



# SALMOSAN

THE EFFECTIVE TREATMENT

Multiple effects of SALMOSAN:

**BLOCKING EFFECT**

Based on "the barrier Concept", since it blocks the bacteria fimbrial adherence mechanism on the enterocyte, preventing bacteria colonization.

**REAL**

It creates a real and irreversible effect.

**UNIQUE**

It is unique, so do not need for metabolic mediators.

**NATURAL**

It is a natural product. Obtained using a variety of Ceratonia silicua (Mediterranean plant tree) under a specific process of fractionation and purification.

**ACTIVE**

It is an active product thanks to the innovative technological process to enable its biological action.



# SALMOSAN

THE EFFECTIVE TREATMENT

After 123 years of research and effort,  
Salmonella has been stopped



INDUSTRIAL TÉCNICA PECUARIA, S.A.

Avenida de Roma, 157, 7ª planta  
08011 Barcelona  
Tel. (34) 934 520 330  
Fax (34) 934 520 331  
e-mail: itpsa@itpsa.com - www.itpsa.com



INDUSTRIAL TÉCNICA PECUARIA, S.A.



# SALMONELLA

## IT'S TIME TO STOP IT

A major plan for food safety control has targeted Salmonella transmission all through out the human and food chain, in order to set out new direction for the agricultural industry and health authorities to reduce salmonella contamination.

Considering this scenario, ITPSA has approached the challenge by developing an innovative and highly technological natural based product, covering not only the animal nutrition aspects but Food safety as well.

A product that blocks bacteria colonization at gut level and by doing that, the microorganism will not be transmitted through the food chain to humans.

The efficacy of this innovative product solves what non one other, what so ever, has been able to do.

ITPSA, is pleased to introduce the new **SALMOSAN**.

Animals fed with SALMOSAN stop being Salmonella carriers at gut level after 15 days and its internal organs test negative to Salmonella after 30 days of application.

### WHAT IS SALMOSAN?

SALMOSAN is a 100% vegetable product, obtained by means of an innovative technological process that allows to amplify its natural microbial blocking on Salmonella as well as other pathogenic microorganisms.

SALMOSAN is added directly to the feed to achieve the optimal intestinal concentration. With this, we ensure an intimate contact between target microorganisms and the product, allowing the blocking effect taking place without any other metabolic intermediary.

By these means, a total bacteria elimination from the animal organism is achieved, thus milk, meat or egg products, will reach the consumer with proven food safety guarantees.

### SALMOSAN TRAITS

There are some products in the market that under some apparently multi-action claim are commercialized as Salmonella preventives.

Nevertheless, they do not offer clear efficacy against this pathology.

SALMOSAN is technically conceived under five different optics:

**First** - It is a 100% natural product. Obtained using a variety of Ceratonia silicua (Mediterranean plant tree) subjected to a specific process of fractionation and purification.

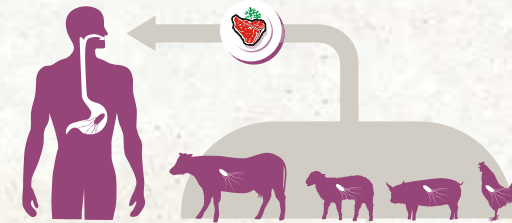
**Second** - It is based on the barrier concept, since it blocks the bacteria fimbrial adherence mechanism to the enterocyte, thus blocking bacteria colonization.

**Third** - It creates a real and irreversible effect.

**Fourth** - It is unique, so it does not need for metabolic mediators.

**Fifth** - It is an active product thanks to the innovative technological process to which it is subjected to enable its biological action.

That is why we can say we have never been so close to ensure total control on Salmonella transmission.



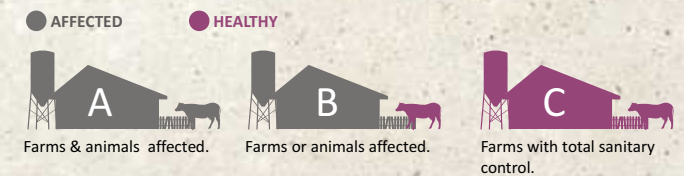
**1 SALMONELLA TRANSMISSION**  
Eggs, meat and milk can play an important roll on Salmonella transmission to Humans. It usually occurs when uncontrolled sources of food reach food chain thus creating an infection which causes gastrointestinal problems.



