

## TECHNICAL DATA SHEET TOXIN BINDER

### General Indication

Animal feed safety has become more important, with mycotoxins representing one of the most significant hazards. Mycotoxins are toxic secondary metabolites produced naturally by fungi that grow on the various agriculture commodities. Poultry animals are sensitive to mycotoxins and can suffer from various toxic effects of mycotoxins. These mycotoxins damage the vital organs including liver, kidney and ovary of the birds. Thereby, result poor FCR, poor growth & development and poor production in the birds. Types of mycotoxins; Aflatoxins: (AFB1, AFB2, AFG1, AFG2), Ochratoxin A: (OTA) and Citrinin, Trichothecenes: Type A: Toxin T-2 Diacetoxiscirpenol (DAS) Fumonisin : (FB1, Fb2).

### Description

SP micro encapsulated Toxin Binder is high affinity toxin binder that binds mycotoxins found in the feeds. In the bound form of the harmful toxins pass through the elementary track of the birds and animals to be voided in the feces. Toxin Binder thereby helps to prevent the absorptions of the mycotoxins into the body and so protect the animals against their harmful, often fatal effects. Toxin Binder traps mycotoxins as a result of the electrostatic attraction to the aluminum ions, when mix with water. It has an enormous surface area so that it can act as a liner inside the intestine. The electrical properties of Toxin Binder make it to absorb bacteria and toxins in the intestine so that they can be eliminated.

### Benefits of Toxin Binder

- Protection against mycotoxins.
- Improve feed conversion rate.
- Inhibiting the growth of molds.
- Better growth, productivity and hatchability.
- Reduce mortality.

### Compatibility

Compatible with all types of feed ingredients. Dose not affects or absorb any vitamins, minerals, coccidiostats, antibiotics or any other feed additives.

### Shelf life

Best before 24 months from the date of manufacturing

### Storage

Store in dry, clean and well ventilated area.

### Packing

Available in 25kg HDPE bags

### Dose

Animal Species	Stage	Protoxin Dosage (g/ton) of feed
Broiler	Starter 0-21days	2000 -3000
	Grower-Finisher	1000 -2000
Laying hens	0-6weeks	2000-3000
	6-14weeks	1000-2000
	14-20weeks	500-1000
	20weeks	1000-2000
Pig		2000-3000
	Piglet	1000-2000
	Grower-Finisher Sow	500-1000

### Physicochemical properties and Composition

Item	Specification
Appearance	White or of white powder
Odour	Characteristic
Particle size	Fine powder
pH	5 - 7
Moisture	Max 5.0
Total inorganic matter	99.0
<b>Assay</b>	
Porous, Adsorptive clay mineral fraction containing Clinoptilolite (1 <sub>9568</sub> ) Sepiolite and (Hydrated Sodium Calcium Aluminium Silicate).	99.0
Heavy Metals	Max 10.0
Arsenic (As)	≤3
Lead (Pb)	≤30
Mercury (Hg)	≤0.1
Cadmium (Cd)	≤0.75

