

Mycofix[®] 5.E

Absolute protection



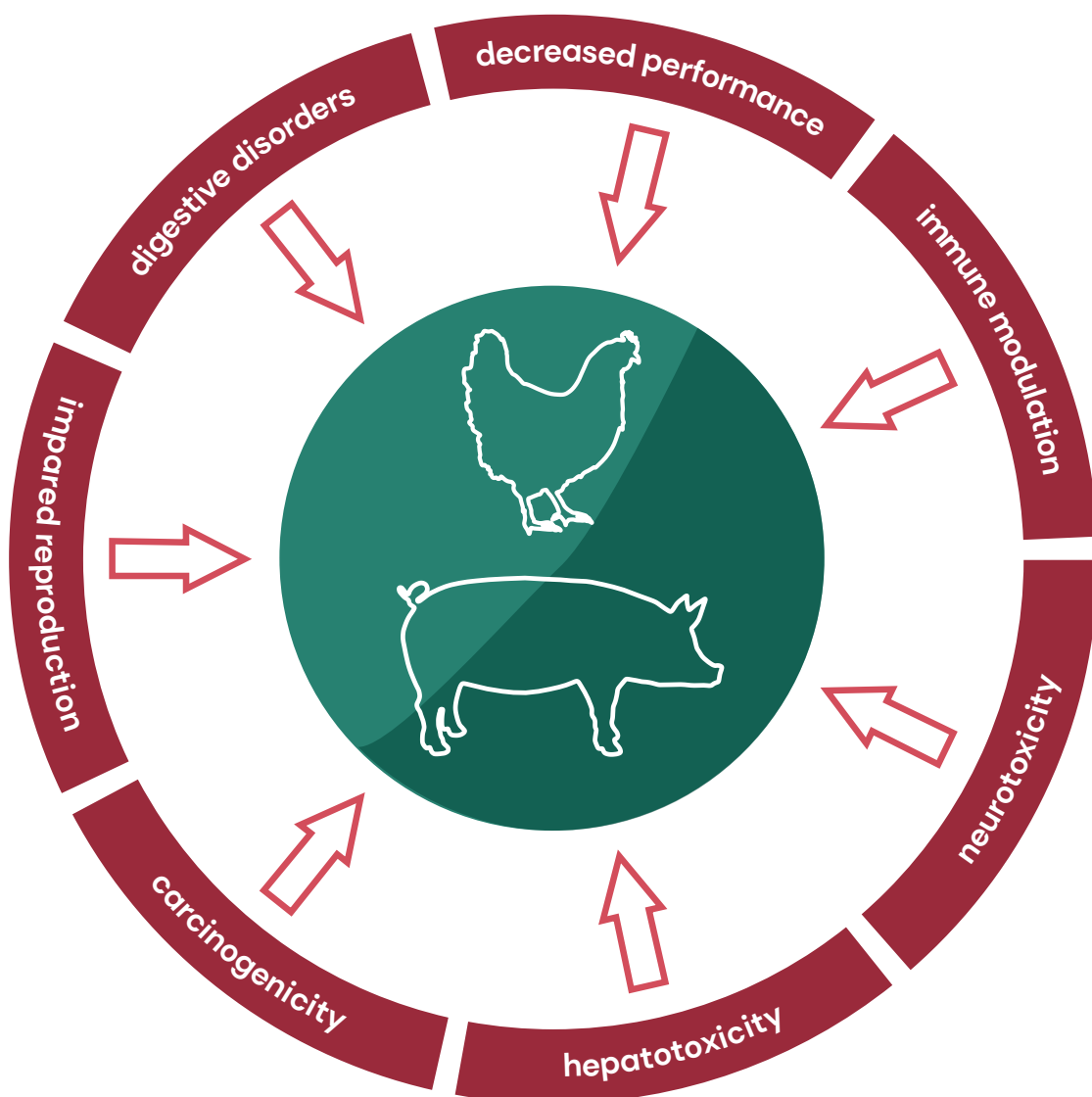
dsm-firmenich 

Mycotoxins

Harmful and widespread

Over 80% of all analyzed agricultural commodity samples contain one or more mycotoxins according to the latest dsm-firmenich Mycotoxin Survey (formerly the BIOMIN Mycotoxin Survey).

