

CopiTox MB

Mycotoxin binder



What is a mycotoxin?

A mycotoxin is a **fungal metabolite** that reduces the metabolic activity in animals. Therefore, they are the **cause of many poisonings**, **strogenic**, **gastrointestinal**, **urogenital**, **vascular**, **renal and nervous disorders**, which can cause the death of animals.

They are also **inmunosuppressive**, reducing the resistance of animals against infectious diseases.

The **accumulation** of mycotoxins in **raw materials and feed** is a significant threat for **animal health**.

According to FAO, **global losses** of food products due to mycotoxins are of the order of **1000 millions tons per year**, so the negative economic effects are very important.



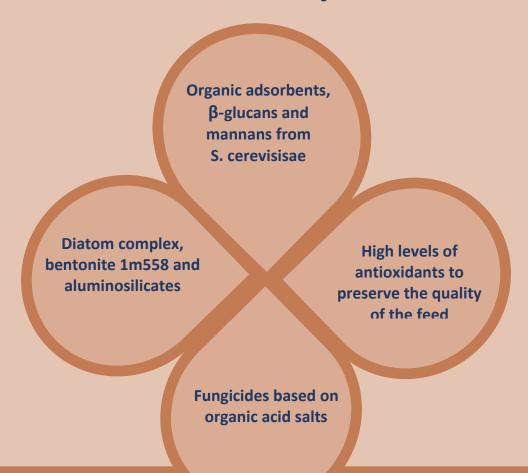
Why is important to use CopiTox?

It is estimated that 25% of the world's food crops are affected by mycotoxin-producing fungi.

Despite years of research and the introduction of good practises in the feed production, storage and distribution chain, mycotoxins remain a problem.

It is neccesary to protect the health of the animals by limiting their exposure to the negative effects of mycotoxins.

What is CopiTox MB made of?



CopiTox is a wellselected versatile mix of non-digestible adsorbents.

Mycotoxins adhere to Copitox MB in the gastrointestinal tract, preventing their absorption into the body. Wide-range spectrum of action.

Fungi and mycotoxins of global importance

Fungus specie	DERIVED MYCOTOXIN	
Aspergillus parasiticus	Aflatoxins B_1 , B_2 , G_1 y G_2	
Aspergillus flavus	Aflatoxins B ₁ y B ₂	
Fusarium sporotrichioides	Toxin T-2	
Fusarium graminearum	Deoxynivalenol (DON), Zearalenone	
Fusarium moniliforme (F. verticillioides)	Fumonisin B ₁	
Penicillium verrucosum	Ochratoxin A	
Aspergillus ochraceus	Ochratoxin A	



Benefits of using CopiTox MB

- ✓ Prevention of contamination during feed production.
- ✓ Decontamination during feed processing.
- ✓ Deactivation of mycotoxins during feed digestion, avoiding or minimizing the main negative effects of these metabolites in the animal husbandry:
 - Changes in feed consumption.
 - Conversion rate.
 - o Fertility disorders.
 - Decrease in basic resistance.
 - Inmune-related disorders.
 - Secondary infections.

Stable over a wide range of pH

Short chain organic acids known for their fungicidal action

Proven efficacy

CopiTox acts as a fungicide thanks to the incorporation of organic acid salts. Also, it is an efficient mycotoxin absorbent due to its studied composition.

Active against Aflatoxin, DON-Vomitoxin, Ochratoxin, Toxin T-2, Fumonisin and Zearalenone.

FUNGUS SPECIE	MYCOTOXINS	СОРІТОХ МВ	CONTROL
Aspergillus	Aflatoxins	Aluminosilicates Bentonite Clays	Adsorption
		ВНТ	Competitive inhibition
Fusarium	Toxin T-2 DON-Vomitoxin Zearalenone Fumonisins	β-glucans y mannans in cell walls of S. cerevisiae	Adsorption
Penicillium / Aspergillus	Ochratoxin A		

Proven in vitro efficacy:

- ✓ Inclusion rate 1-2 kg/T preventive and up to 4kg/T under suspicion of high contamination.
- ✓ **Stable in a wide range of pH** (this is necessary to keep the mycotoxin adsorbent fixed throughout the intestine and thus allow its excretion).
- ✓ High affinity to adsorb low concentrations of mycotoxins.
- ✓ High adsorption capacity.
- ✓ Quick action (before mycotoxin is absorbed).
- ✓ Trusted product.

CopiTox MB

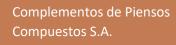
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