**2 STRONG PRESENCE IN LIVESTOCK**  
It has been established that Salmonella prevalence is very high, from 30% to 60% of the herds in a given area are considered as carriers. Unattended, it will represent a constant source of contamination, as the farmer may ignore that his animals are bearers of the bacteria.



**3 A GREAT RISK FOR FARMERS AND CONSUMERS**  
Many countries in the world, as well as the European Union, are on the way to reduce antibiotics as growth promoters in feed, creating a lack of confidence to the farmers. With this scenario, it has become necessary to extreme sanitary controls at farm level, as well as in animals and feed, in order to avoid and prevent outbreaks of pathogenic microorganisms.



**4 DIFFERENT SCENARIOS**  
There are three different situations at farm level A, B, C.

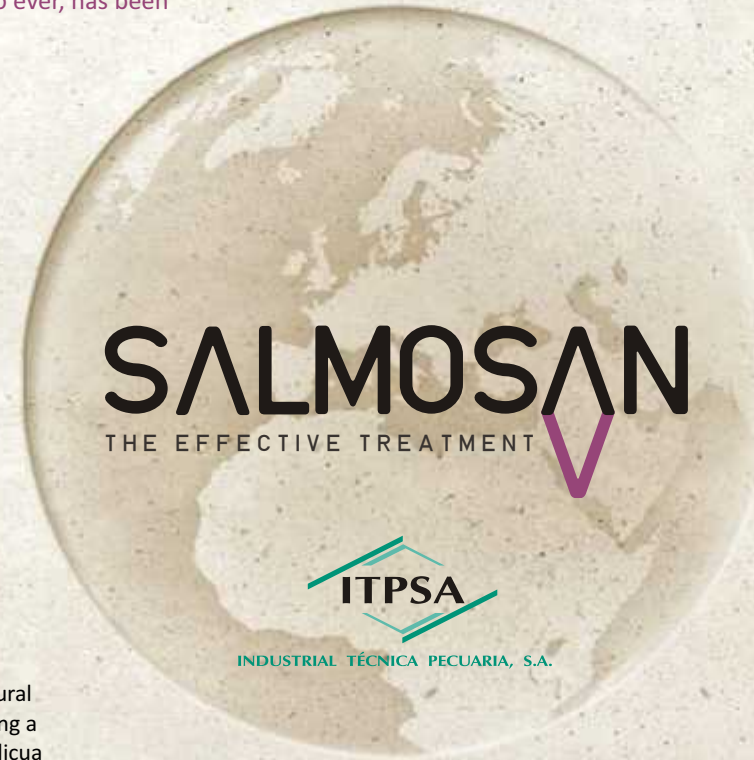
#### How SALMOSAN should be used

- Added directly to the feed and mixing thoroughly.
- Recommended for all the productive period.
- Dosage for the first 2 - 3 weeks:

POULTRY	PIGS
Broilers: 1 kg/Tm	Piglets: 1 kg/Tm,
Layer Hens: 3 kg/Tm	Fattening pigs: 1-2 kg/Tm
Breeders: 5 kg/Tm	Breeders: 3 kg/Tm

0.5 - 1 kg/Mt all along the animal's life afterwards.

**6 KEYS OF THE NEW PRODUCT**  
SALMOSAN is a natural product, 100% vegetable origin, obtained from the Carob tree through a specific process of fractionation and purification. SALMOSAN is added to the feed, and its mechanism of action is based on the barrier concept, since it blocks the process of bacteria fimbrial adherence to the enterocyte, thus avoiding bacteria colonization at gut level, and creating a real and irreversible effect.



**5 MORE RESEARCH, BETTER SOLUTIONS**  
The development of SALMOSAN has been the result of team work between public and private research institutions and companies. These organisms are the IRTA (Research Institute of Agro-alimentary Technologies) and CIDEM (Business Centre for Innovation and Development), together with ITPSA.

