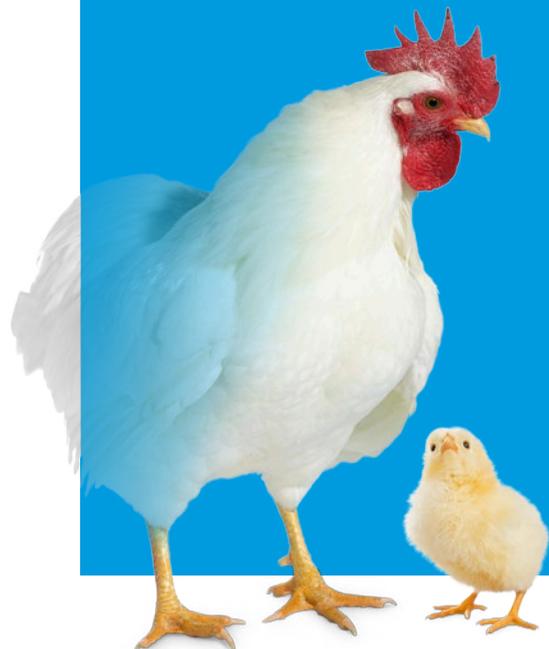
- Stimulates growth.
- Regulates the intestinal flora.
- Promotes intestinal motility.
- Enhances enzyme action.
- Sanitises feed.

Packaging

- Powder in 20 kg bags.

Dosage

1,000 to 3,000 g/MT of feed.





proven efficacy of acidbac® in broilers

Tests conducted in broilers demonstrate the efficacy and many benefits of a diet supplemented with **acidbac®**:

- **Substantial improvement in the health condition** of animals.
- **Significantly reduced mortality** and spending on medicines.
- **Control of the colibacillary flora** in the digestive system.
- **Reduced ammonia formation**, which helps to improve the immune system.
- **Improved digestive tract quality.**
- Prevents the formation of foot pad lesions and **epithelial lesions due to damp bedding.**
- **Improves production parameters.**



acidbac®
20 kg bag

the most natural way to improve production

dexiberica.com/product-lines



Capture this code to learn about the **dex** product range

Other dex products:



maximum efficiency against mycotoxins



lethal defence against mold and bacteria

Download the complete catalogue at:



dex ibérica, s.a.

Polígon Industrial Estació, 24
43480 Vila-Seca (Tarragona) SPAIN

T. +34 977 39 33 47

dexiberica@dexiberica.com

dexiberica.com





dex
acidbac[®]



Production



Health



Hygiene

ORGANIC ACIDS + INORGANIC ACIDS + NATURAL EXTRACTS

the most natural way to improve production

Stimulates growth

Regulates the flora and improves intestinal absorption

Enhances natural enzyme action

 **dex** |  **30** years
feeding smart solutions



Production



Health



Hygiene

for antibiotic-free animal production

Administering antibiotics in sub-therapeutic doses combined with feeds for animals to promote growth and improve the efficacy of feed is a practice that has been used in many countries for years, mainly due to its high efficacy and good results in terms of increased production.

The efficacy of using antibiotics as growth promoters is due to the fact that their presence in feeds promotes control over bacterial flora, which leads to better nutrient use.

The problem is that this practice is not free from risks and disadvantages associated to its use and abuse. This is why it is now regulated in many countries.

