

Mycofix[®] 5.0

Absolute protection



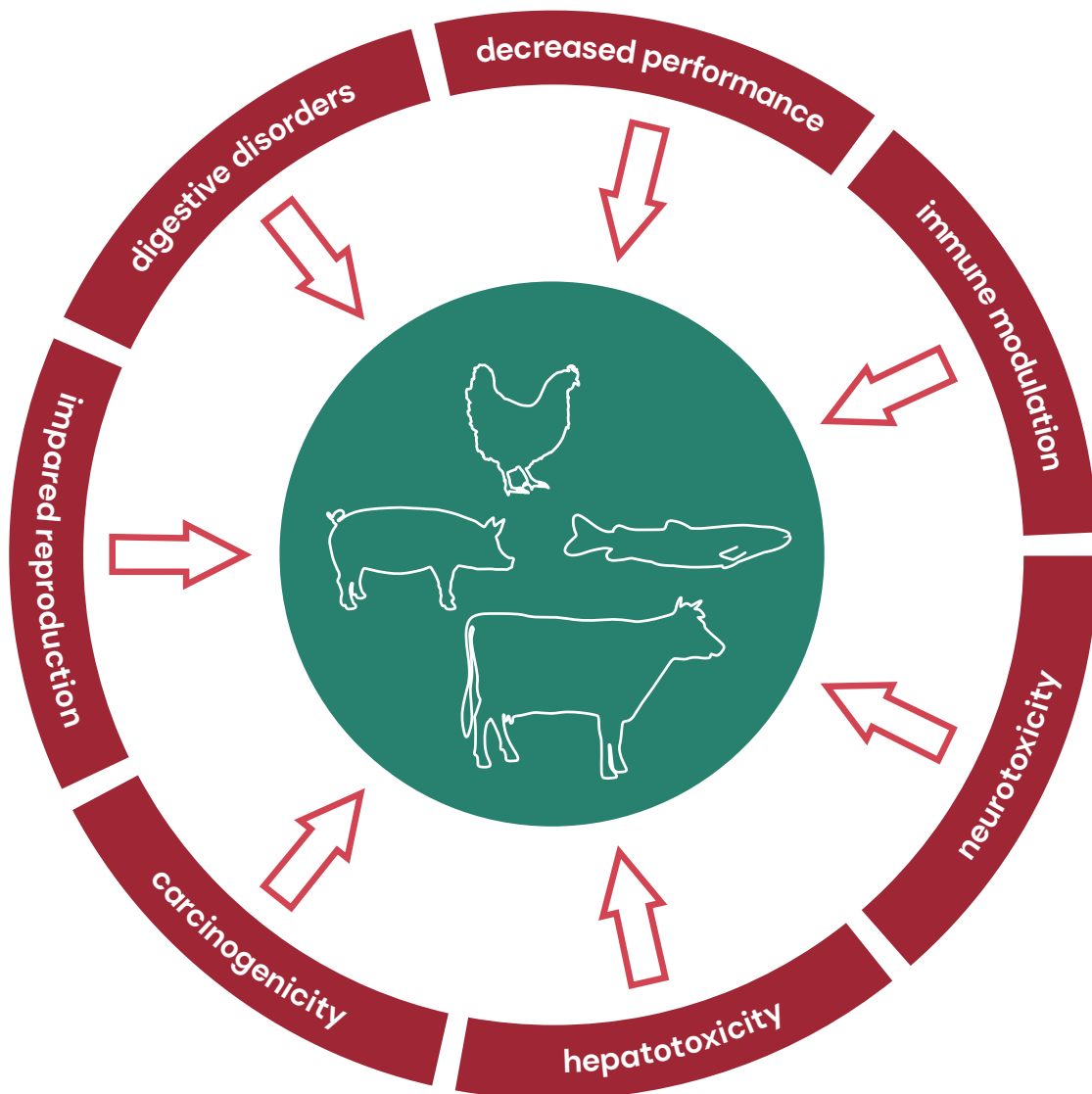
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Mycotoxins

Harmful and widespread

Over 80% of all analyzed agricultural commodity samples contain one or more mycotoxins according to the latest DSM 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.

