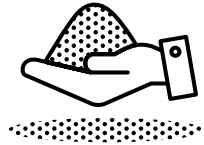


A powerful mycotoxin mitigation program!



SAN-Protect Plus is a unique blend of hydrated sodium calcium aluminosilicates (HSCAS) in combination with pyrolyzed charcoal, showing high toxin binding properties towards endotoxins, polar and non-polar mycotoxins. Apart from these binding properties, SAN-Protect Plus also reinforces the intestinal barrier avoiding adsorption.

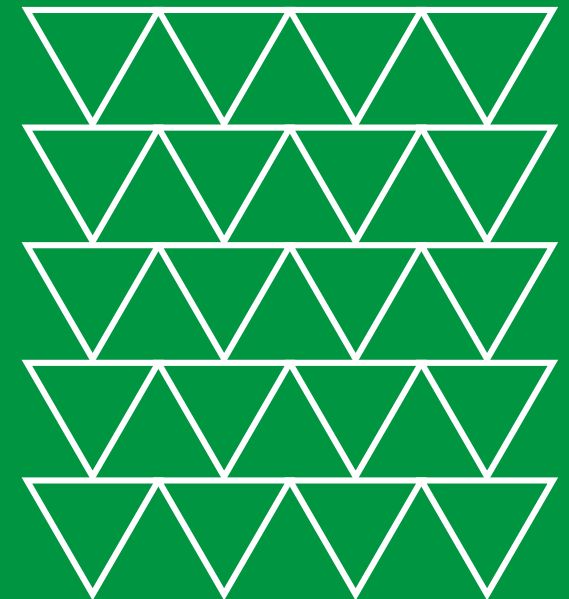
- × Active against a broad range of mycotoxins
- × Adsorbing endotoxins
- × High net binding efficiency
- × No nutrient binding
- × Inert and heat stable

SAN-Protect Plus is recommended if contamination levels of DON and/or ZEA are respectively above 2500 ppb and 500 ppb.



SAN-Protect Plus

A powerful mycotoxin mitigation program!



SANLUC INTERNATIONAL NV

Langerbruggekaai 1, 9000 Gent, Belgium

+32 9 252 69 21

www.sanluc.be





Piglet trial: effect of SAN-Protect Plus on DON and Fumonisin contaminated feed

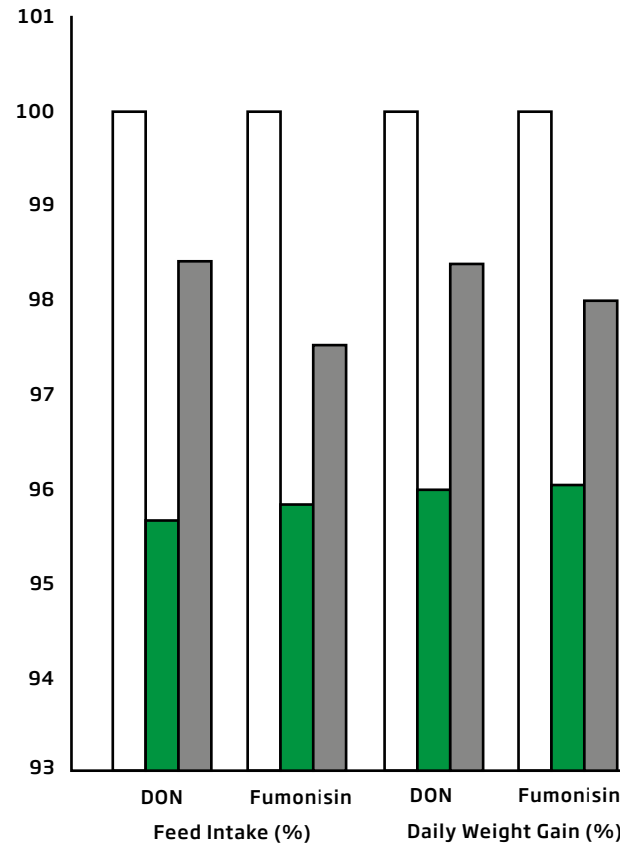
Broiler trial No nutrient binding by SAN-Protect Plus

Mycotoxins can negatively impact all stages of animal production resulting in reduced growth, feed efficiency, breeding performance, milk production and increased somatic cell count.

When mycotoxins impact growth and production levels, profitability is also altered. Based on the 2015 North America Harvest Analysis and prediction equations derived from research publications, the following impacts were calculated:

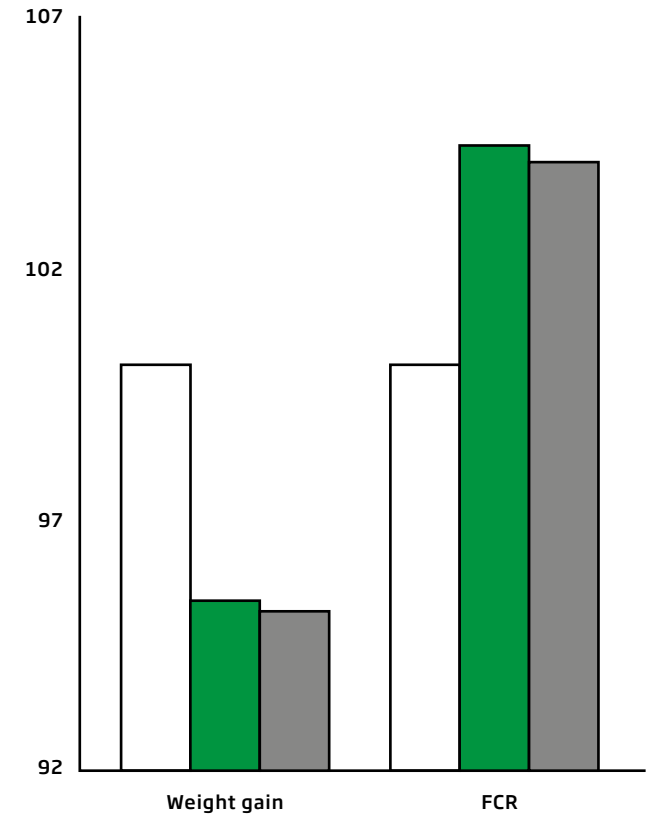
- × Potential 6.8 g/day loss of daily gain in nursery pigs
- × Potential 24g/day loss of daily gain and a 14% increase in feed conversion rate in finishing pigs
- × An estimated average loss of €2,71 per pig carcass
- × A 5% increase in feed conversion rate in poultry
- × Reduced egg production of 3,8 eggs/hen
- × Estimated loss in milk production of 0,6l per cow per day

Analysis carried out constantly by both private companies and public authorities demonstrate that mycotoxins can contaminate more than 80% of cereal crops, sometimes even up to 100%.



Relative %
 □ Neg. Control
 ■ Pos. Control
 ■ Pos. Control + 3kg/T SAN-Protect Plus

Adaeso - Maiz'Europe J.G. - France - 2004
 Level of contamination pos. control: 2000 ppb DON and 50 ppm Fumonisin



Relative %
 □ Control
 ■ Diluted 3%
 ■ Pos. Control: Diluted 3% + SAN-Protect Plus

CLO-DVV - M. Lippens and G. Huyghebaert - Belgium, 2003

Total: 1536 birds - Trial: 0 - 42 days.
 Diluted 3% = negative control diluted by 3%
 Positive control: Diluted + SAN-Protect Plus (3kg/T)