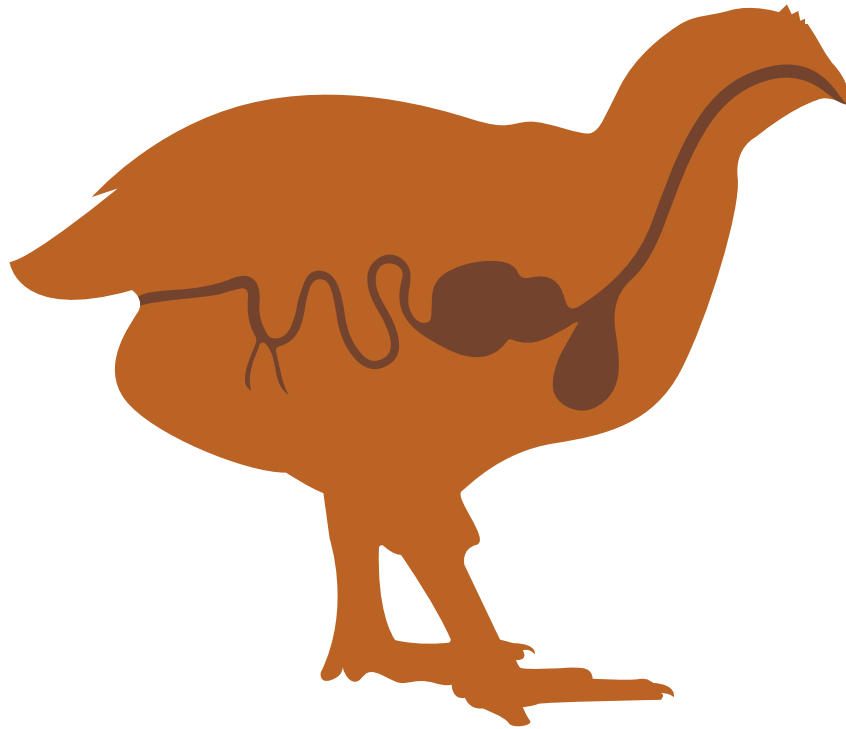


Tanno-SAN

Soluble water extract from sweet chesnut wood,
rich in hydrolysable tannins



Tanno-SAN

Tanno-SAN, a sweet chestnut tannins extract, offers a unique mode of action that effectively controls pathogens, resulting in substantial cost savings for the poultry and pig industry, amounting to millions of Euros.

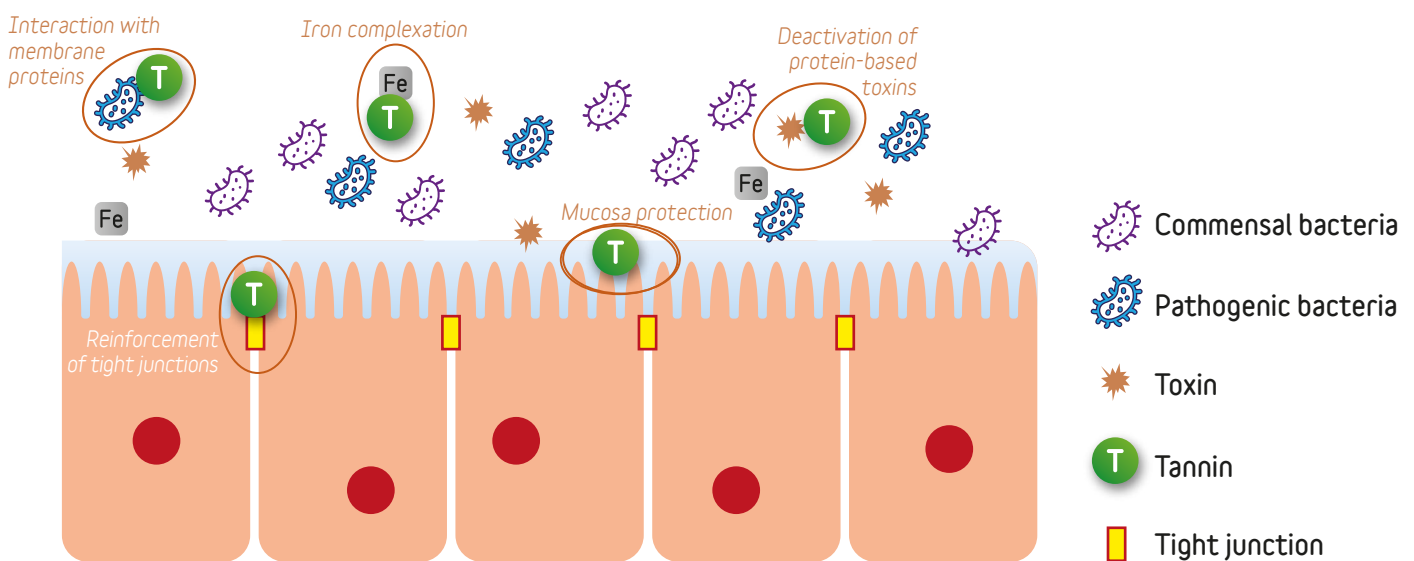
Advantages of feeding Tanno-SAN:

