

# QAS TOX

## NUTRITIONAL SUPPLEMENT IN ORAL POWDER

### 1. COMPOSITION

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Each g contains: bentonite-montmorillonite 465 mg, sepiolitic clay 320 mg, mannan-oligosaccharides 115 mg, kieselguhr 100 mg.

### 2. DESCRIPTION

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Mycotoxins can cause a negative impact on the animals using contaminated feedstuff. Mycotoxins are toxic secondary metabolites of fungi commonly found on grains, which can cause severe impacts on animal health and performance. **QASTOX** is a feed supplement for animal nutrition consisting in a well-balanced association of mineral and organic adsorbents: clays (bentonite-montmorillonite and sepiolite), diatomaceous earth (kieselguhr) and an association of polysaccharides  $\alpha$ -D-mannose and proteins (mannan-oligosaccharides) from cellular walls of *Saccharomyces cerevisiae*. **QASTOX** contributes to the well-being of the animal limiting the detrimental effects of the mycotoxins that may be present in the diet.

**QASTOX** prevents the animal from suffering mycotoxin poisoning by binding the toxic agents to an adsorbent surface and eliminating them with the faeces.

**Clays:** Clay minerals consist mainly of aluminium silicates. Chemically, silicates consist in compounds of silicon and oxygen and one or more metallic atom. Bentonite-montmorillonite and sepiolite are phyllosilicates forming sheets that can retain water and

organic molecules - as mycotoxins – as their sheets are mobile and expandable.

**Kieselguhr (diatomaceous earth):** kieselguhr is a mineral from vegetal origin formed by the accumulation of fossilised unicellular algae. The silicon content of the diatomaceous earth is about 65% although in some cases may reach 90 %. Kieselguhr fixes the mycotoxins in their surface by Van der Waals forces.

**Mannan-oligosaccharides:** *Saccharomyces cerevisiae* has an external wall consisting of a complex mannan-protein that is an association of polysaccharides  $\alpha$ -D-mannose and proteins (mannan-oligosaccharides, MOS). MOS link directly to 1,3- $\beta$ -glucan and indirectly to 1,3- $\beta$ -glucan. MOS contain a number of fimbriae-like glycoside-peptides (50-95 %) reaching out from the cellular wall, able to agglutinate the mycotoxins present in the digestive tub. They have been used also instead of anticoccidial drugs and as growth promoters.

### 3. RECOMMENDED USE

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- Prevention of intoxication by mycotoxins, and especially aflatoxins in poultry.
- Prevention of decreased performance in poultry, due to intoxication of mycotoxins.
- Feed supplement for poultry.

### 4. CONTRAINDICATIONS

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None described.



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### 5. ADVERSE REACTIONS

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None described.

### 6. SPECIAL PRECAUTIONS

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Do not exceed the maximum dose of 20 kg per 1000 kg of feed.

### 7. ADMINISTRATION

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Oral use in feed.

Mix 0.5 - 1 kg QASTOX / 1000 kg feed.

### 8. TARGET SPECIES

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Poultry.

### 9. WITHDRAWAL PERIOD

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Zero days.

### 10. STORAGE CONDITIONS

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Store below 30 °C.

Protect from light.

Shelf life after first opening: 3 months.

### 11. SIZES

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25 kg



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