

# MYCOGUARD FOCUS



**M**ycoguard Focus is specifically designed to de-activate aflatoxins, one of the most commonly occurring class of mycotoxins. MycoGuard Focus is suitable for use in poultry, swine, ruminant and aqua feed.

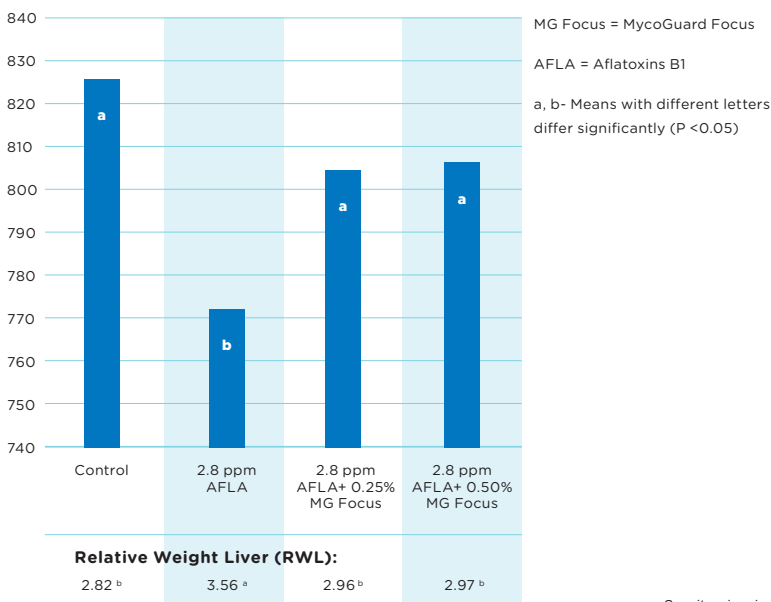
## IN VIVO TRIALS SHOW THE EFFICACY

MycoGuard Focus is able to revert the negative effects of aflatoxin B1 on body weight and liver health damage – as can be seen in graph 1 and figure 1.

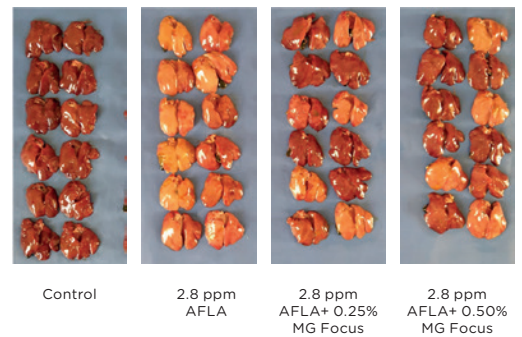
## THE MIXTURE OF BENTONITE CLAYS ENSURES A FAST AND STRONG ADSORPTION:

- FAST adsorption minimizes the exposure of your animals towards the aflatoxins.
- STRONG adsorption ensures the aflatoxins cannot do any harm before leaving the digestive tract.
- Maximizing the health and performance of your animals.

**Graph 1: The effect of MycoGuard Focus on broilers body weight fed with a diet containing aflatoxins for 21 days**



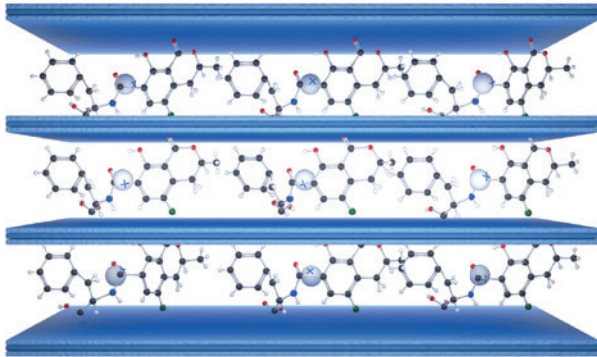
**Figure 1: Broiler livers (21 days)**



## HOW DOES MYCOGUARD FOCUS WORK?

Bentonite clays are able to adsorb the polar, smaller size aflatoxins in between the clay layers as shown in figure 2 below.

Figure 2: Inorganic adsorption of aflatoxin by bentonite clay



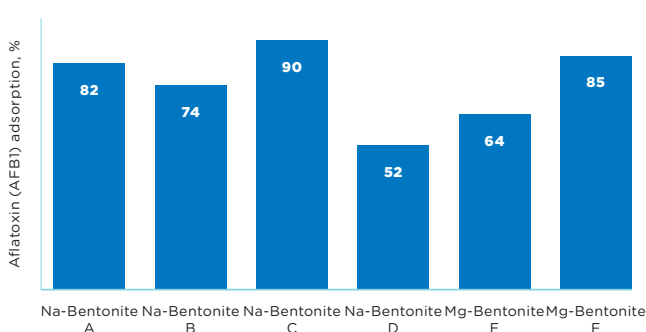
## OPTIMIZING THE BENTONITE MIXTURE FOR MOST EFFECTIVE ADSORPTION PROFILE

There are various bentonites with different chemical properties which determine their capacity and speed to adsorb aflatoxins.

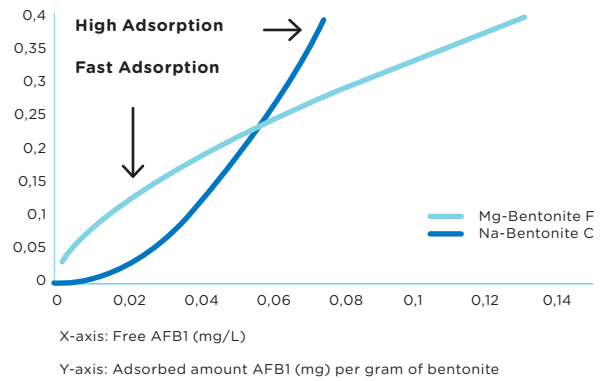
Different sodium- and magnesium-bentonites have been assessed in-vitro for their ability to bind aflatoxin B1.

Sodium bentonite clay C shows the greatest adsorption as seen in graph 2, followed by the magnesium bentonite F. Strong adsorption means the aflatoxin remains captured and therefore de-activated in-between the clay layers.

Graph 2: Aflatoxin (AF B1) adsorption capacity of different bentonites

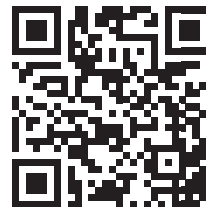


Graph 3: Adsorption isotherms AFB1



Next to capacity, the adsorption affinity was also assessed. As can be seen from the adsorption isotherm in graph 3, Mg-bentonite F shows the highest affinity resulting in fast and strong adsorption, Na-bentonite C having the highest capacity.

MycoGuard Focus is a mixture of both strong as well as fast adsorbing bentonite clays to ensure the mycotoxins are captured quickly and stay immobilized during digestion of the feed.



SCAN FOR MORE INFO



Feeding *Performance*