



T5X

A COMPREHENSIVE APPROACH TO MYCOTOXIN RISK MANAGEMENT

IN CHALLENGING SITUATIONS

Mycotoxin contamination is a topic increasingly of interest around the world, driven by more weather extremities. Mycotoxins are toxic metabolites produced by fungi. One toxin can be produced by several fungi and one fungi can produce several mycotoxins. They are produced in crops on the field, but also during storage of feed materials. More than 500 mycotoxins are identified as part of 5 main families: Aflatoxins, Ochratoxins, Fumonisin, Zearalenones and Trichothecenes (e.g. DON, T2).

The main challenges with mycotoxins are:

- 1 - **Limited identification:** only 50 mycotoxins can be analyzed;
- 2 - **Spot contamination:** mycotoxins are present at very low levels and not evenly distributed in crops;
- 3 - **Hidden risk:** mycotoxins can not be identified/ quantified by visual, smell or taste;
- 4 - **High stability:** mycotoxins are very stable and are not affected by heat, physical, chemical and acid treatments, even over time.

The challenge to identify and quantify most mycotoxins is a challenge, because all of them individually, as well as multi-contaminations, can cause zootechnical issues. The impact on animal production differs per species as well as life stage, the main areas being: Growth performance, Reproduction, Final product quality, Metabolism and Immunity.

DESCRIPTION

Much more than a toxin binder, T5X products are the result of 20 years of development. T5X products are working in synergy with the animals in 3 main actions which are partially or completely incorporated in the different T5X products.*

	T5X Binding	T5X SD	T5X Premium
Binding – to catch polar mycotoxins	●	◐	◑
Detoxification – support the animal's own detoxifying enzymes	○	◑	●
Metabolism – support immunity and anti-oxidant capacity	○	◑	●

THE +

Advice to monitor & control mycotoxins

Zotechnical & mycotoxin expertise

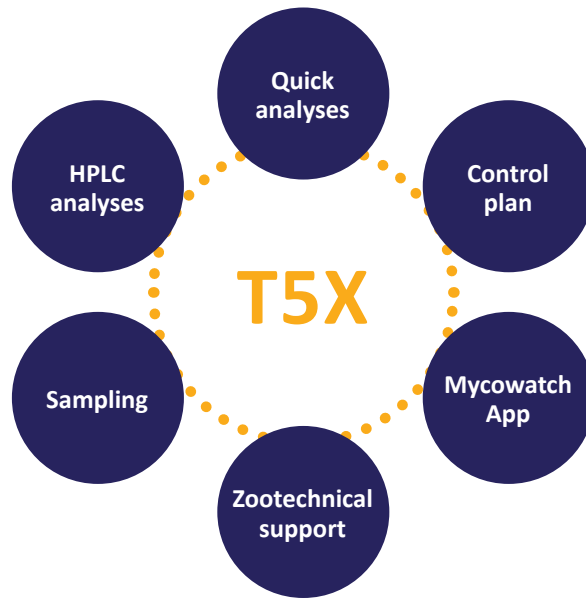
Mobile app providing risk and dosage advice

Clay with highest aflatoxin binding capacity

Unique core supporting the animal's own defenses

ADM SOLUTIONS PARTNER

We offer solutions to manage mycotoxin risks in animal production, from raw material sourcing all the way to the animal. With our T5X products and services, we ensure improved performance. Due to the varying effects of mycotoxin exposure, it's crucial to monitor and regulate mycotoxin levels in feed carefully.



RISK MANAGEMENT OF MYCOTOXINS IN ANIMAL PRODUCTION OFFERED BY ADM

- **Control plan:** A systematic approach to manage mycotoxin risks throughout feed production, including prevention, monitoring, detection, and mitigation strategies.
- **Sampling:** Collecting representative samples from raw materials or finished products to assess mycotoxin contamination levels accurately.
- **Quick analysis:** Rapid screening methods for detecting mycotoxin contamination in feed samples, providing fast results for timely decision-making.
- **HPLC analysis:** High-performance liquid chromatography used for precise quantification of mycotoxins in feed samples, known for its high sensitivity and accuracy.
- **Dosage advice:** Recommendations via the app on the appropriate use of mycotoxin binders in animal feed based on contamination levels and animal characteristics.
- **Zootechnical support:** Expert guidance on optimizing animal performance and well-being in the presence of mycotoxin challenges, including nutritional advice and management practices.

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ADM IS YOUR GLOBAL LEADER IN ANIMAL NUTRITION

We are dedicated to enabling sustainable growth. Growth that benefits our customers, the world's population and this planet on which we live. We are One ADM Team working across a unique vertically integrated portfolio, providing exceptional levels of customer service and experience as we work together to address the three main challenges that our customers face: health through nutrition, performance and sustainability.