



**Improve the performance  
of your birds from  
the inside out.**



#ScienceHearted

At ARM & HAMMER™ we think big on a microscopic level to deliver safe feed and food solutions that drive business forward. We're your #ScienceHearted, local-and-global, animal and food production team.

# In a global survey, 85% of feedstuffs sampled were contaminated with at least one mycotoxin.<sup>1</sup>



Poultry are particularly susceptible to the detrimental effects of mycotoxins in the diet, meaning that your flock's performance—and, ultimately, your profitability—could be taking a hit.

Ingested mycotoxins can damage the gut epithelial cell surface, compromising the bird's ability to block mycotoxins from entering its tissues and migrating to different organs.

**What if you could combat the constant mycotoxin challenge from the inside out, building resilience and consistently meeting flock productivity and performance goals?**



## **PREVENT NEGATIVE EFFECTS.**

Resist the detrimental impact of mycotoxins and gut cytotoxicity on your broilers, breeders, layers and turkeys to help birds meet their production potential.



## **PROTECT AT THE CELLULAR LEVEL.**

Get 'inside out' protection against gut cytotoxicity caused by a variety of mycotoxins.



## **BUILD RESILIENCE AHEAD OF CHALLENGES.**

Prepare your birds to meet unseen challenges which may be hidden in their ration.

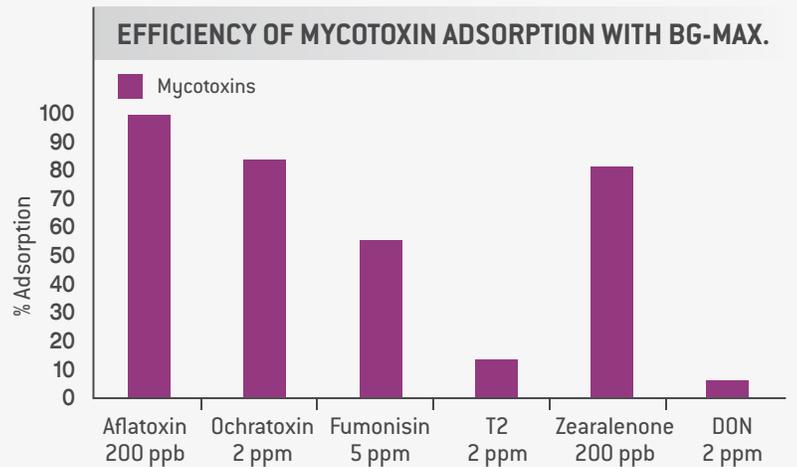
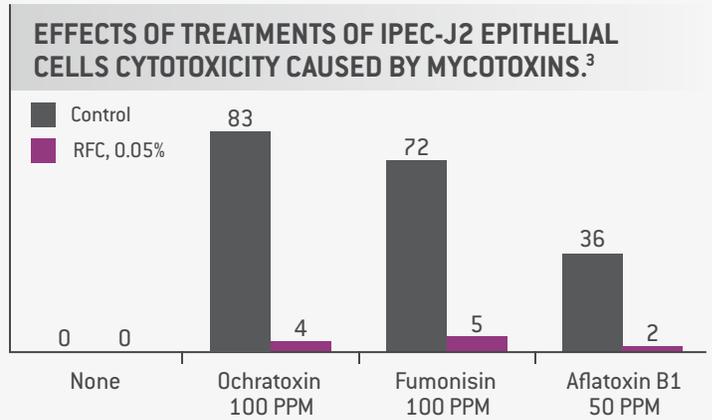
## **Only BG-MAX™:**

- 1** Delivers the benefits of Refined Functional Carbohydrates™ (RFCs™) to help birds take on mycotoxins and win, regardless of feed source
- 2** Is backed by research exhibiting the ability to block mycotoxins at the cellular level
- 3** Builds resilience ahead of challenges to help birds reach their production potential

## In vitro studies confirm performance.

In vitro studies have demonstrated that RFCs can prevent cytotoxicity caused by a variety of mycotoxins, as well as forage extracts containing them.<sup>2,3</sup>

Although not statistically analyzed, in vitro studies showed BG-MAX™ efficiently bound some of the most common mycotoxins.<sup>4</sup>



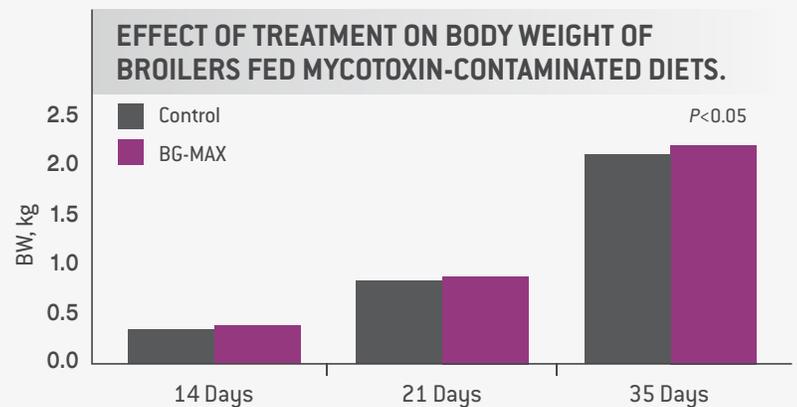
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## The proof is in the research.

