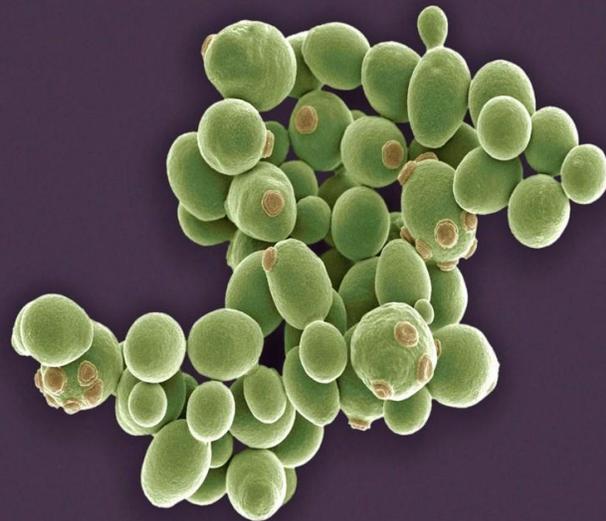


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**CELMANAX:
EXPERTLY DESIGNED TO
BOOST IMMUNITY,
BIND MYCOTOXINS &
IMPROVE GUT HEALTH**

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Maintaining the integrity of a bird's immune system holds paramount importance as various stressors often lead to a decrease in immunity which reduces their resistance to different diseases. One of the factors causing a decrease in immunity is mycotoxin. Poultry birds are highly susceptible to mycotoxins which can impact the innate as well as acquired immunity, nutrient utilization, productivity, and growth of the bird. Therefore, it is vital to consider mycotoxins as one of the potential causes of immunosuppression.

Providing moldy feed or mycotoxin contamination in the feed has detrimental effects on the health of poultry birds. Mycotoxins can affect the animals either individually or additively in the presence of more than one mycotoxin and may affect the bird's system, reduce nutrient utilization, hamper their productive performance and reduce feed consumption.

Celmanax, a product of Arm & Hammer, (USA) provides a unique solution, when added to feed or delivered directly in drinking water to the poultry, manages the bird's immune system and controls mycotoxicosis issues to help producers alleviate these concerns.

Celmanax is a combination of **Yeast Culture** (Yeast cell secrete extracellular enzymes to break down nutrients in the media to produce Extracellular Metabolites), **Yeast Extract** (Cell Wall Extracts include β Glucans, Galactosamine, Mannose, and MOS), and **Hydrolyzed Yeast** (Intracellular Metabolites include amino acids and peptides) into a single, convenient formulation that delivers multiple mycotoxin binder and immunomodulation effects for broilers, breeders & commercial layers at all stages of bird growth.

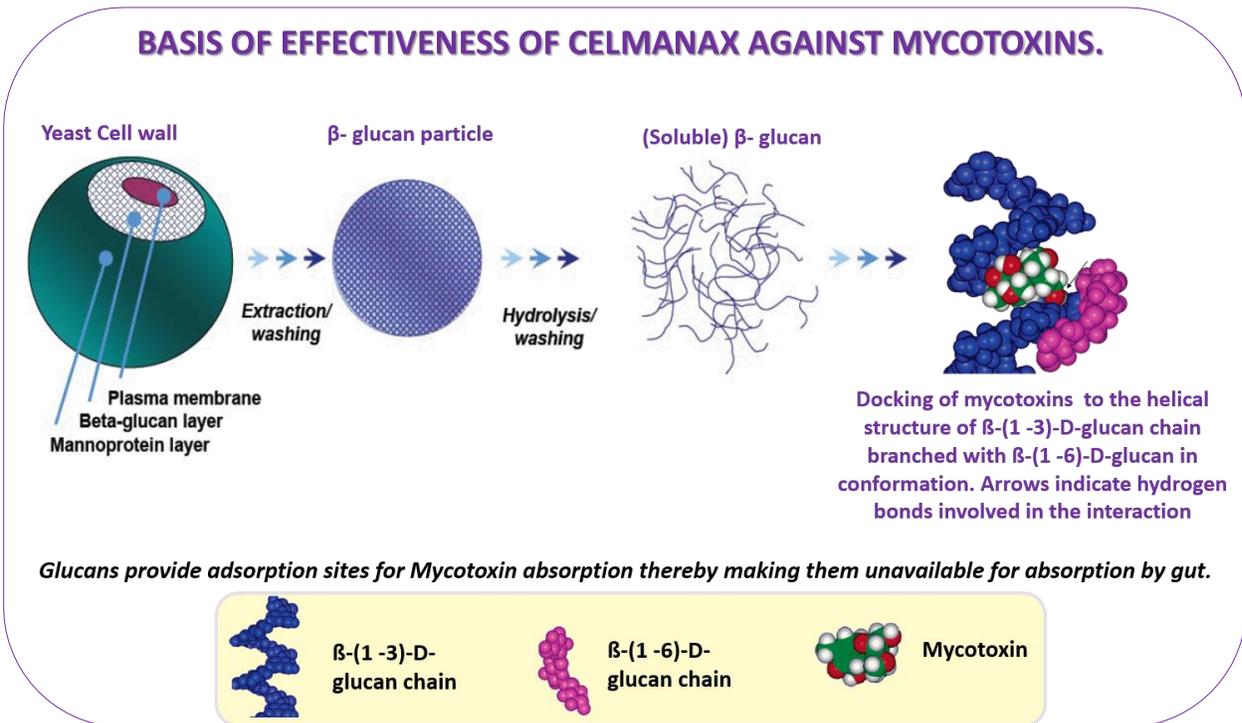
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Across several different toxins and at the different pH's of 3 and 6.5, Celmanax has proved to be effective in different regions of the intestinal tract. Much of this effect is due to the hydrogen bonds between the glucan and the toxin.

β -glucans are known as "**biological response modifiers**" as they have the ability to activate the immune system and improve disease resistance by increasing phagocytic activity cells or macrophages while also increasing the concentrations of plasma IgG and bile IgA.

Dectin-1 is one of the receptors that will bind with beta-glucan. From that, it can stimulate inflammation to get the body started in fighting the infection. It also prepares macrophages by engulfing pathogens in order to destroy them. MOS helps in guiding the macrophages to the site of infection. Lastly, beta-glucan binding to Dectin-1 produces cytokines which help the T and B cells produce antibodies for more targeted fighting off the infection.

For more details, click <https://saifvetmed.com/products.php?procat=Poultry&pid=8&psc=6>

References:

1. *Biomacromolecules*, Vol. 7, No. 4, **2006**
2. Ali, S.H., *The world of β -glucans – a review of biological roles, applications and potential areas of research.*, **2009**

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