- Helps to maintain the natural balance of the intestinal flora
- Improving production performance thanks to a controlled protein availability
- Helps to maintain manure and quality litter
- Lowering incidence of foot-pad lesions as a result of drier litter
- Forms a protective film on the mucosa
- Stimulates anti-oxidative activity
- Supports the immune system

Broiler trial data shows that, on average, Tanno-SAN generates *350€ extra profit per 10000 animals, an ROI of 1:7.

*indicative , can vary depending on prices and conditions

Tanno-SAN Mode of actions



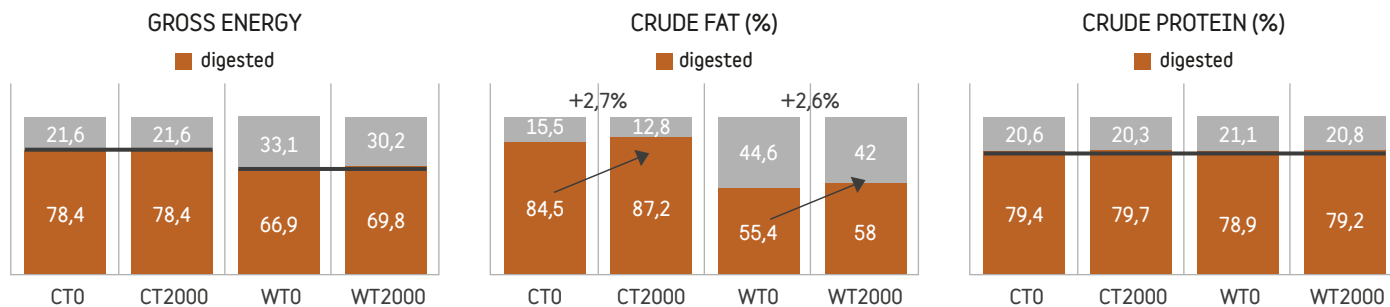
Tanno-SAN, a canopy of protection, created by nature!

Tanno-SAN selectively inhibits pathogenic *E.Coli*, *Salmonella* and *Clostridium perfringens*, does not affect beneficial bacteria like *Enterococcus*, *Lactobacilli*.

Affinity with glycoprotein from mucosa will reinforce the mucus layer. This prevents bacteria attachment and proliferation.

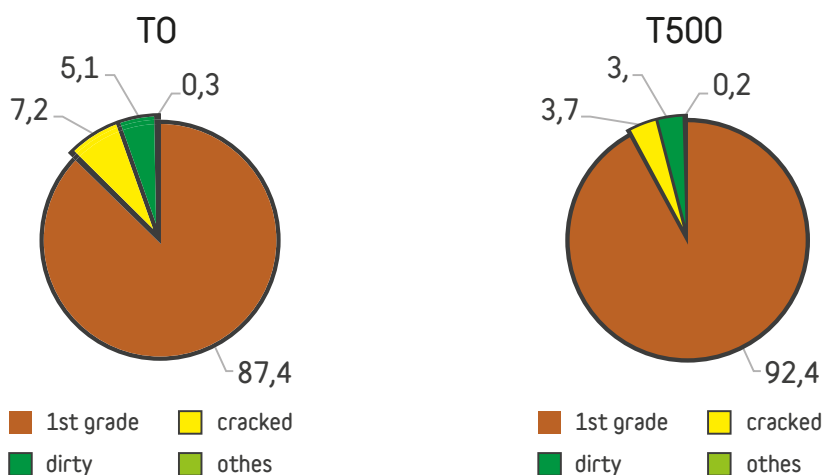
Tanno-SAN also exhibits positive benefits on the immune system, acting as an antioxidant thus reducing free radical formation in cells.

Are hydrolysable tannins anti-nutritional ?