In a moderate aflatoxin challenge trial<sup>5</sup>, male broiler chicks were fed one of two diets:

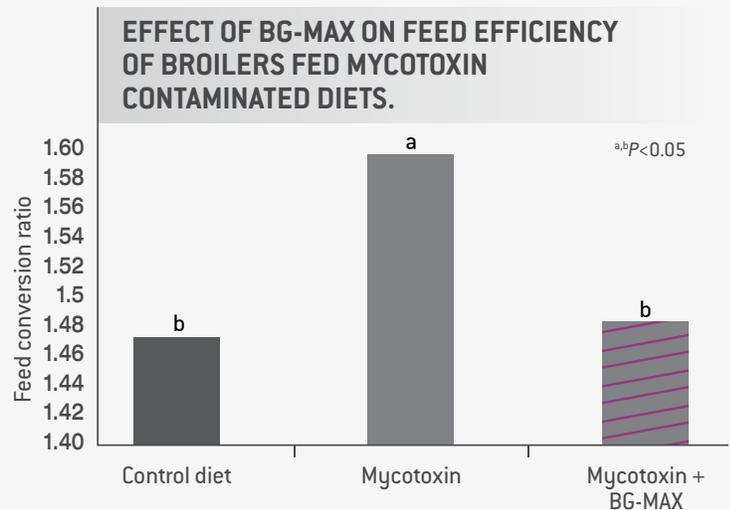
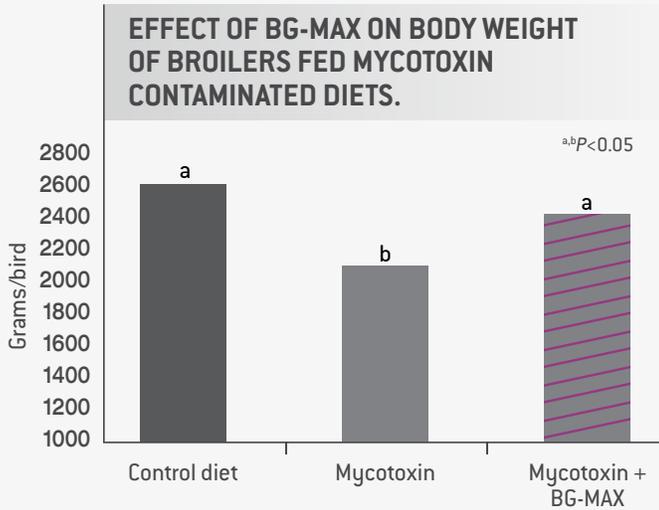
1. Aflatoxin and DON-contaminated diets with no additive (control).
2. Aflatoxin and DON-contaminated diets with BG-MAX.

Results found: Body weight at 35 days increased in birds fed the diet with BG-MAX compared to the control ( $P < 0.05$ ).<sup>5</sup>



## Consistently meet target weight goals.

In a second mycotoxin challenge study, RFC supplementation in broilers fed moderate levels of aflatoxin, DON and Zearalenone maintained body weight and feed efficiency.<sup>6</sup>



## Recommended feeding rates.\*

	Poultry (kg/MT)			Poultry (lbs/ton)		
	Layer	Broiler	Broiler/Breeder	Layer	Broiler	Broiler/Breeder
BG-MAX	1	1	1	2	2	2

\*Consult your nutritionist for your optimum feeding rates.



### We're #ScienceHearted and we're here for you.

We're ever-curious farm kids turned nutritional innovators, microbial pioneers and food safety game changers. We use scientific research to unlock the power of nature to create products that focus on you, your animals and worldwide food security. To learn more about BG-MAX™ ask your nutritionist, veterinarian or ARM & HAMMER™ representative or visit [AHfoodchain.com](http://AHfoodchain.com).

1 Global Mycotoxin Occurrence in Feed: A Ten-year Survey. *Toxins* 2019;11:375.

2 Baines, et al. A prebiotic, CELMANAX, decreases *Escherichia coli* O157:H7 colonization of bovine cells and feed-associated cytotoxicity *in vitro*. *BMC Research Notes* 2011;4:110.

3 Examining the anti-mycotoxic potential of RFCs against 3 different mycotoxins. ARM & HAMMER Final Report, RTI Laboratory, 2021.

4 ARM AND HAMMER S190641042 0.8% BG-MAX revised report. Data on file. 2019.

5 Nixon J, Grimes J, Brake J. Efficacy Of BG-MAX Supplementation In Mycotoxin Contaminated Diets Fed To Broilers. Department of Poultry Science, North Carolina State University. Research Bulletin P-89.

6 Effect of BG-MAX on broilers exposed to aflatoxin B1, zearalenone and deoxynivalenol. Fang Y, Han F, Fu Y, Jalukar S, et al. State Key Laboratory of Animal Nutrition, China Agricultural University. Report on file.