



ULTRASORB P 3.0

MYCOTOXIN REMEDIATOR AND ENDOTOXIN BINDER



POULTRY

REDUCE THE IMPACT OF MYCOTOXINS

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Poultry are highly susceptible and frequently exposed to all mycotoxins, especially Aflatoxins, Ochratoxins and T2. UltraSorb P 3.0 is a species-specific mineral feed developed to restore growth and support feed conversion and fertility in poultry challenged by mycotoxins.

Major Benefits

- Protection against multiple mycotoxins
- Endotoxins (LPS) add to the stress load
UltraSorb P 3.0 provides defence against both endotoxins and mycotoxins
- Maintains and contributes to growth rates
- Protects natural immunity
- Supports good fertility
- Supports overall performance
- Suitable for broiler chickens, turkeys, minor poultry



Mycotoxin Risk in Poultry

Mycotoxins are one of the most dangerous hidden threats to avian health, compromising growth, fertility, disease immunity and overall performance and impacts on business profitability.

Symptoms of Exposure

- Poor growth rates, feed refusal
- Immune suppression
- Increased variability in slaughter weights
- Reduced hatchability
- Poor egg quality
- Kidney damage
- Respiratory difficulties
- Gizzard lesions
- Meat contamination (Ochratoxin A)

Role of UltraSorb P

Our unique species-specific formulation has three modes of action: highly adsorbent minerals to **bind** a wide range endotoxins and mycotoxins and their derivatives to make them harmless; biologically active yeast derivatives to **transform** and **degrade** the molecular structure of mycotoxins to improve binding efficacy and protect against the adverse affects of toxin-forming moulds which may be present in the feed.

Mycotoxin Sources

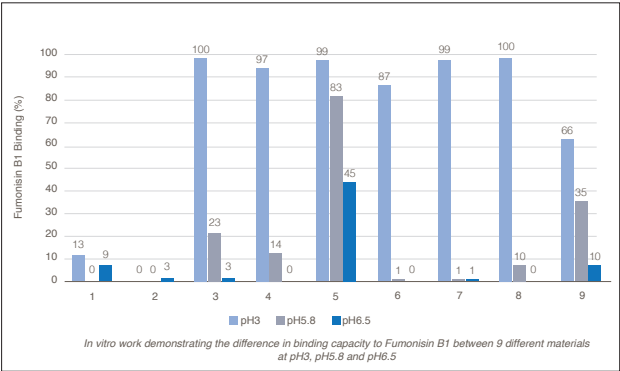
Compound feeds containing a mixture of grains, especially maize can harbour mycotoxins. Straw too. Common toxins affecting poultry include: Aflatoxins, Fumonisin, T2 and Ochratoxins.

REDUCE THE IMPACT OF MYCOTOXINS

Mycotoxin Remediation

UltraSorb P 3.0 delivers reliable protection by binding the most common mycotoxins affecting poultry. Volac's advanced screening process tests binding capability at three pH levels (pH 3, 5.6, and 6). See figure 1. This ensures that the binders selected are most effective at the specific GI tract pH of the chosen species, creating the most efficient product for supporting poultry health and production.

Figure 1. *In vitro* differences in the binding efficacy of materials at pH3, pH5.8 and pH6.5



Trialled and Tested

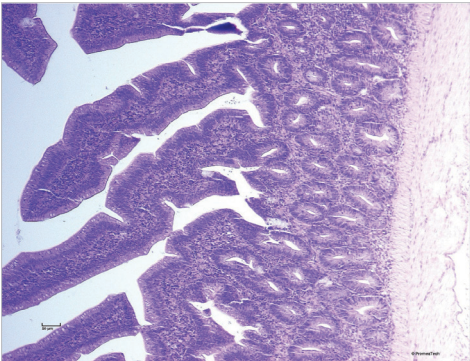
UltraSorb P treated group had a significantly longer villi height, resulting in a higher villi: crypt ratio indicating there was more adsorptive surface area available in the gut for nutrient uptake. See figure 2.

Figure 2. After 40 days of feeding UltraSorb P to broilers with a low mycotoxin challenge, the **UltraSorb P** group had significantly longer villi height in the Ileum

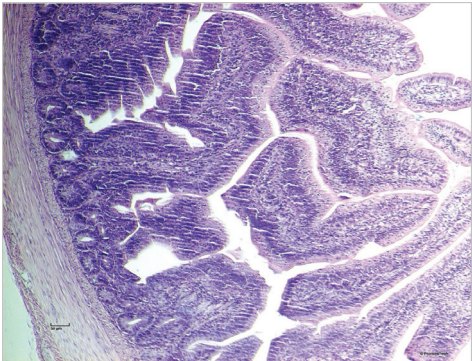
	Average villi height (µm)	Average crypt depth (µm)	Ratio villi/ crypt
Control	4270.19	1943.69	2.20
UltraSorb P	5337.60	1930.75	2.76
Difference (µm)	1067.41	-12.94	
P-value*	0.003	0.91	

*ANOVA analysis

Ileum gut histology: Day 40



Control



UltraSorb P



UltraSorb P 3.0

UltraSorb P 3.0 is formulated specifically for poultry.

Available in 25kg bags

Ingredients:

UltraSorb P 3.0 is a mineral feed for use in poultry nutrition. It includes technological additives such as bentonites, kieselgurs (diatomaceous earth), sepiolites. Composition: Calcium carbonate, yeasts products derived from *Saccharomyces cerevisiae*.



Storage:

Store in original sealed packaging in a cool dry place. Keep bag closed when not in use. Best before 24 months after date of manufacture.

ABOUT VOLAC

Volac is dedicated to developing cutting-edge product-based agricultural solutions and species-specific programs designed to improve animal health and performance.

Mycocheck - The Mycotoxin Analysis Service, available from Volac.
For more information go to volac.com/feed-additives



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UFAS Approval No.: 246