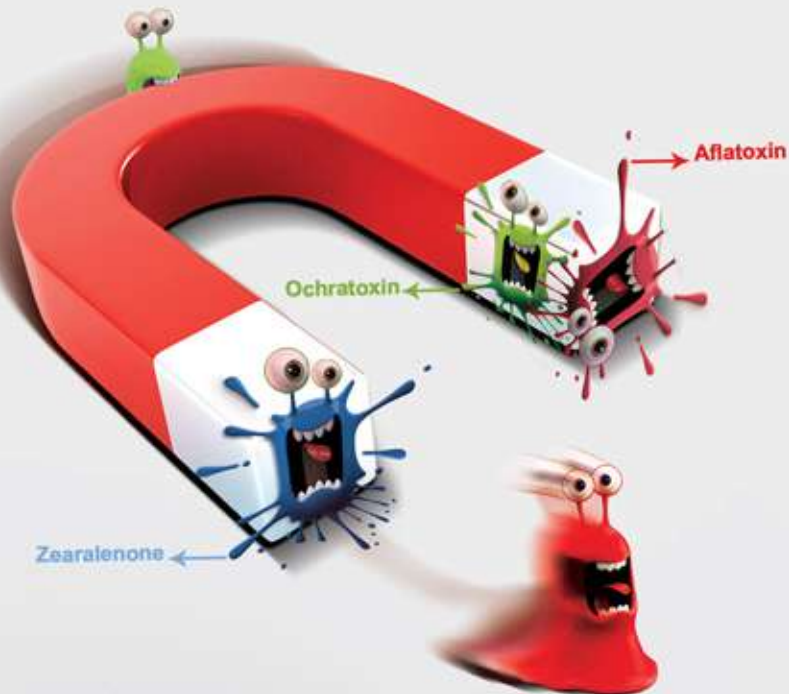




Magnotox

Broad spectrum toxin binder

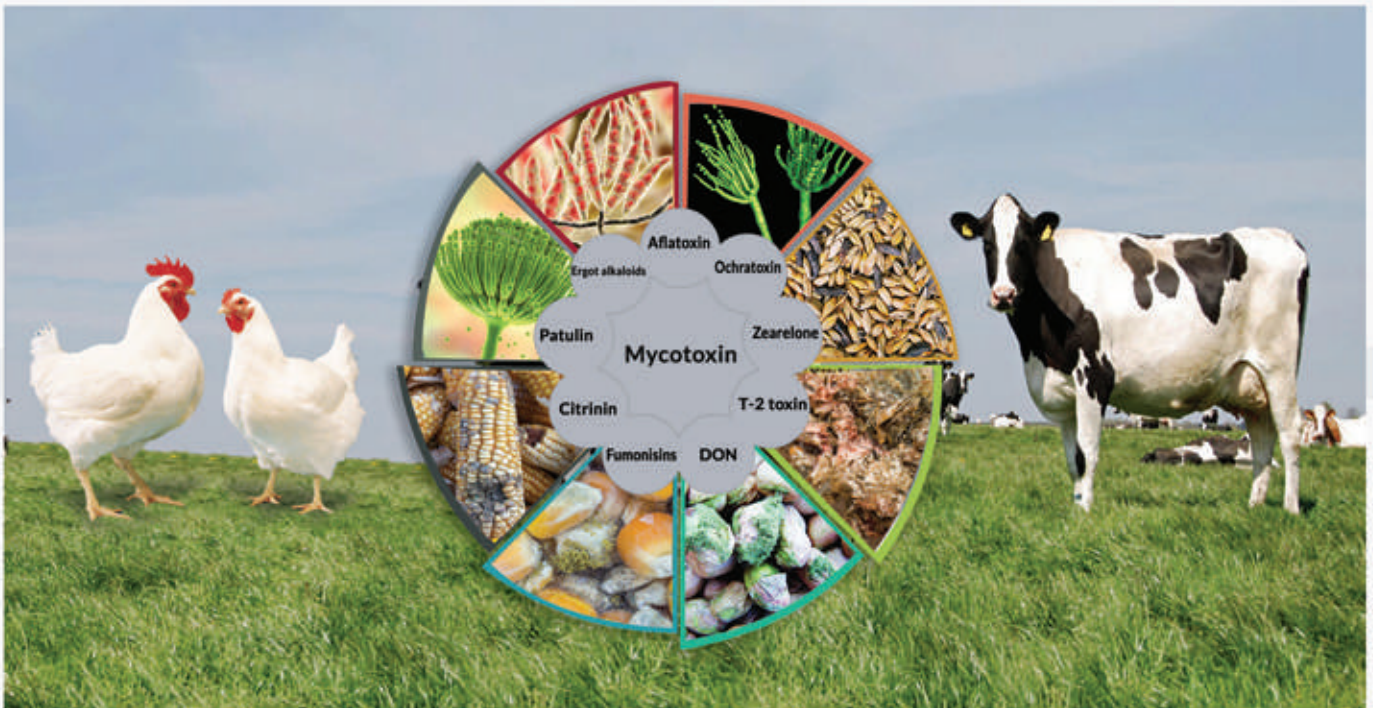


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absorbent of all kinds of Mycotoxins