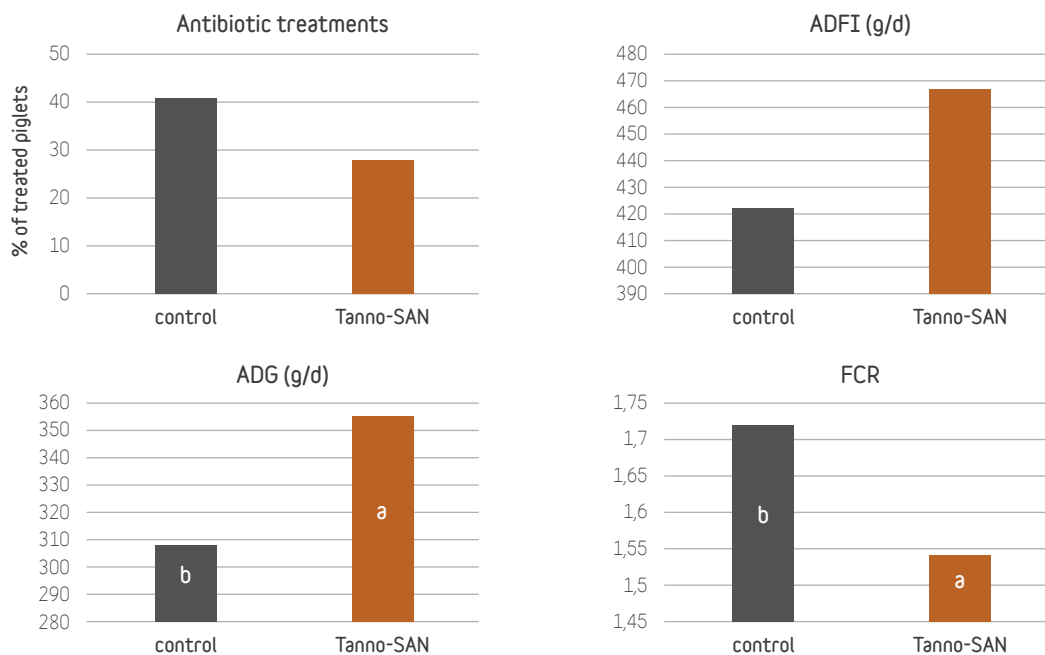
ILVO-Belgium (2021), 4 treatments x 18 pens/T x 3 birds/pen, (C): corn soy; (W): wheat-rapeseed-palm oil; T: control group; T2000: Tanno-SAN at 2 kg/ton

Tanno-SAN reduce the percentage of downgraded eggs



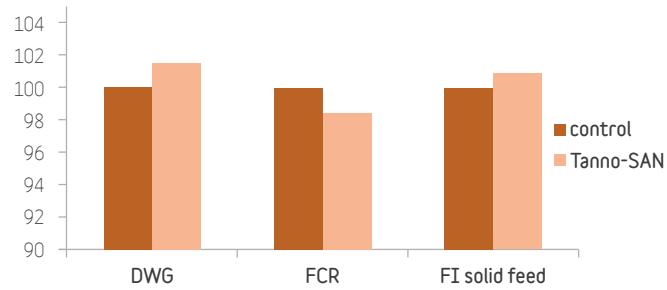
ILVO, Belgium 2023 The pursuit of understanding hydrolysable tannins in poultry nutrition, PhD K.Buysse Control group: without additives, T500: Tanno-San at 500g/ton

Tanno-SAN improves piglets performance



Ghent University, Adagio project, Belgium 2021, Piglets trial. 2 Treatments (T) x 10 pens/T x 6 piglets/pen. control; Tanno-SAN 1,5kg/ton

Tanno-SAN in solid feed in calves improves DWG and FCR



INRA, France 2012; calves trial, 72 veal calves, 2 treatments: control & Tanno-SAN 0.2%

Dosage recommendations:

An infographic with five white boxes, each containing an animal silhouette and dosage recommendations. The boxes are arranged in two rows: three in the top row and two in the bottom row.

- Chicken:** STARTER (0 - 14 days): 500 g/t; GROWER (14 - 28 days): 750-1000*g/t (CP -Necrotic enteritis- Wet Litter); FINISHER (28 - 42 days): 500-750** g/t (antioxidants-functional products)
- Turkey:** Day 1 to slaughter: 1000-2000 g/t
- Hen:** Rearing and laying: 400-800 g/t
- Pig:** Piglets: 1,5 to 2,5 kg/t; Fattening pigs: 1,0 to 2,0 kg/t; Sows: 0,5-1,0 kg/t
- Calf:** Calf starter: 1- 3 kg/t; Milk (replacer): 1 - 2 kg/t; Per head per day: 5 - 15 g/h/d



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