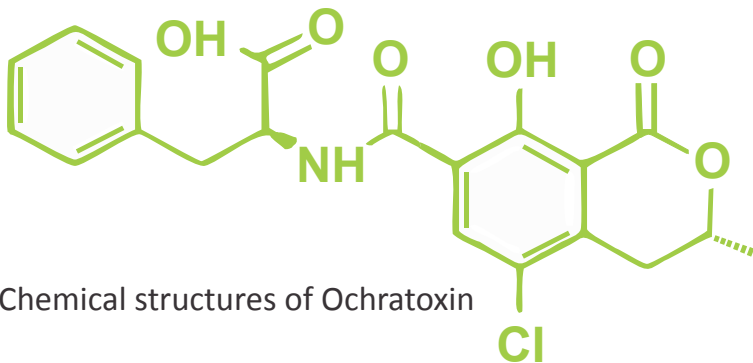


Introduction :

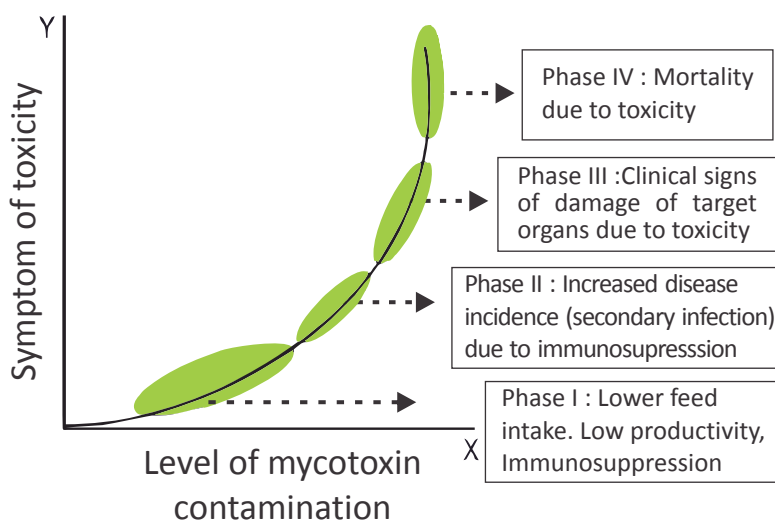
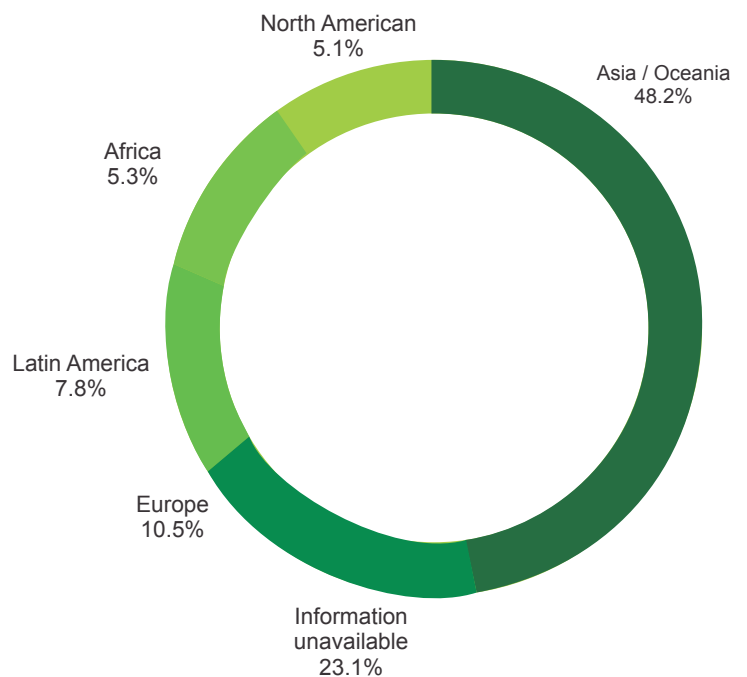
Mycotoxins are secondary metabolites produced by fungi in various cereal grains and are estimated to affect as much as 25% of the world’s crop each year. Most of these mycotoxins belong to the three genera of fungi : Aspergillus, Penicillium and Fusarium. Although over 300 mycotoxins are known, those of most concern based on their toxicity and occurrence, are aflatoxin, vomitoxin, ochratoxin, zearalenone, fumonisin and T2 toxin. They are produced in cereal grains as well as forages before, during and after harvest in various environmental conditions.