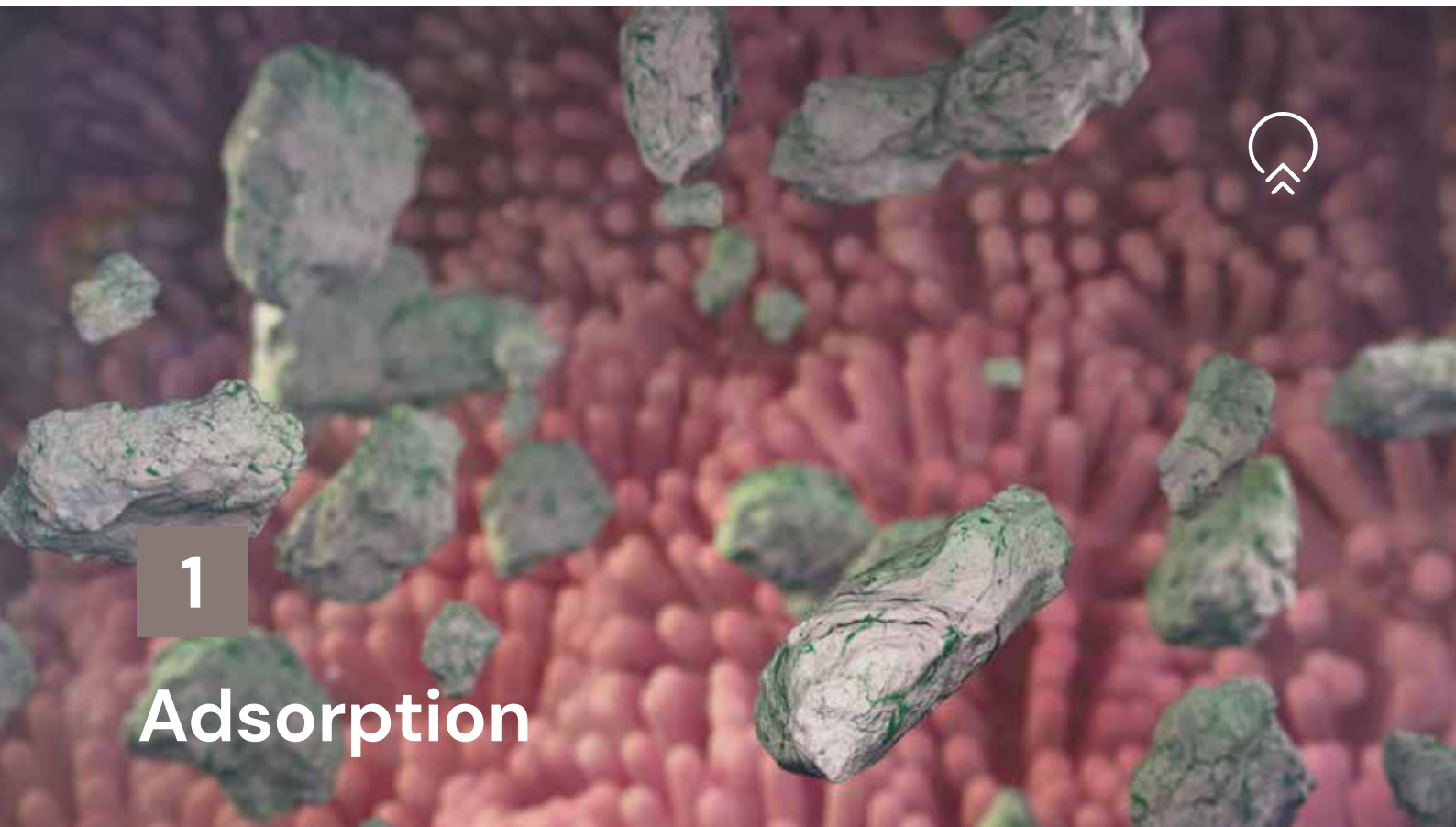


3 modes of action



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

Mineral adsorbents selectively bind adsorbable mycotoxins such as aflatoxins and ergot alkaloids as well as endotoxins.



