

Alltech[®] MYCOTOXIN MANAGEMENT



Impact of Mycotoxins on Broilers

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 broilers?

GROWTH / MEAT PRODUCTION

- Blood spots in meat
- Feathering abnormalities
- Decreased growth rates and altered efficiency
- Group variation in body weight of birds
- Inefficient processing at the slaughter house

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 could mycotoxins cost broiler producers?

Estimate based on the mycotoxin impacts observed in published scientific research and the three year average Alltech REQ for global broiler feed (REQ average for broilers = 77).

- 🐔 ↓ 1.77 g/day decrease in average daily gain/bird
- 🌾 ↑ 2.1% increase in feed conversion ratio (FCR)
- 💰 ↓ \$0.11 decrease in profit/bird
- ☠️ ↑ increase 1.26% mortality rate

What you could save with the Alltech Mycotoxin Management Program

- 🐔 ↑ 1.23 g/day increase in average daily gain/bird
- 💰 ↑ 32 grams/bird potential carcass regained
- ☠️ ↓ 50% reduction in bird mortality rate

ROI* = 2.8:1

*Inclusion rate of 0.75 kg/ton

RESEARCH

Total number of birds = 2,156 | birds fed control diet = 729 | birds fed mycotoxin contaminated feed = 755 | birds fed mycotoxin contaminated feed + MYCOSORB = 672

References: Wang et al., 2006; Aravind et al., 2003; Raju and Devegowda, 2000; Awad et al., 2011; Yunus et al., 2012; Mohaghegh et al., 2017; Tessari et al., 2006; Liu et al., 2018; Liu et al., 2019; Mogadam and Azizpour, 2011.

ANIMALS ARE YOUR BUSINESS.
PROTECTING THEM IS OURS.

Knowmycotoxins.com

Alltech Mycotoxin Management

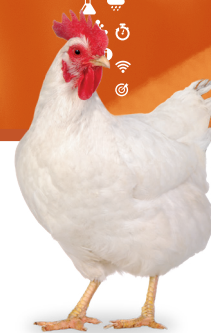
AlltechNaturally

@Alltech

GR 9658 ©2020. Alltech, Inc. All Rights Reserved.

Alltech®
MYCOTOXIN
MANAGEMENT

MYCOSORB A+®



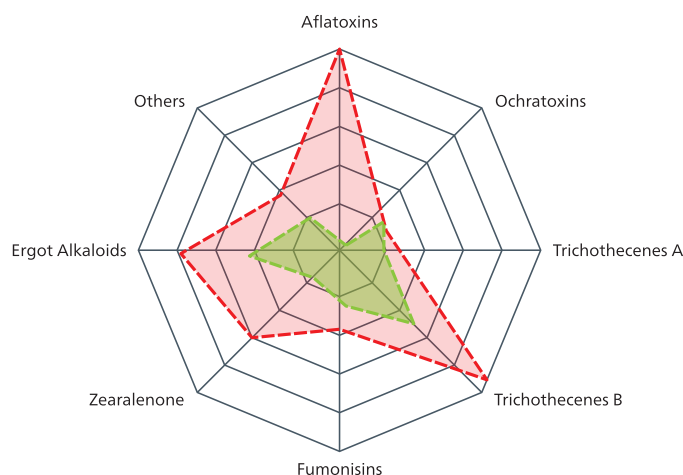
MYCOSORB A+® reduces mycotoxin absorption, negating the damaging effects of mycotoxins on the health and performance of animals.

- 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+®.

■ Without MYCOSORB A+® ■ With 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.



ANIMALS ARE YOUR BUSINESS.
 PROTECTING THEM IS OURS.

Knowmycotoxins.com

Alltech Mycotoxin Management

AlltechNaturally

@Alltech

GR 9658 ©2020. Alltech, Inc. All Rights Reserved.