Mycotoxins impair the health status and performance of animals. Negative effects include digestive disorders, impaired reproduction, weakened immune function, carcinogenicity, hepatotoxicity and neurotoxicity—in addition to higher production costs and lower profits for producers.

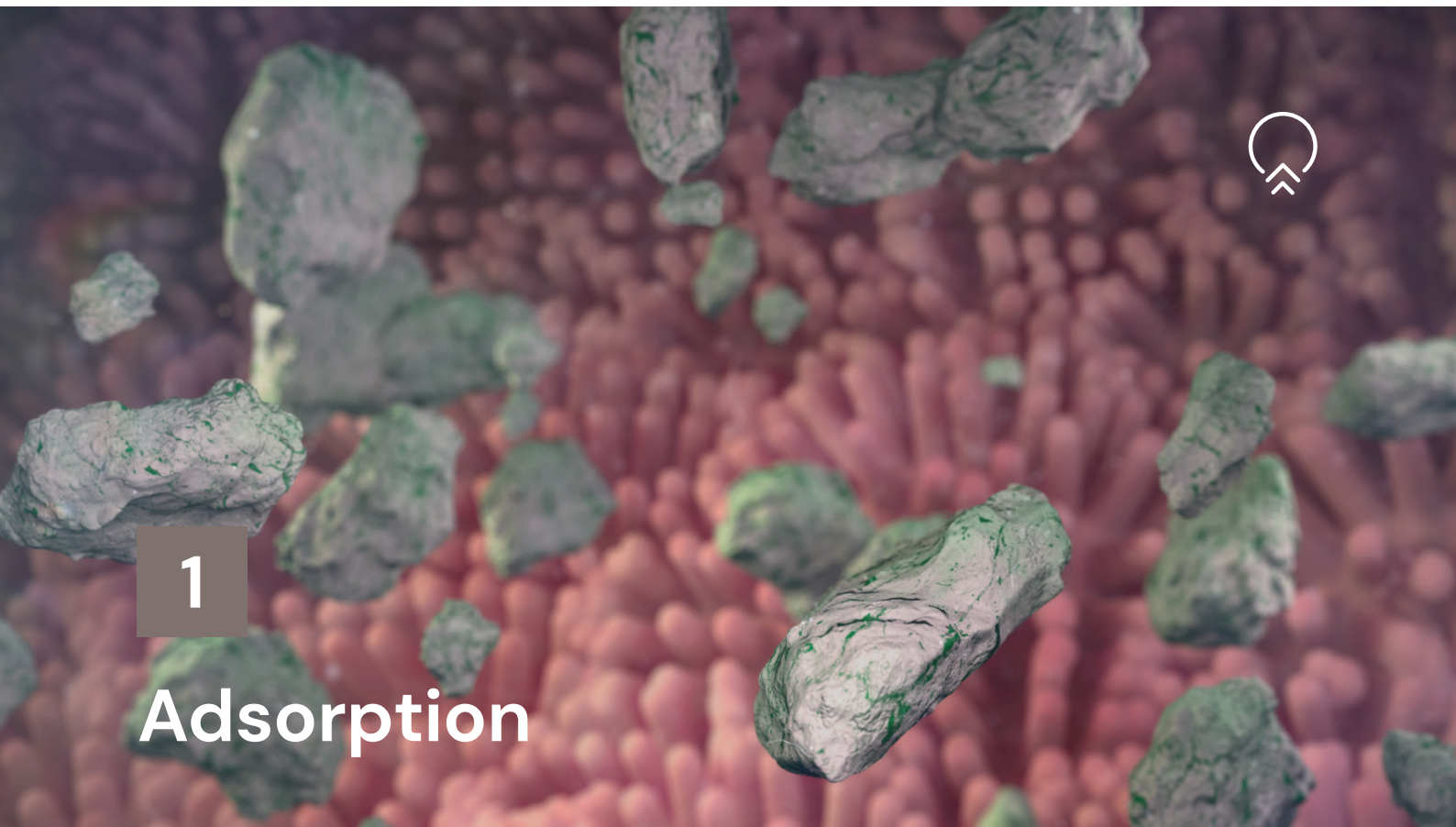


3 modes of action



For the most complete mycotoxin risk management

Mycofix® unites three strategies to combat mycotoxins using patented proprietary technology, making it the most scientifically advanced mycotoxin protection available.