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

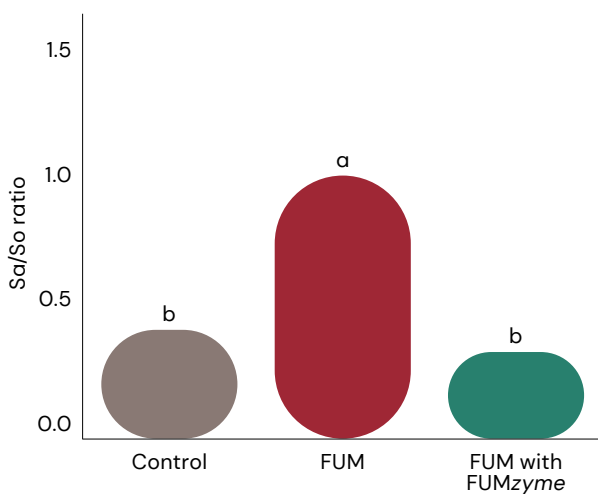
2

Biotransformation

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

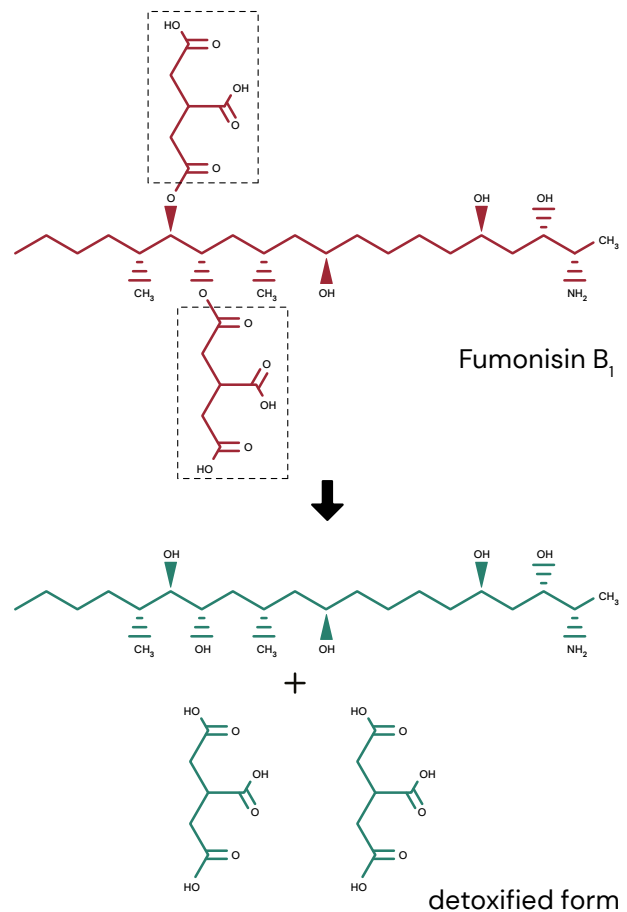
FUMzyme®

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