Chemical structures of Ochratoxin

The presence of mycotoxins in feeds may decrease feed intake and affect animal performance. In addition, the possible presence of toxic residues in edible animal product such as milk, meat and eggs may have some detrimental effects on human health. Fungal contamination affects both the organoleptic characteristics and the nutritional value of feeds and entails a risk of toxicosis.

The biological effects of mycotoxin depend on the ingested amounts, number of occurring toxins, duration of exposure to mycotoxin and animal sensitivity. Mycotoxins display a diversity of chemical structures, accounting for their different biological effects. Depending on their precise nature, these toxins may be carcinogenic, teratogenic, mutagenic, immunosuppressive, tremor genic, hemorrhagic, hepatotoxic, nephrotoxic and neurotoxic. Controlling mould growth and mycotoxin production is very important to the feed manufacturer and livestock producer.



In addition, control of mycotoxins in animal diets would reduce the likelihood that mycotoxin residues would appear in animal products destined for human consumption.

What is ToxiFicks?

ToxiFicks is designed to bind mycotoxins like aflatoxins, ochratoxins, deoxynivalenol, zearalenone and to inhibit moulds

Composition :

It is basically composed of Hydrated Sodium Calcium Aluminosilicates, Sodium bentonite, buffered organic acids, MOS, Activated charcoal, Bacillus Subtilis, certain antioxidants and lipotropic agents..

“Toxificks” has superior mycotoxin binding capacity to trap all kinds of mycotoxins in feed and thus renders them innocuous.

Indication :

- 1.To prevent aflatoxicosis
- 2.To inhibit mold & microbial growth
- 3.To prevent caking of feed
- 4.To control & reduce feed contamination
- 5.To reduce pH of gut and feed
- 6.To prevent multiple mycotoxicosis like T2, Citrinin, Zeorelenone etc.)
- 7.To prevent Ochratoxicosis
- 8.To prevent fungal contamination
- 9.To prevent immune stress, stress on liver etc.
- 10.To prevent ill effects of pesticide residue

ToxiFicks protect's poultry/swine/cattle from:

1. Feed refusal
2. Diarrhea/Vomiting Sensation
3. Decreased performance
4. Suppression of the immune system
5. Reproductive disorders
6. Damaging of organs

Benefits of ToxiFicks :

1. Detoxifies feeds and other raw material ingredients
2. Prevents growth of mold & bacteria
3. Protects liver functions & immune status
4. Deactivate mycotoxins and radicals
5. Improves overall animal immune response to medication and performance

Dosage : 500g to 1kg per ton of feed depending on the moisture content/mycotoxin level in the feed.

Packaging : ToxiFicks is available in 25kg paper bags.

Shelf Life : ToxiFicks is stable for 24 months from the date of manufacture.

Fungus	Toxins	No Clinical Effects	Toxins	Clinical Signs
Aspergillus sp	Aflatoxins	<100ppb	300-2000ppb	Poor growth, Liver damage, Jaundice and Immuno-suppression.
Aspergillus sp and Pencillium sp	Ochratoxin & Citrinin	<100ppb	200-4000ppb	Reduced growth, Thirst, Kidney damage.
Fusarium sp	T2, DAS DON, (Vomitoxin)	<2ppm	4-20ppm	Reduced feed intake, immuno - suppression Vomiting.
Fusarium sp	Zearalenone (F2 toxin)	<0.05ppm	1-30ppm <30 ppm	Infertility, Anoestrus, Rectal prolapse, Pseudo pregnancy. Early embryo mortality, and Delayed repeat matings.
Fusarium sp	Fumonisin	<10 ppm	20-175	Reduced feed intake, Respiratory Symptoms, Fluid in lungs, Abortion etc.
Ergot	Ergotoxin	<0.05%	0.1-1.0%Ergot bodies by Weight (Sclerotium)	Reduced feed intake, Gangrene of the extremities, Agalactia to mammary gland failure etc.

The information and data contained herein has been compiled based on information we believe reliable. Users should thoroughly test all applications and independently conclude satisfactory performance before commercializations, as these recommendations are non-binding. User's assume all liabilities for use of the Products. We are not liable for any advice which we may have failed to give.

Management Office: Advanced Biotechnologies 87/2, All Seasons Place, CRC Tower, 36th floor, Wireless Road, Lumpini, Pathumwan, Bangkok, Thailand 10330 Telephone :+66 2 625 3077 Fax Number: +66 2 625 3000

Administrative Office: 202D, Dosti Pinnacle, Road No. 22, Wagle MIDC, Thane, West 400 604, Maharashtra, India Tel: +91-22-25830632 / 33 Fax: +91-22-25830631, Email: info@adbioenz.com, Website: www.adbioenz.com Customer Care No. : +91-9320589281