

# Alltech® MYCOTOXIN MANAGEMENT



## Your flock is your business. Protecting it is ours.

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 layers?

#### REPRODUCTION

- Reduced fertility rates
- Decreased egg production and egg quality
- Creamy yolks

#### GUT HEALTH

- Damage to gut integrity (decreased villi height and surface area)
- Lower feed intake
- Poor intestinal digestion and absorption of feed
- Inconsistent faeces quality
- Necrotic enteritis/cocci infection/bacterial infections

#### IMMUNITY

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

#### ORGAN DAMAGE

- Gizzard erosions
- Oral lesions, ulcers and plaques
- Liver and kidney damage
- Liver enlargement or fatty liver
- Bile duct hyperplasia
- Uric acid crystals in kidneys and joints (gout)

### How much can mycotoxins cost layer producers?

- ● ↓ 0.69 decrease in number of eggs/hen/week  
Range - 2.23 to 0.01
- ● ↓ 1.28 g decrease in egg weight  
Range - 3.19 to 0.09
- 🌾 ↑ 0.38 increase in feed conversion ratio (FCR)  
Range - 0.45 to 2.68
- \$ ↓ \$0.06 decrease in net return/hen/week  
Range - \$0.20 to \$0.001

### What could you save with ALLTECH MYCOTOXIN MANAGEMENT?

- ● ↑ 0.24 increase in number of eggs/hen/week
- ● ↑ 0.83g increase in egg weight
- 🌾 ↓ 0.9 decrease in FCR
- \$ ↑ \$0.18 increase in net return/hen/week  
compared to mycotoxin challenged birds

**ROI\* = 2.5 :1**

\*Includes average product cost of \$0.01/hen/week

#### RESEARCH:

Total number of hens = 496 | hens fed control diet = 118 | hens fed mycotoxin contaminated feed = 258 | hens fed mycotoxin contaminated feed + MYCOSORB = 120

References: Manoj and Devegowda, 1999; Chowdhury and Smith, 2004; Pandey and Chuhan, 2007; Aly and Anwar, 2009



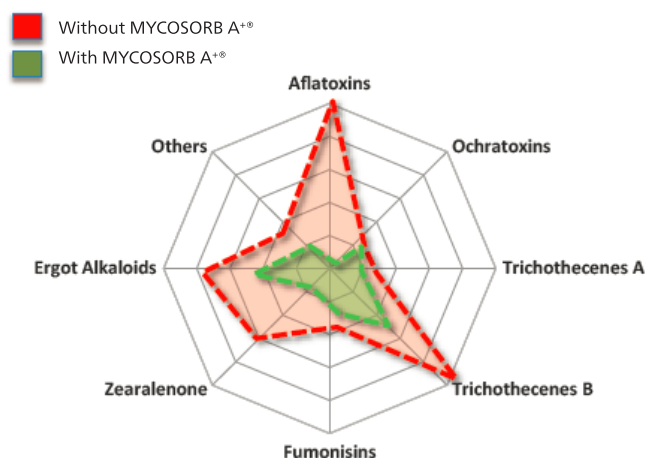
# MYCOSORB A<sup>+</sup>®

MYCOSORB A<sup>+</sup>®, from ALLTECH®, is Europe's number 1 authorised mycotoxin binder. MYCOSORB A<sup>+</sup> 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
  - 7 functional carbohydrates
  - 11 studies supporting mode of action
  - 65 studies supporting efficacy in animals

MYCOSORB A<sup>+</sup>®, 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<sup>+</sup>.



## Take the MYCOSORB A<sup>+</sup> challenge

Feeding rate: 0.5 - 2 kg/t

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

\*Article 13, Regulation (EC) No. 767/2009

ALLTECH'S MYCOTOXIN MANAGEMENT program is designed to reduce risk while improving performance and profitability for individual herds. Actual results may vary by herd. Program response and ROI will depend on specific farm scenarios.

ALLTECH EUROPEAN HEADQUARTERS  
Sarney | Summerhill Road | Dunboyne | Co. Meath | Ireland  
Tel: +353 (0) 1 825 2244 | Fax: +353 (0) 1 825 2245

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