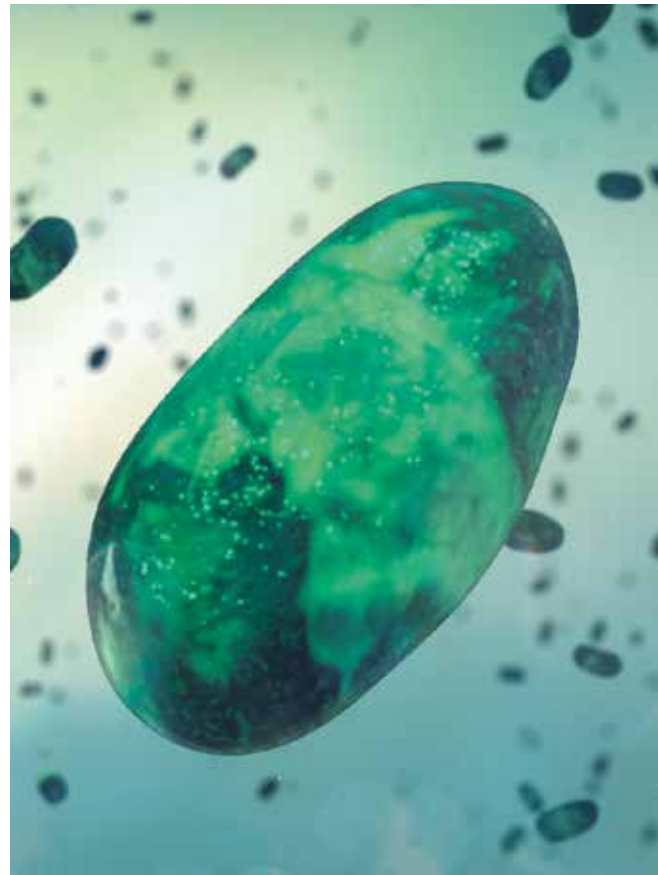
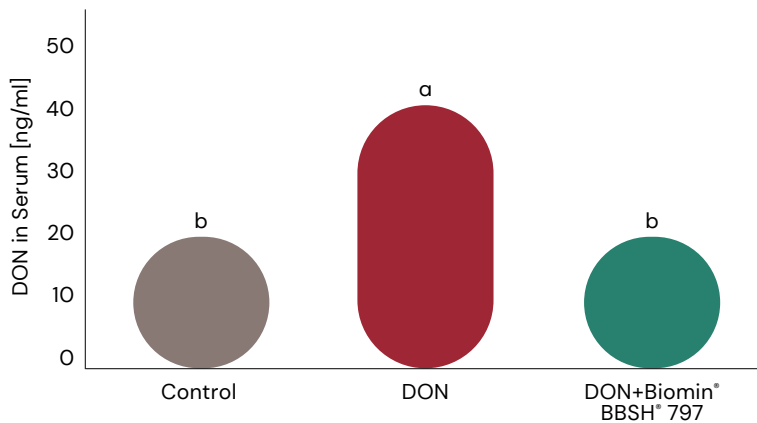
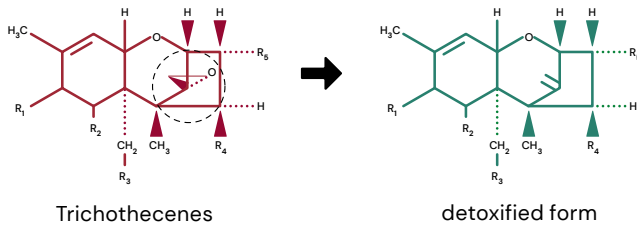
FUMzyme® detoxifies fumonisins (FUM), proven by decrease of sphinganine/sphingosine ratio (Sa/So) biomarker.