1

Adsorption

A blend of minerals selectively bind aflatoxins.



Mycofix® contains EU authorized bentonite which binds more than 90% of aflatoxins, meeting the strict requirements set by the European Union Reference Laboratory.

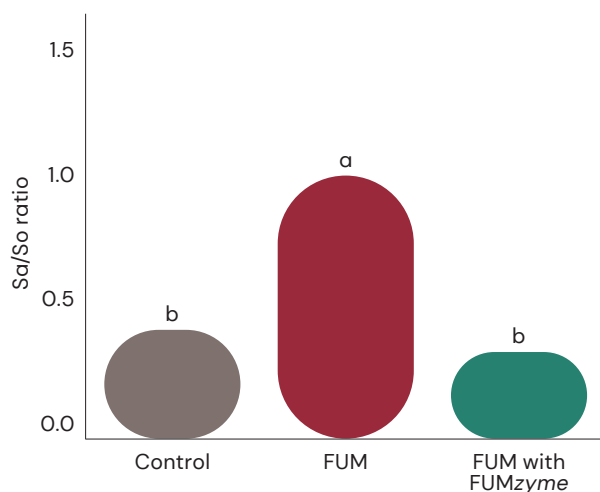
2

Biotransformation

A unique combination of patented specific enzymes and biological components converts mycotoxins into nontoxic, environmentally-safe metabolites in the digestive tract of animals.

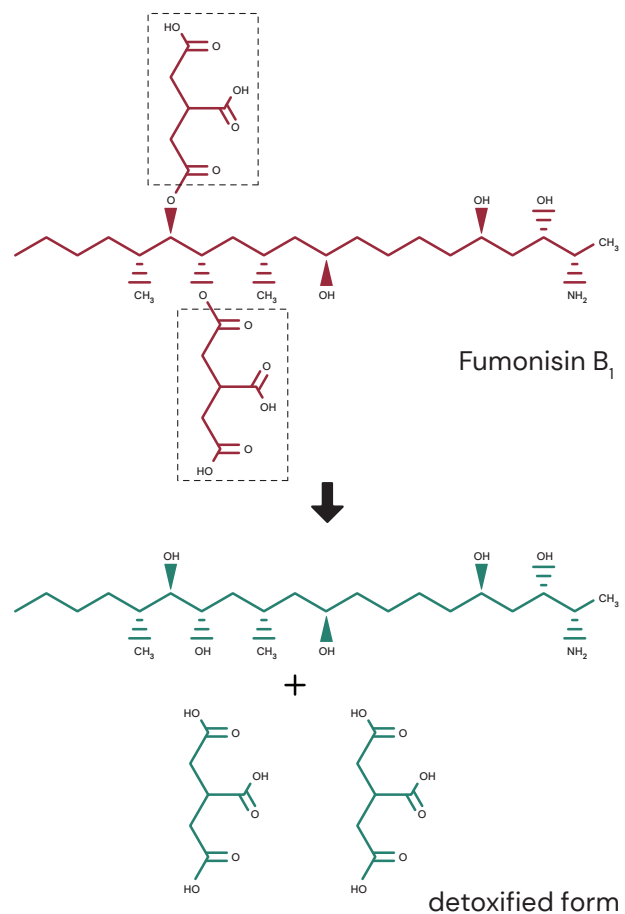
FUMzyme®

The first-ever purified enzyme to degrade fumonisins specifically and irreversibly into nontoxic metabolites.



