

**Keep mycotoxins from  
impacting performance  
and profitability.**



#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.

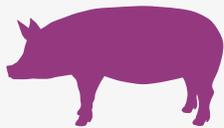
# In a global survey, 85% of feedstuffs sampled were contaminated with at least one mycotoxin.<sup>1</sup>



Swine are highly susceptible to the detrimental effects of mycotoxins in the diet, meaning that their production and reproductive performance—and, ultimately, your profitability—could be taking a hit.

Ingested mycotoxins can damage the gut epithelial cell surface, compromising the pig'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 productivity and performance goals?**



## **PREVENT NEGATIVE EFFECTS.**

Resist the detrimental impact of mycotoxins to help swine meet their production potential and improve reproductive performance.



## **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 pigs for unseen challenges which may be hidden in their ration.

## **Only BG-MAX™:**

- 1** Delivers the benefits of Refined Functional Carbohydrates™ (RFCs™) to help your pigs 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 animals reach their production potential

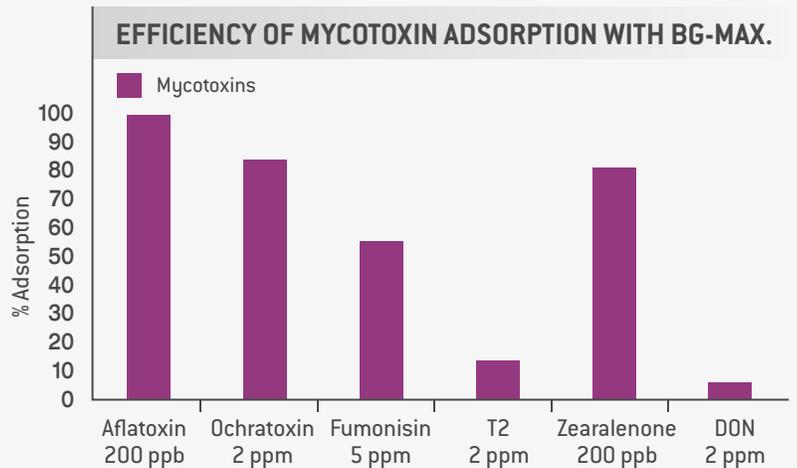
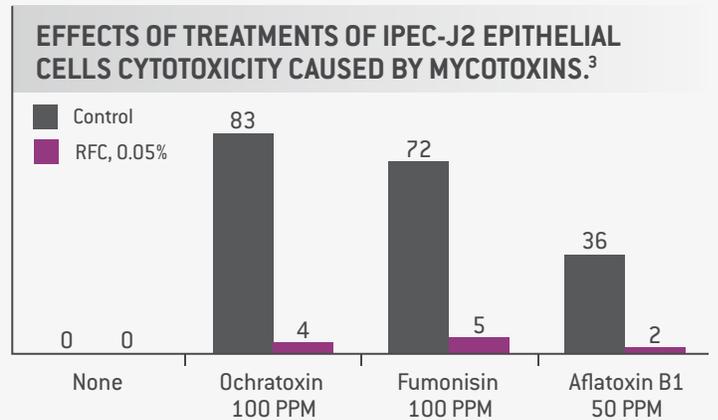
## The proof is in the research.

*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>

BG-MAX efficiently bound some of the most common mycotoxins.<sup>4</sup>

## Drive reproductive performance.

In a commercial trial, sows fed a gestation diet contaminated with prevalent mycotoxins zearalenone and deoxynivalenol and supplemented with BG-MAX showed improved rates of fertility, farrowing and mortality compared to control sows fed the same mycotoxin-contaminated feed.<sup>5</sup>



## RESULTS

	BG-MAX	Control	P Value
Fertility, %	93.40	87.50	0.082
Farrowing rate, %	89.40	79.60	0.018
Mortality, %	0.70	5.30	0.015
Piglet BW at birth, kg	1.30	1.26	NS

## Recommended feeding rates.\*

<b>PIGS— NURSERY AND SOWS</b>	2 kg per metric ton of complete feed	<b>PIGS— GROWERS</b>	1.0 kg per metric ton of complete feed
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\*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-mycotoxin 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 Research Notes S-97. BG-MAX supplementation maintains reproductive performance of sows fed gestation diet containing zearalenone and deoxynivalenol. Adapted from a study done at a commercial pig research center in Spain. 2019.