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



Biomin® BBSH® 797

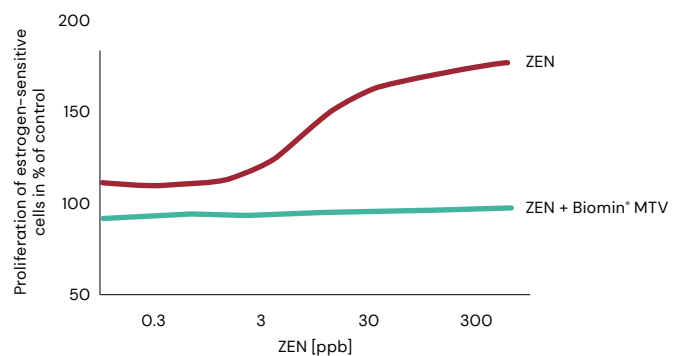
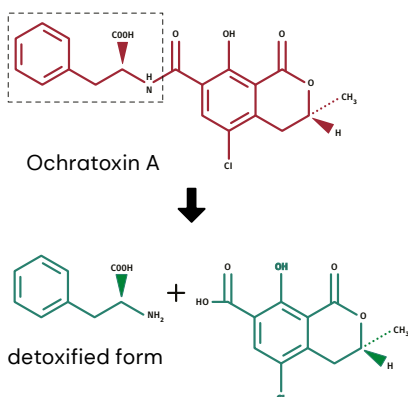
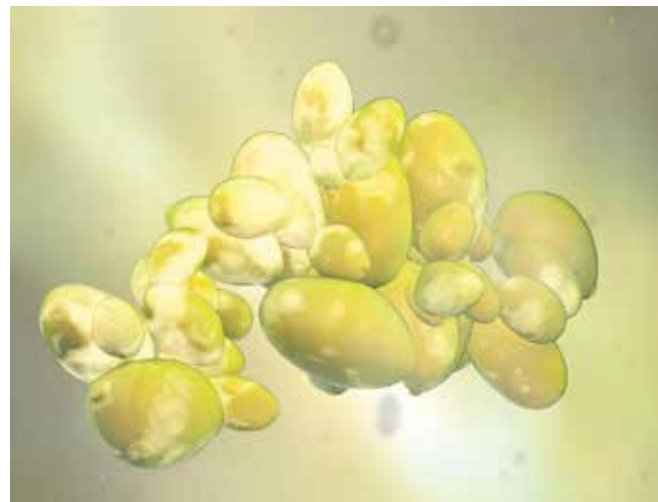
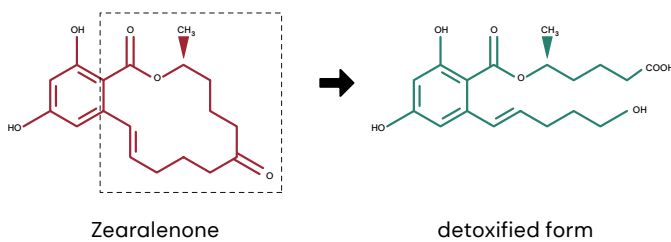
The microorganism that biotransforms trichothecenes into harmless metabolites.



EU authorized Biomin® BBSH® 797 significantly reduces deoxynivalenol (DON) concentration in serum. a,b: different letters indicate significance ($p < 0.05$)

Biomin® MTV

The yeast strain specifically detoxifies zearalenone and ochratoxin A into nontoxic substances.



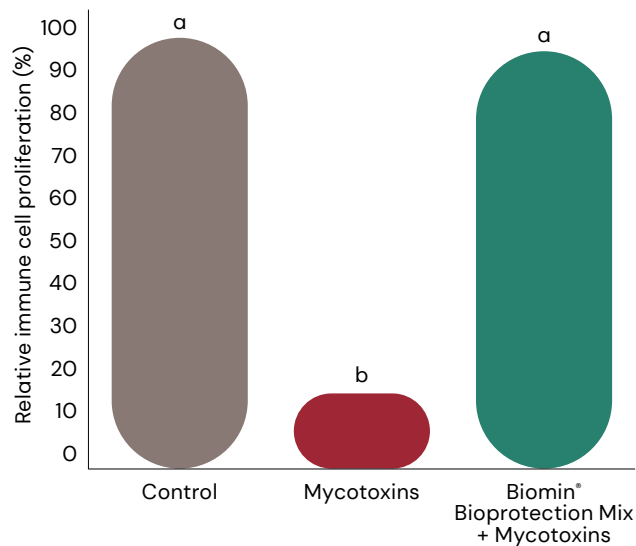
Proven zearalenone (ZEN) degradation into non-estrogenic metabolites by BIOMIN® MTV tested in E-screen assay.



3

Bioprotection

The patented BIOMIN® Bioprotection Mix is an innovative mix of natural ingredients that protects against a weakened immune system and lower performance caused by endotoxins and (emerging) mycotoxins. It provides immune and liver support, strengthens the intestinal barrier and tight junctions.



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® 5.0

Turning science into sustainable solutions

Mycofix® 5.0, 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® 5.0 that deactivate trichothecenes, zearalenone, ochratoxin A and aflatoxins, FUMzyme® is a patented purified enzyme to degrade fumonisins.

2

Proven safety and effectiveness backed by seven EU authorizations

Mycofix® 5.0 contains the only EU authorized feed additives proven to adsorb or to biotransform mycotoxins into nontoxic metabolites.

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

3

Enhanced bioprotection

The patented BIOMIN® Bioprotection Mix in Mycofix® 5.0 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® 5.0 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® 5.0 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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