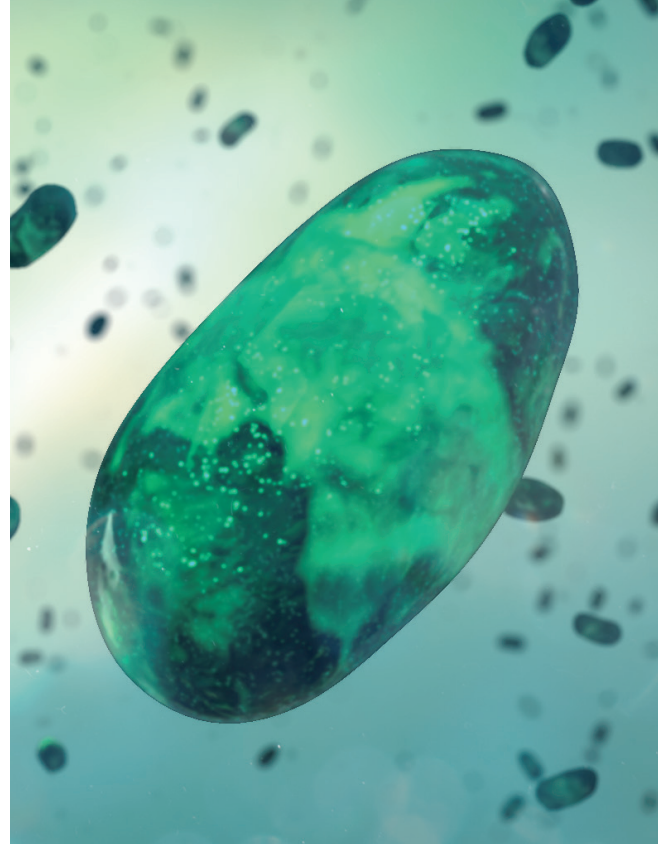
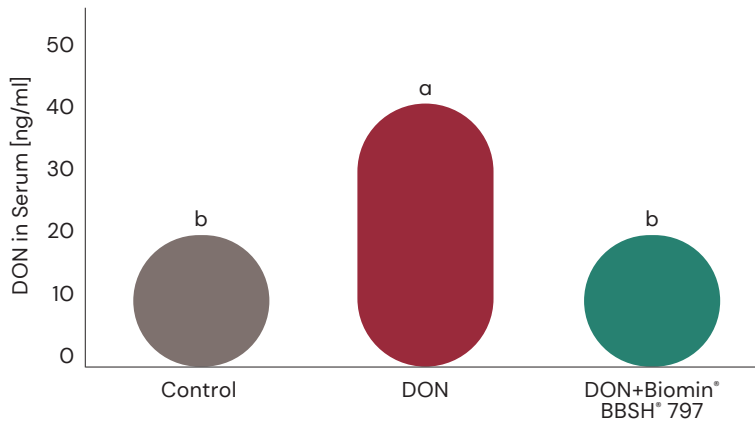
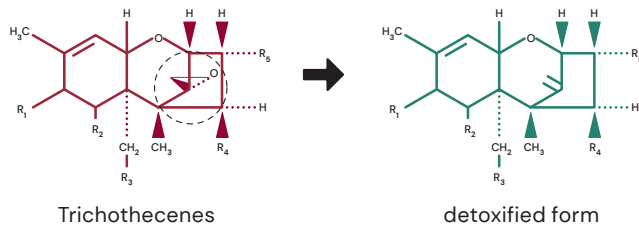
FUMzyme® detoxifies fumonisins (FUM), proven by decrease of sphinganine/sphingosine ratio (Sa/So) biomarker.

a,b: different letters indicate significance ($p < 0.05$)



Biomin® BBSH® 797

The microorganism that biotransforms trichothecenes into harmless metabolites.



EU authorized Biomin® BBSH® 797 significantly reduces deoxynivalenol (DON) concentration in serum.

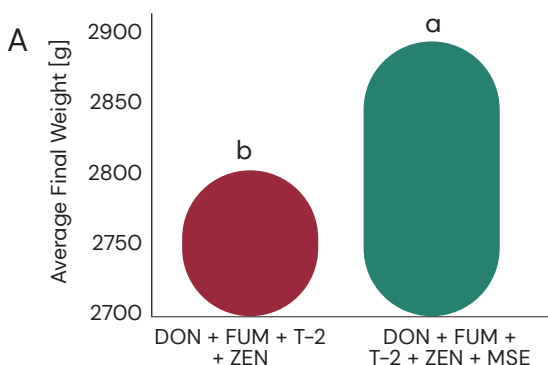
a,b: different letters indicate significance ($p < 0.05$)

Proven effectiveness

A) Broiler Trial.

A trial under field conditions was performed with two groups of birds in the same house (historically facing a high *E. coli* pressure). All broilers received feed contaminated with low levels of different mycotoxins (FUM, DON, T-2, ZEN).