Magnotox Introduction

Magnotox is a broad spectrum toxin binder consisting of microorganisms with fungal toxin degrading ability, organic and inorganic adsorbents. This product is designed for specific absorption and degradation of mycotoxins present in livestock and poultry feed, especially aflatoxins, ochratoxin, zearalenone, deoxynivalenol, fumonisin, T2, etc.



Magnotox Advantages in Poultry

- Increase fertility and hatchability in broiler breeder flock
- Improvement Immune response and vaccination efficacy in poultry
- Protecting the liver and internal organs against the destructive effects of mycotoxins
- Reduction of mycotoxin residues in meat, egg, etc



Magnotox Advantages in Livestock

- Reduction of fertility problems and mycotic abortions in dairy cattle
- Immune system strengthening and infectious disease risk reduction
- Improve immune responses and reducing the risk of infections
- Reduction of mycotoxin residues in meat, milk, and other products

Recommendations and Dosage

0/5 - 3 kg per ton of poultry or livestock feed depending on the mycotoxins level.

Drug interaction: None

Withdrawal time: None

absorbent of all kinds of Mycotoxins

Ingredients and Mechanism of Action

Yeast cell wall and its derivatives:
Yeast cell wall, beta-glucans and mannan oligosaccharides extracted from yeasts, and others



Complete absorption of non-polar fungal toxins

Aluminum silicates and mineral adsorbents: sepiolite, diatomite, smectite



Complete absorption of polar fungal toxins

Mycotoxin absorbing and degrading microorganisms: Specific bacterial strains and viable cells of *Saccharomyces cerevisiae*

