

# Alltech® MYCOTOXIN MANAGEMENT



## Impact of Mycotoxins on Sows and Gilts

Mycotoxins are produced by moulds in the field, at harvest and during storage. They affect animal performance and producer profitability in a number of ways.

### How do mycotoxins affect sows and gilts?

#### REPRODUCTION

- Altered heat cycles or onset of sexual maturity
- Vaginal swelling or prolapses
- Infertility
- Increased abortion or stillbirth rates
- Variation in litter size and piglet body weight
- Milk contamination

#### GUT HEALTH

- Damage to gut integrity (decreased villi height and surface area)
- Ulcers and haemorrhaging
- Increased gut pathogens
- Lower feed intake
- Poor intestinal digestion and absorption of feed
- Inconsistent faeces quality

#### IMMUNITY




- Poor antibody production/vaccine titers
- Reduced cell-mediated immunity
- Altered cytokine profile
- Increased duration of diseases
- Increased mortality rates

#### ORGAN DAMAGE




- Liver and kidney damage
- Liver enlargement or fatty liver
- Bile duct hyperplasia
- Uric acid crystals in kidneys and joints (gout)
- Pulmonary oedema (fluid accumulation in the lungs)
- Heart enlargement and failure
- Brain damage

### How much can mycotoxins cost sow and gilt producers?

Average REQ for global finished feed for swine for Q1/Q2.  
REQ average for sows = 144

-  ↓ 1.13 decrease in number of piglets born alive/ litter  
Range: -2.2 to -0.5
-  ↑ 7.75% increase in number of piglets born dead/ litter (mummies and stillbirths)  
Range: 6.4% to 9.1%
-  ↓ \$33.09 decrease net return/sow/year  
Range: 0 to \$53.66

### What you could save with the Alltech Mycotoxin Management Program

-  ↑ 1.20 increase in number of piglets born alive/ litter
-  ↓ 4.9% decrease in number of piglets born dead/ litter
-  ↑ \$76.50 increase net return/sow/year during a mycotoxin challenge

**ROI\* = 20:1**

\*Based on inclusion rate of 2 kg/ton of complete feed

#### RESEARCH

Total number of pigs = 98 | pigs fed control diet = 36 | pigs fed mycotoxin contaminated feed = 34 | pigs fed mycotoxin contaminated feed + MYCOSORB = 28

References: Diaz-Llano and Smith, 2006; Diaz-Llano and Smith, 2007; Jakovac-Strajn et al., 2009; Weaver et al., 2013



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**MANAGEMENT**

**MYCOSORB A+®**

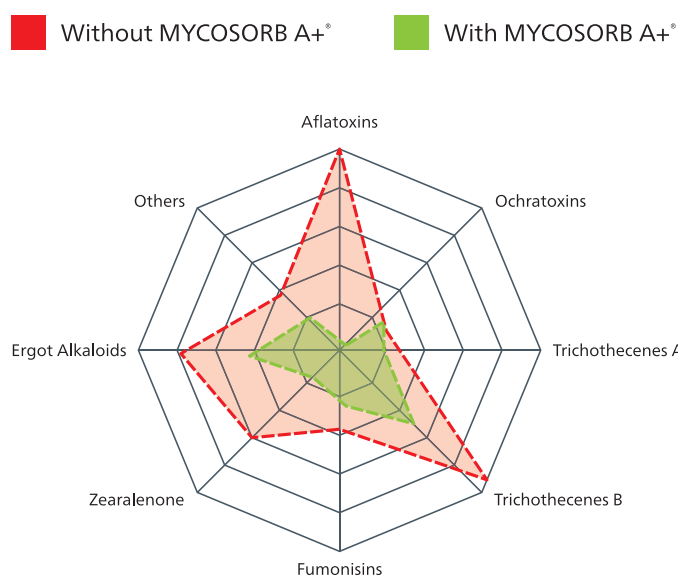


MYCOSORB A+® reduces mycotoxin absorption, negating the damaging effects of mycotoxins on the health and performance of animals.

- A proven, broad spectrum mycotoxin binder, which tackles mycotoxin challenges as a whole rather than dealing with individual mycotoxins
- Fast acting, interacts with mycotoxins within 10 minutes
- Effective at a low inclusion level
- Proven by scientific research
  - 159 peer – reviewed published studies
  - 109 published *in vivo* trials
  - 22 published *in vitro* mode of action trials

MYCOSORB A+®, from ALLTECH®, offers producers a solution that limits the effect of more mycotoxins than ever before.

The graph on the right shows the risk associated with mycotoxin contamination in a particular feed sample with and without MYCOSORB A+®.



**TAKE THE MYCOSORB A+® CHALLENGE**

Feeding rate: 0.5 - 2 kg/t

Feeding rate varies based on mycotoxin risk level in feed and life stage of the animal.

Alltech's Mycotoxin Management Program is designed to reduce risk while improving performance and profitability for individual animals. Actual results may vary. Program response and ROI will depend on specific farm scenarios.



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