

MORE NATURE TO LIFE

Swine

+ HEALTH + PERFORMANCE

PATURA

CHANKA PALADA

CHES

E + TAACT

Exclusively distributed in Australia by:





PRODUCED BY

and mile when the second of the state of the second and the second s

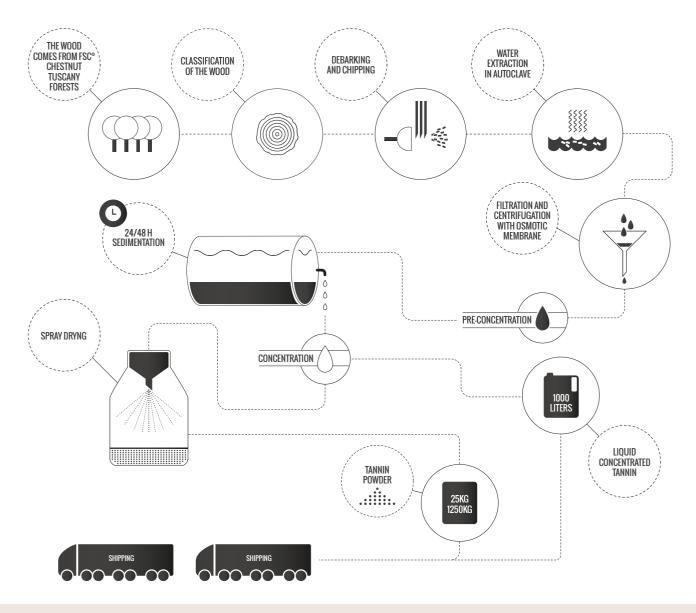


Saviotan® Feed is an additive for animal nutrition. Saviotan® Feed is a natural chestnut extract, rich in hydrolysable tannin.

Production takes place in Radicofani, Tuscany, Italy. Woods come from FSC certified forests located in Tuscany.

Chestnut tannin is obtained by water extraction from chestnut wood, by an environmentally sustainable unique process.

Production flow chart



Radicofani manufacturing plant, Gruppo Mauro Saviola srl, is FAMI-QS, GMP+ and UNI EN ISO 22000 certified.





GMP



Saviotan[®] Feed for a potent upgrading effect on the metabolic utilization of absorbed nitrogen & for reducing urinary nitrogen

A trial on digestibility and balance of nitrogen has been performed in Milan (unpublished). 18 castrated male pigs, 153 Kg average weight, were divided into 3 groups, 6 animals each. Control group receive a diet at 14% crude protein; treated group received a diet at 12% crude protein, added with 0.53% of Saviotan[®] Feed.

Addition of Saviotan® Feed in growing pigs allows a better utilization of feed proteins: four points percentage more (39% versus 35%).

Saviotan[®] Feed allows to fed pigs with a diet at low protein level; in Milan trial a diet at 12,3% of Nitrogen has been used instead of 14,2%.

The use of Saviotan[®] Feed guarantees a low nitrogen content (volatile nitrogen substances) in urine and better-quality excreta.

The presence of Saviotan® Feed did not alter the palatability of the feed.

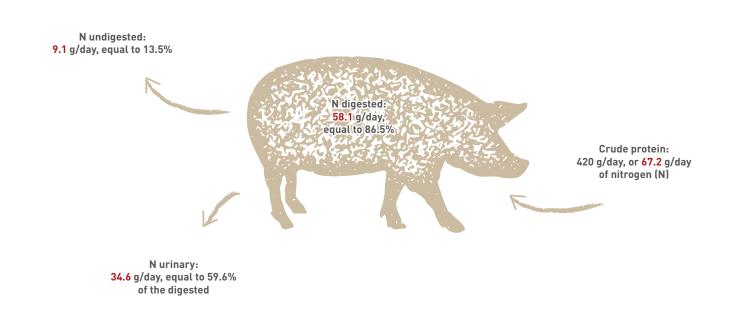
Witout Saviotan® Feed gains at 35% (23.5*100/67.2)

	Entry (g/day)	Exit (g/day)	Gain (g/day)
Feed	67.2		
Feces		9.1	
Urine		34.6	
Retained			23.5
Total	67.2	43.7	23.5

With Saviotan® Feed gains at 39% (23.0*100/58.5)