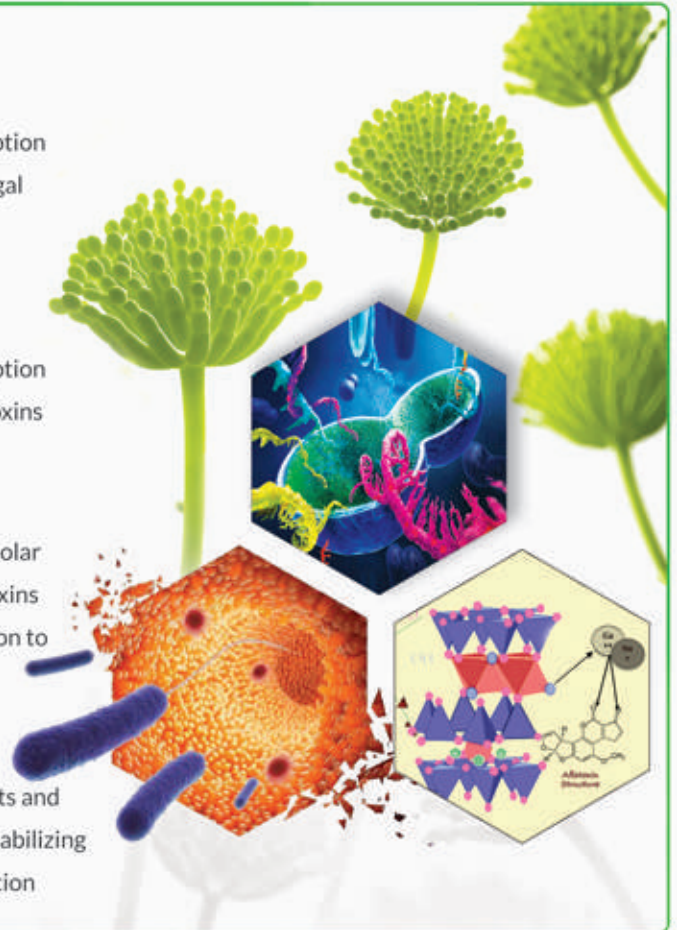


Degradation of polar and non-polar toxins or their adsorption to the cell wall

Improving and co-adsorbent agents: organic acids, activated carbon, and others

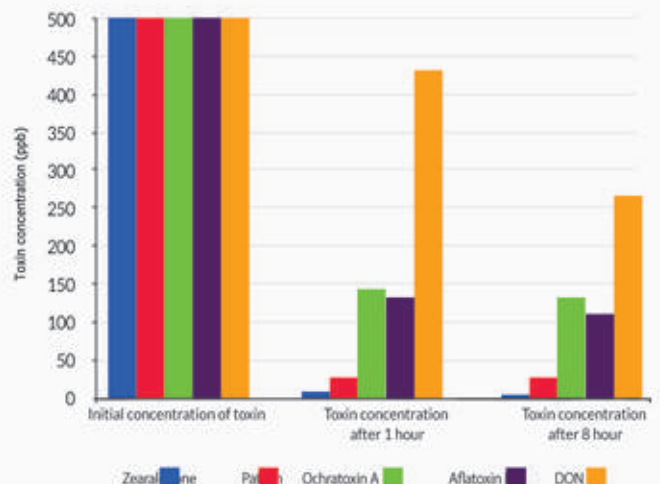


Synergistic effects and enhancing and stabilizing the toxin absorption



Effectiveness of bacterial strains available in Magnotox on the mycotoxins degradation under anaerobic conditions

According to invitro research done (by vivan co,2019) 500 ppb of mycotoxin of zearalenone, ochratoxin, aflatoxin, deoxynivalenol, and patulin were added to the incubator containing of toxin-degrading bacteria. Then, the toxin concentrations were assessed after 1st and 8th hour of using the HPLC. As shown in the diagram, most toxins were degraded by the bacteria in the first hour, and their levels decreased.



Broad spectrum toxin binder

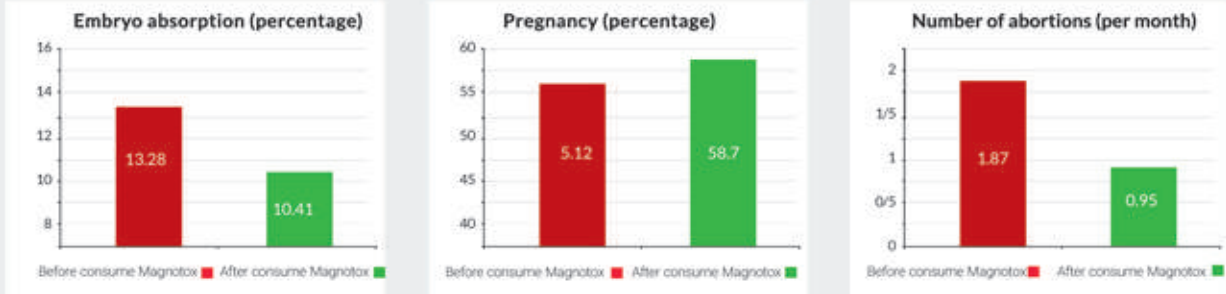
absorbent of all kinds of Mycotoxins

Why Magnotox?

According to the in vivo researches

Effect of Magnotox on the Reproductive traits of dairy cattle

According to the dairy farms test results, 2019



According to this results achieved, Magnotox could improve the conception rate and lead to a significant decrease in embryo absorption and mycotic abortions

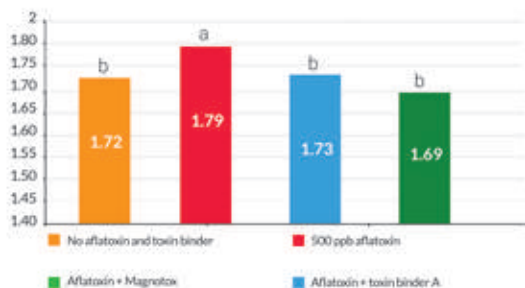
According to a research project by the Vivan co 2018,

Magnotox reduced the destructive effects of aflatoxins on the liver and prevented fatty liver in broiler chickens.

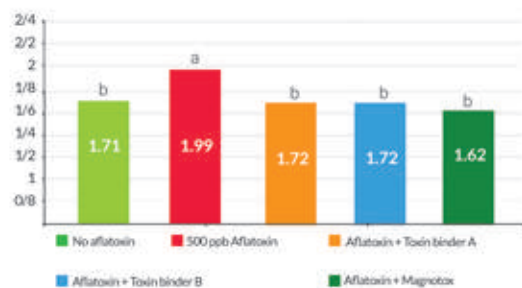


Having an extremely high ability to absorb mycotoxin, Magnotox can protect the liver and internal organs and improve lipid digestion and vitamin metabolisms, especially for fat-soluble vitamins, such as vitamins A, E, and D3.

Effect of toxin binders on broiler feed conversion ratio



The effect of toxin binders on the feed conversion ratio of laying hens



Two other studies on broilers and layers hen shows that aflatoxin leads to a decrease in the egg product in layers and increases the food conversion ratio in broilers. This study showed that Magnotox could improve the FCR of laying hens and broilers.