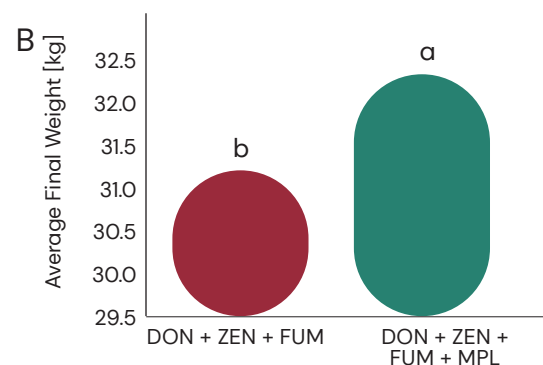
One group received the same feed plus 1.5 kg Mycofix® Select/ton (starter, grower 1) and 1.0 kg Mycofix® Select/ton (grower 2, finisher). At the end of the trial final weight of broiler supplied with Mycofix® Select was 88 g higher, feed conversion ratio was 3 points lower and mortality reduced by 15%.



Final average weight per bird at slaughter (day 42).
a,b: different letters indicate significance ($p < 0.05$)

B) Piglet Trial.

A trial under field conditions was performed with 60 weaned piglets receiving a diet naturally contaminated with deoxynivalenol, zearalenone and fumonisins over 56 days. At the end of the trial, piglets supplied with 1.0 kg of Mycofix® Plus/ton had a final weight of 32.3 kg versus 30.6 kg for the control group.

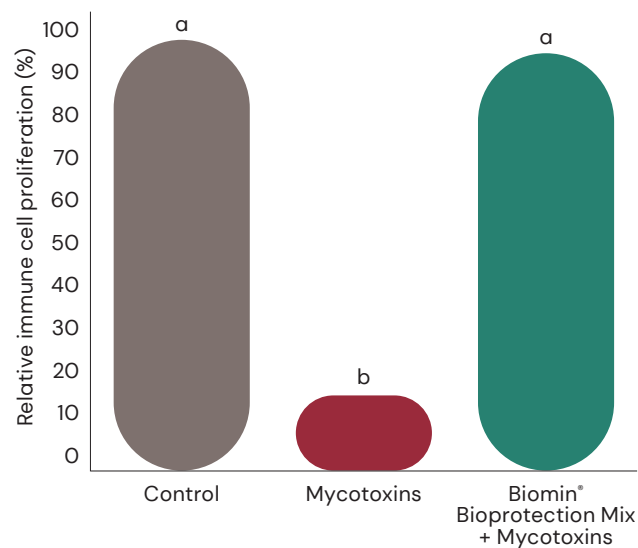


Final average weight per piglet at the end of the trial (day 56).
a,b: different letters indicate significance ($p < 0.05$)

3

Bioprotection

An innovative mix of natural ingredients provides immune support and counters the harmful effects of mycotoxins.



BIOMIN® Bioprotection Mix prevents immunosuppressive effects of mycotoxins by optimizing activation of immune cells.

a,b: different letters indicate significance ($p < 0.05$)

Benefits of Mycofix® 5.E

Turning science into sustainable solutions

Mycofix® 5.E, an innovative, all-in-one feed additive that uses three modes of action – adsorption, biotransformation and bioprotection – to deliver absolute protection against mycotoxins.



1

Combats a broader spectrum of mycotoxins

In addition to components in Mycofix® 5.E that deactivate trichothecenes and aflatoxins, FUMzyme® is a patented purified enzyme to degrade fumonisins.

2

Proven safety and effectiveness backed by seven EU authorizations

Mycofix® 5.E contains the only EU authorized feed additives proven to adsorb or to biotransform mycotoxins into nontoxic metabolites.

(Regulation No 1060/2013, 1016/2013, 1115/2014, 2017/930, 2017/913, 2018/1568, 2021/363)

3

Enhanced bioprotection

The patented BIOMIN® Bioprotection Mix in Mycofix® 5.E supports proper liver and immune system function. It also prevents gut leakage, supporting the intestinal barrier function of the animal.

4

Protection against endotoxins

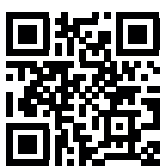
Mycofix® 5.E protects against weakened immune system and lower performance wrought by endotoxins, even in the presence of adsorbable mycotoxins such as aflatoxins.

5

Brand new, optimized formulation

Mycofix® 5.E is a fully revamped formulation of the Mycofix® product line. It has been optimized in order to boost effectiveness proven in trials around the world.

We bring progress to life



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