Risks of using antibiotics in animal nutrition

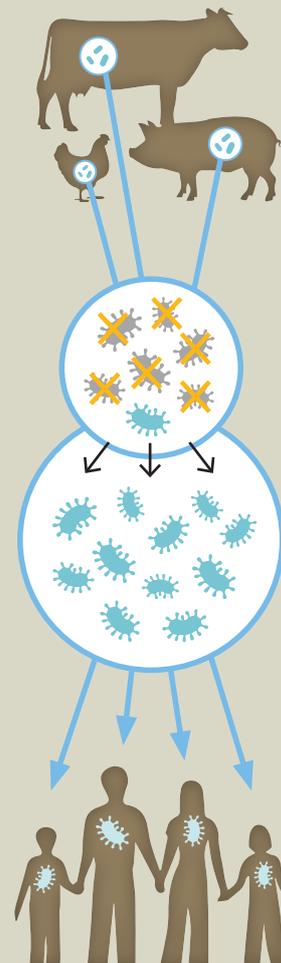
Problems for the animal

- They create **bacterial resistance** and decrease immune resistance in animals
- They can cause **side effects**
- They can lead to **contraindications** and incompatibilities with other treatments
- Using antibiotics requires a **withdrawal** period

Problems for humans

- **Bacterial resistance** is a risk because it reduces the efficacy of drug treatments.
- Potential **allergic** reactions

The danger of bacterial resistance



bacteria

Bacteria are naturally present in the intestine of all animals

antibiotics

Regular use of antibiotics kills susceptible bacteria but not more resistant bacteria

resistant bacteria

More resistant bacteria multiply and propagate through the environment and feeds

resistant infections

Resistant bacteria reach the general population through different routes and cause antibiotic-resistant infections.

In the interest of healthier, more natural and higher-quality production, **the synergistic combination of organic acids and inorganic acids is offered as an excellent alternative to antibiotics**, since it not only achieves equally good results in stimulating production, but also does so without the problem of bacterial resistance, improves digestibility, and effectively controls enterobacteria, clostridia and other bacteria.



the most natural way to improve production

organic acids, a natural alternative

Organic acids are an excellent **natural alternative to antibiotics** as growth promoters thanks to their many properties:

- They have **antifungal and antibacterial properties** that help to preserve feed
- **Acidification** of the diet augments gastric proteolysis, digestibility of amino acids and proteins, and mineral absorption.
- They inhibit intestinal bacteria, reduce toxic bacterial metabolites (ammonia and amines) and reduce intestinal pathogen counts (*E.coli* and *Salmonella*). They promote intestinal proliferation of *Lactobacillus*.
- In general, they promote **balanced intestinal flora** and reduced pathogenic bacteria, thereby promoting the preservation of an unimpaired intestinal epithelium.

acidbac®: a natural digestive system acidifier

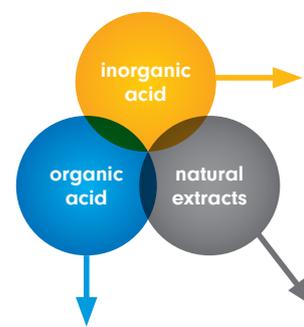
acidbac® is an advanced natural digestive system acidifier, designed using a combination of organic acids, inorganic acids and natural extracts to **improve digestive function** by decreasing stomach pH and stimulating enzyme reactions in digestion.

This digestive effect is particularly **beneficial in young animals**, which still have an immature digestive system and secrete digestive enzymes and hydrochloric acid in insufficient amounts.

acidbac® is an excellent **complete growth stimulant** since in addition to its acidifying properties, it has a powerful bactericidal effect and helps to regulate flora and intestinal motility.

acidbac®: multiple combined effect

acidbac® maximises the properties of its main ingredients, which act in combination during the digestive process:



bactericide

- In acidic environments such as the stomach they act in their **undissociated** form (R-COOH).
- In environments with a higher pH, they adopt their **dissociated form** (R-COO⁻), which prevents them from being able to cross the bacterial cell wall by themselves.

acidifier

- Due to its **acidifying** power in the digestive system, it effectively **stimulates enzyme reactions** in digestion.
- It **reduces the intestinal pH**, thereby allowing organic acids to recover their undissociated form.

bactericides

- They increase the permeability of the **bacterial cell wall**.

