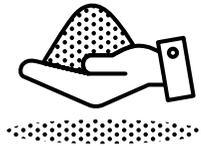


# Unique blend of Hydrated Sodium Calcium Aluminosilicate (HSCAS)



SAN-Protect is an unique blend of hydrated sodium calcium aluminosilicates (HSCAS) showing high protection against mycotoxin contamination. Apart from tightly binding aflatoxins, preventing aflatoxicosis in animals, this unique combination of montmorillonite and ambrosite adsorbs a range of both polar and non-polar mycotoxins.

Next to these binding properties, SAN-Protect also reinforces the intestinal barrier avoiding adsorption.

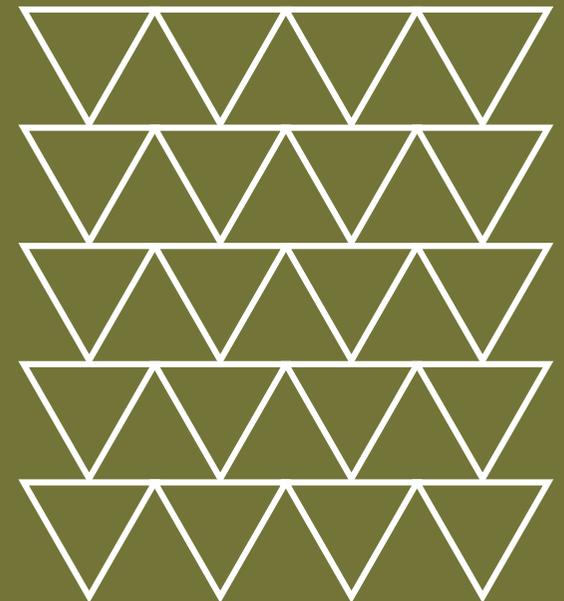
## Proven efficacy:

- × Against polar and non-polar toxins
- × Specifically against Fusarium toxins
- × High net binding efficiency
- × No nutrient binding
- × Inert and heat stable



# SAN-Protect

Protection by nature!



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## SAN-Protect - Binding of mycotoxins - Net Efficiency

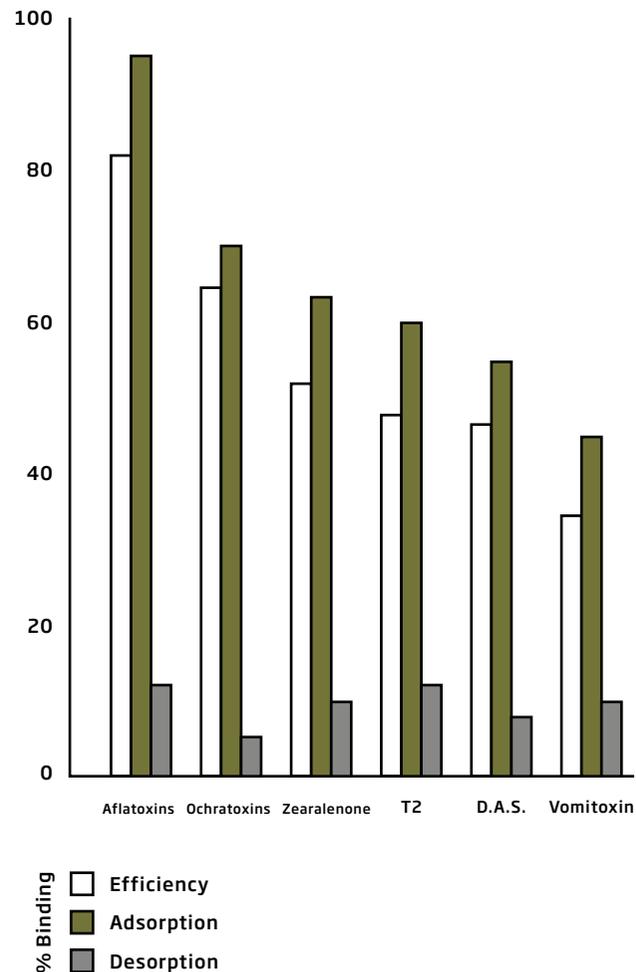
## Effect of SAN-Protect on the DON mycotoxin level in pig serum

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

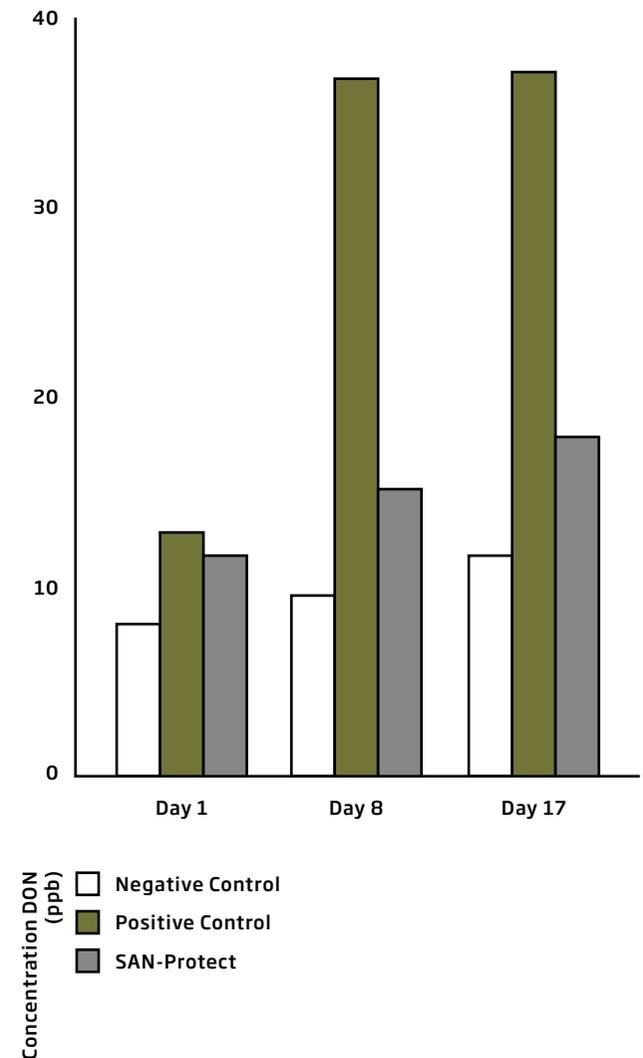
When mycotoxins impact growth and production levels, profitability is also altered. Based on the 2015 North America Harvest Analysis and prediction equations derived from research publications, the following impacts were calculated:

- × 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 by 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%.



*Dra. Sala de Miguel, Argentina - 1996  
Official method of A.O.A.C (HPTLC)*



*HO-Gent, department of biotechnologies - Belgium, 2005  
Positive control = contaminated feed (DON: 1600 ppb)  
SAN-Protect = positive control + 1,5kg/T SAN-Protect*