	Entry (g/day)	Exit (g/day)	Gain (g/day)
Feed	58.5		
Feces		9.4	
Urine		26.1	
Retained			23.0
Total	58.5	35.5	23.0

Without Saviotan® Feed



Saviotan[®] Feed for diarrhoea control

Numerous stress factors are associated with weaning, including social, environmental and dietary changes. These stress factors can alter the homeostasis of intestinal microflora, rendering young piglets more inclined to gastrointestinal tract infections. The etiology of post-weaning diarrhea is multifactorial, although it is commonly associated with the proliferation of beta-gemolytic enterotoxigenic *Escherichia coli* (ETEC), sometimes in association with rotavirus infections. Chestnut tannin extract is a good candidate for decreasing post weaning diarrhea because it already possess *in vitro* bactericidal activity on several bacteria. The additivon of hydrolyzed tannins reduced the average fecal score, the percentage of piglets in diarrhea and the duration of diarrhea whereas feed intake and average daily gain are unaffected. [Girard et al., 2018].

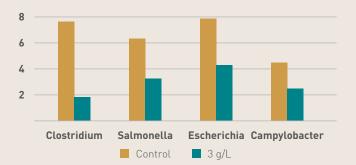
Saviotan[®] Feed controls diarrhoea also through its antispasmodic effect (it slows the peristaltic movements of the intestine).

[Budriesi et al., 2010].

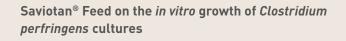
Saviotan[®] Feed for intestinal microbiota control

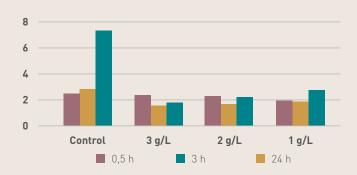
Saviotan[®] Feed interferes with the development of bacteria and parasite in gut because it complexes membrane protein altering the permeability of the cellular membrane. Saviotan[®] Feed antimicrobial activity was tested *in vitro* on *Salmonella typhimurium*,

Saviotan[®] Feed on the *in vitro* growth of the four bacteria at 24 hours



Escherichia coli, Campylobacter jejuni and *Clostridium perfingens.* Not all the four bacterial colonies reacted to Saviotan[®] Feed in the same way: *Escherichia coli* resulted the least sensitive and *Clostridium perfingens* the most sensitive.





[Antongiovanni, M., et al., 2018. Saviotan® Feed as an antimibrobial agent. World Poultry Science Journal]

Saviotan[®] Feed for its antioxidant properties

Saviotan[®] Feed is a polyphenol and exhibits greater antioxidant activities than simple phenolics: the number of hydroxyl groups and the degree of polymerization of tannin are considered to be correlated with their ability to scavenge free radicals. Antioxidant activity has been evaluated *in vitro* by using Folin-Ciocalteu reagent. The results are expressed as total phenol content, measured as GAE (Gallic Acid Equivalents) which is considered to have an excellent correlation with the *in vitro* antioxidant activity.

FOLIN-CIOCALTEU (GAE equivalent, mg/g)				
Saviotan® Feed	57.0			

[Campo et al., 2015. Hydrolysable Tannins from Sweet Chestnut Fractions Obtained by a Sustainable and Eco-friendly Industrial process. Nat. prod. Commun. 11:409-415].

Saviotan[®] Feed technical data sheet

CHARACTERISTIC	METHOD OF ANALYSIS	MEASURE UNIT	SPECIFICATION
Description	Visual	/	Free flowing dark brown powder
Tannin content	ISO 14088	% w/w	Min 75
рН	Internal method n. LAB 004		3.2 ±0.2

Saviotan® Feed for use in animal feedingstuffs

Recommended instruction for use: Piglets post weaning: 1.3 – 1.8 Kg/ton Grower: 0.5 – 1.0 Kg/ton Finishing: 0.30 – 0.75 Kg/ton



MORE NATURE TO LIFE

Exclusivelty distributed in Australia by:

PRIME ANIMAL HEALTH

Level 8, Chadstone Tower 1 1341 Dandenong Road, Chadstone, Victoria, AUSTRALIA 3148 Tel: +61 3 9809 4334 Email: sales@primeanimalhealth.com.au



Animal Health

Saviolife

Viale Lombardia, 29 46019, Viadana (MN) – Italy Mail: info@saviolife.com Phone: +39 0375 7871 Fax +39 0375 787200



www.saviolife.com www.saviotanfeed.com



