



SALMOSAN
THE EFFECTIVE TREATMENT

5.0 μ m

www.salmosan.com

THE NATURAL BARRIER AGAINST **SALMONELLA**

- Plant based prebiotic rich in galactomannans
- Blocks *Salmonella* adhesion to intestinal wall
- Tested in several *in vivo* trials



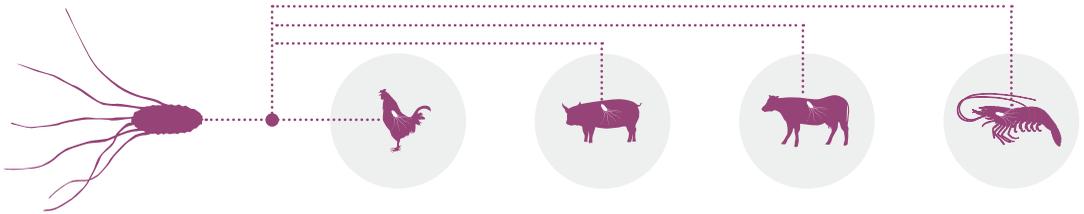
www.itpsa.com



A high efficacy natural protection against *Salmonella*

Salmosan® is a plant-derived patented product rich in β -galactomannans that prevents the invasion of the intestinal wall by *Salmonella spp.* while keeping both the integrity of the intestinal tract and the barrier effect against other pathogens. **Salmosan®** also shows prebiotic and immunostimulant effect.

Salmosan® protection is also effective against other microorganisms that use fimbriae to adhere to the intestinal mucosa like *Salmonella* does (Ex: *Vibrio parahaemolyticus*, *E.coli*, etc.).



¿Why is so important to combat *Salmonella* in livestock?

Implications:

- **It is a serious food safety problem:** one of the most important zoonosis
- **It has implications in international trade of animal products:** many countries have control programs
- **There is an increase of antimicrobial resistant strains:** current global trend for a better use of antibiotics in animal production



Salmosan® helps fighting salmonellosis

In this context, the use of feed additives of natural origin (as those rich in non-digestible oligosaccharides, in particular of galactomannans) has shown to be an effective complement to other measures implemented in farms in order to control the infection, like strict hygiene, biosecurity and farm management.



¿How can **Salmosan®** help?

Control measures for salmonellosis in the farm:



Hygiene	Prevents entrance and spread of <i>Salmonella spp.</i> within the facilities
Biosecurity	
Farm Management	
Salmosan®	Increases resistance of animals to <i>Salmonella spp.</i> infection

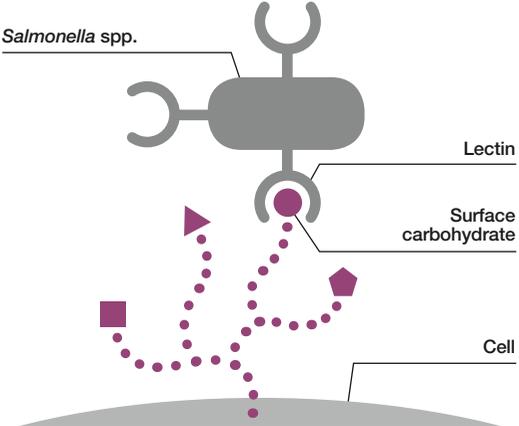
Better protection



Salmosan® has shown to be highly effective protecting animals against *Salmonella spp.*

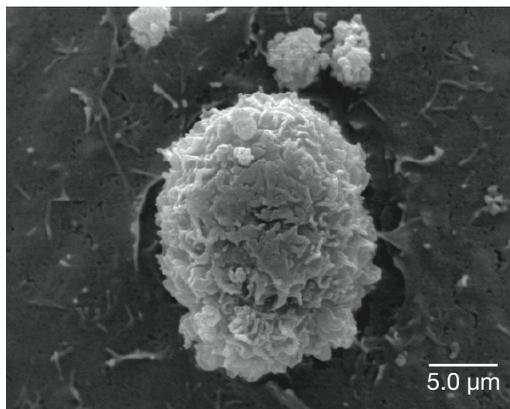


Salmosan® is the effective treatment for salmonellosis because:

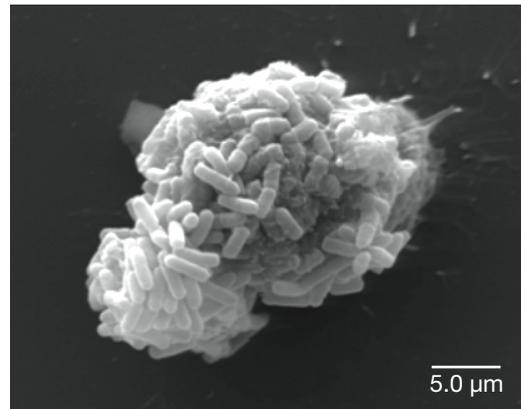
¿How does it act?	Effects	Results against <i>Salmonella</i> spp.
<p>Blocks <i>Salmonella</i> fimbriae</p>	<p>Prevents bacterial adhesion to the enterocyte and thus bacteria are eliminated in the feces:</p>  <p>Salmosan® adheres to type-I fimbriae of <i>Salmonella</i> because its carbohydrates composition is similar to the receptor in intestinal mucosa.</p>	<p>In the farm: Lower risk of fecal shedding</p> <p>▼</p> <p>In slaughterhouse: Less carrier and shedder animals</p> <p>▼</p>
<p>Prebiotic effect*</p>	<p>Stimulates growth of beneficial intestinal bacteria</p>	<p>REDUCTION OF CONTAMINATED CARCASSES</p>
<p>Immunostimulation*</p>	<p>Improves local and systemic immunity</p>	

*[Badia et al., 2012]

Salmosan® electronic microscope images.



Salmosan®: detail of its highly-roughed surface with a high adsorption capacity.



Salmosan® blocking *Salmonella* spp.

Source: IRTA (2012)



With ITPSA's warranty and rigor

ITPSA commitment to research and development of new high quality and reliable products have granted us recognition in more than 50 countries around the world.

Scientific evidence demonstrates its superior efficacy protecting animals.

Trust Salmosan®:
the effective strategy against salmonellosis.



One product for each need



CAPTOX
Mycotoxin adsorbent



ATOX
Mycotoxin adsorbent



CAPSANTAL
Natural pigments



DIGESTOCAP | LACTICAP
Acidifiers



CAPSOZYME
Enzymes



FUNGICAP
Mold Inhibitors



CAPSOQUIN | OXICAP
Antioxidants



SALCAP
Antimicrobials



FLAVORAL | SUGARCAP
Flavours



CAPSOMIN | CAPSOGENIN | SALMOSAN
Specific supplements



**Industrial Técnica
Pecuaría, S.A.**

Av. de Roma 157 7ª planta
08011 Barcelona
Tel +34 934 520 330
Fax +34 934 520 331
itpsa@itpsa.com
www.itpsa.com

