

THE COMPETITIVE ADVANTAGE WITH OUTSTANDING BENEFITS

Sacox[®]

INTRODUCTION

Sacox[®] 120 microGranulate (Salinomycin sodium) is the most potent member of the coccidiostat class known as polyether antibiotics, commonly referred to as ionophores. Sacox[®] has been used worldwide for many years in a variety of species, as an anticoccidial in broilers, replacement chickens and rabbits. During the years of Sacox[®] use as a coccidiostat, no adverse effects on either feed intake or feathering have been observed, regardless of the season and temperature.

Sacox[®] (salinomycin sodium) is active against protozoan parasites but also has activity against bacteria, especially *Clostridium perfringens*.

Salinomycin is a fermentation product, formed by a group of *Streptomyces albus* (ATCC21838).



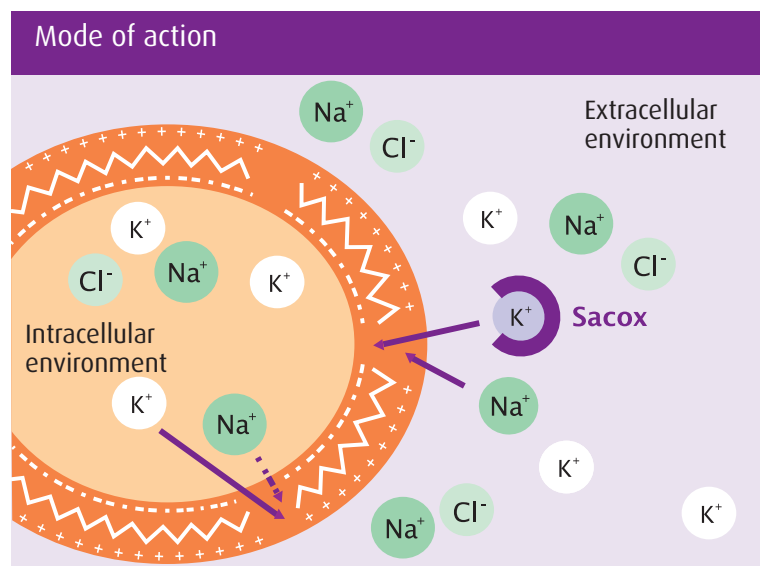


Sacox® 120 microGranulate is an anticoccidial feed additive for the prophylactic control of the coccidial species: *E. acervulina*, *E. maxima*, *E. necatrix*, *E. praecox*, *E. mitis*, *E. tenella* and *E. brunetti* affecting chickens for fattening and chickens reared for laying. It is also applied in rabbits for fattening for prevention of coccidiosis caused by *E. coecicola*, *E. perforans*, *E. media*, *E. irrisidua*, *E. magna*, *E. piriformis*, *E. intestinalis*, *E. flavescens*, *E. stiedae*.

MODE OF ACTION

The biological activity of Sacox® is due to its ability to form complexes with cations, particularly its ability to transport potassium ions into and out of the cell. The resulting disturbance in the parasite's intercellular ion concentration explains the coccidiocidal activity.

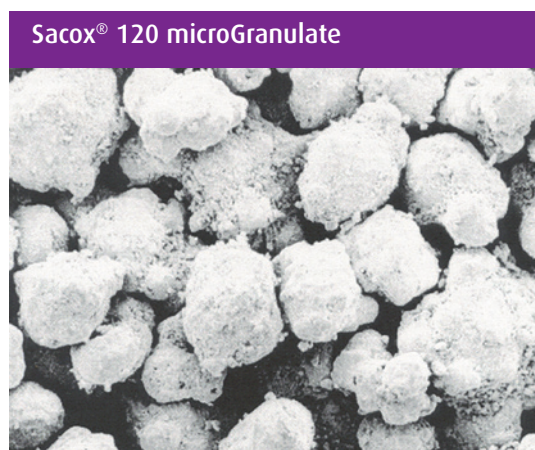
During asexual development of the coccidian, Sacox® has a coccidiocidal effect on sporozoties and merozoties. Subsequent development of schizonts is also severely impaired, resulting in a minimal damage of the intestine.



FORMULATION

Sacox® 120 is a microgranulated feed additive, containing 120g salinomycin sodium per kg.

The microgranulation process combines inseparably both the active substance and the carrier. This results in a uniform microgranulate with excellent flow characteristics and virtually no dust development. Sacox® can be homogeneously mixed in commercial premix and feed, ensuring an even dose to all birds for more consistent protection from coccidiosis.



STABILITY

The common processing methods for premixes and feed, including conditioning, pelleting, expansion or extrusion, have no influence on the stability and recovery of Sacox®.

ANTIMICROBIAL ACTIVITY SPECTRUM

Sacox® exhibits pronounced activity against Gram positive bacteria, especially anaerobes like *Clostridium perfringens*, the causative agent of Necrotic enteritis.

RESISTANCE

The risk of development of resistance is very slight. A strain of *E. tenella* still showed no resistance after 25 passages in the presence of Sacox®.

Generally, every population of coccidia may contain some individuals, which are able to tolerate or resist the effects of the applied anticoccidial to a certain extent. This is time dependant and influenced by management factors like density, ventilation and hygienic conditions.

PERFORMANCE

The recommended dosages of Sacox® exert no adverse effects on broiler growth performance. On average, there is an improvement in the growth rate, feed efficiency and mortality in comparison with control groups. At this dose rate, Sacox® has been used in billions of chickens to protect them from coccidiosis and to guarantee optimal performance.

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ADVANTAGES

- The world's most widely used salinomycin
- Reliable protection from coccidiosis
- An ionophore providing control against all major species of coccidia
- Mode of action minimizes potential for resistance
- Works well in all seasons, regardless of temperature
- No adverse effects on either feed intake or feathering
- No negative effect on water consumption
- Highly compatible with all feed ingredients
- Exact recovery in all types of premixes and feed
- Good flowability
- No caking and clumping in storage silos
- Good dispersion in premixes and feed
- Stable in all common methods of processing and preparation of the feed
- No problems with contamination or carry-over
- Profitable return on investment



DOSAGE

| Target species | Minimum and maximum content of salinomycin in complete feedingstuff (ppm) | Quantity of Sacox® 120 incorporated into the feedingstuff (g/ton) | Maximum age | Withdrawal period |
|----------------------------|---|---|-------------|-------------------|
| Chickens for fattening | 60 - 70 | 500 - 583 | - | 1 day |
| Chickens reared for laying | 50 | 417 | 12 weeks | - |
| Rabbits for fattening | 20-25 | 170-210 | - | 5 days |

In the recommended dosage range, Sacox® has no adverse effects.

PACKAGING

Sacox® 120 microGranulate is sold in 25 kg bags. It should be stored in a cool and dry place.

ENVIRONMENT

After its passage through the digestive tract of the bird, only very small quantities of Sacox® are excreted as active material. Degradation in the soil occurs with a half-life of 40-50 hours. Plants do not absorb Sacox® from the soil. Sacox® is insoluble in water.

WARNINGS

- For use in target species only
- Not to be used in breeding birds and turkeys
- Equines should be kept away from feed containing salinomycin sodium
- Not to be used together with Tiamulin in high dosages
- Avoid contact of the product with the skin, protect eyes and mucous membranes and wear protective clothes

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