

Alltech® MYCOTOXIN MANAGEMENT



Impact of Mycotoxins on Layers

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?

Data based on average REQ for global finished feed for poultry for 2018 Q1/Q2/Q3. REQ average for layers = 58



↓ 4.6 egg/hen decrease over 64 weeks
Range - 5.1 to 8.5



↓ 0.61g decrease in egg weight
Range - 0.77 to 1.32g



↓ \$0.35 decrease in egg profit loss per hen.
Range - \$0.38 to \$0.65/hen

What you could save with the Alltech Mycotoxin Management Program



↑ 2.17 increase in eggs/hen over 64 weeks

ROI* = 1.5:1

*Product inclusion rate of 1 kg/ton

RESEARCH

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

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



Alltech®
MYCOTOXIN
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+®.

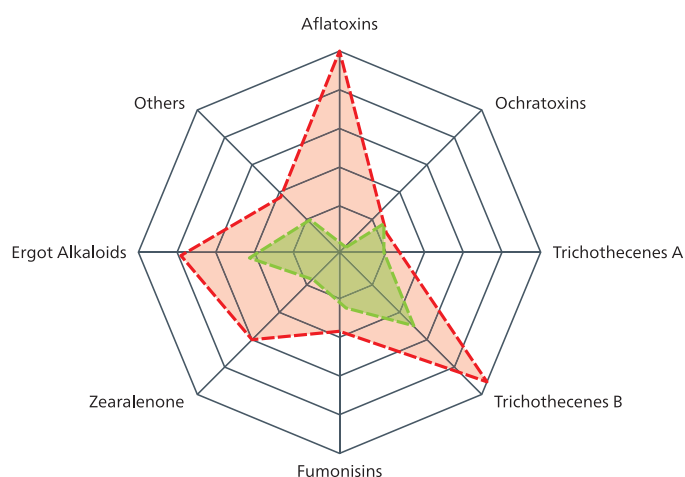
TAKE THE MYCOSORB A+® CHALLENGE

Feeding rate: 0.5 - 2 kg/t

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

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.

■ Without MYCOSORB A+® ■ With MYCOSORB A+®



ANIMALS ARE YOUR BUSINESS.
 PROTECTING THEM IS OURS.

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