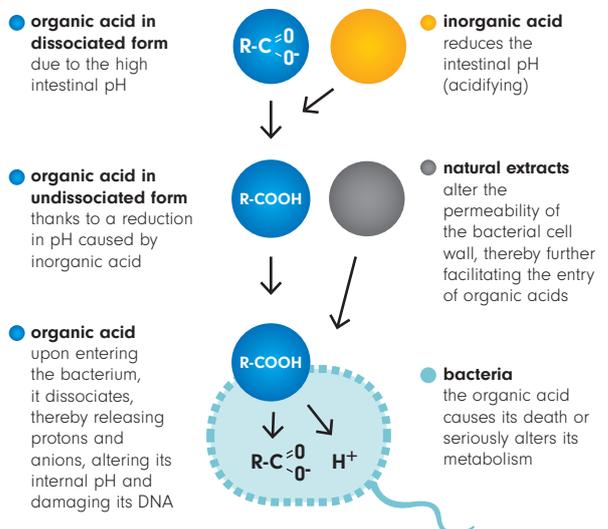
anti-urease agents

- They reduce **ammonia formation**.

surfactants

- They facilitate **fat absorption**.

combined synergistic effect in the intestine

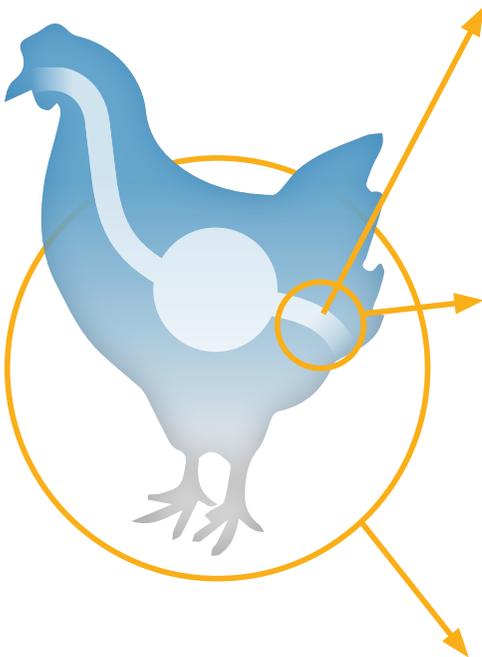


acidbac® is an excellent natural production stimulant and alternative to antibiotic growth promoters



acidbac® in broilers

The results of various tests have demonstrated that supplementation with **acidbac®** improves production parameters, nutrient use, serum metabolite level, carcass composition, microbial flora and intestinal morphology.

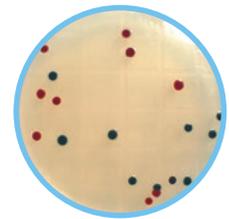
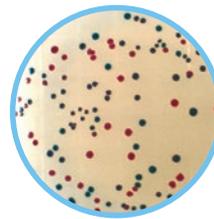


Studies performed with broilers fed for 40 days from the day of birth with two different diets:

- A basic diet with no supplements (control)
- A diet supplemented with **acidbac®** (1 kg acidbac/MT of feed)

1. Intestinal microbial flora

- A significant reduction in *E. coli* and total coliforms.
- An increase in *Lactobacillus spp.*



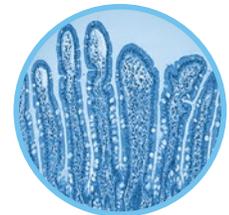
Coliform and lactobacillus count in the intestinal contents

- *Escherichia coli*
- Other coliforms
- *Lactobacillus spp.*

	Control diet	Diet with acidbac®
<i>Escherichia coli</i>	32	7
Other coliforms	67	12
<i>Lactobacillus spp.</i>	10	180

2. Intestinal microvilli

An increase in the **mean length** of the microvilli in the duodenum and the ileum, thereby enabling greater nutrient absorption.



Mean length	Control diet	Diet with acidbac®
Ileum	799,7 µm	821,9 µm
Duodenum	1.513,3 µm	1524,4 µm

3. Weight gain and conversion rate

Body weight
Total weight on day 40

Weight gain
In 40 days

Conversion rate
After 40 days

