

ALQUERNAT ZYCOX

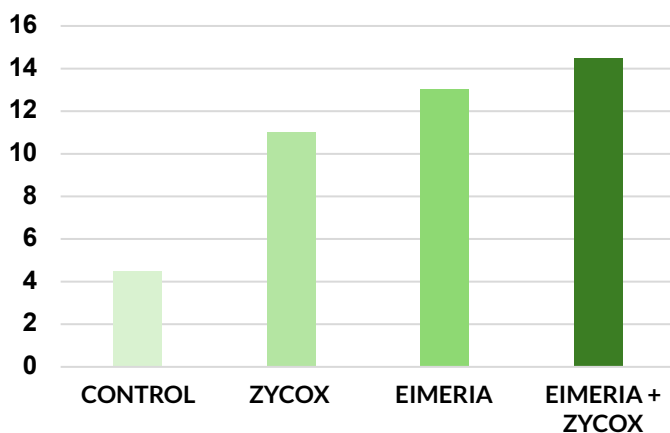
Eco-friendly coccidiosis control, with zero withdrawal.



- Based upon intestinal conditioner pronutrients
- Releases Interleukins:
 - IL-1 Amplifies immune response.
 - IL-12 Triggers TH1, NK cells and macrophages.
 - IL-18 Enhances IL-12 effects, activates NK & cytotoxic T cells
- Eliminating coccidia from intestinal cells
- Zero Withdrawal.
- Zero Residues.
- Zero Resistance build-up.

How Alquernat Zycox works

IL-12 EXPRESSION



Alquernat Zycox is a product based on intestinal conditioner pronutrients. Natural active ingredients from specific botanical species that activate the immune pathways in the gut responsible for coccidia control. In particular, Interleukin-12 (IL-12), the body's natural defence against Eimeria coccidia

WORKING WITH NATURE



INTERLEUKIN-1

- Amplifies the immune response

INTERLEUKIN-12

- Triggers Th1 defence against coccidiosis.
- Activates NK cells and macrophages.

INTERLEUKIN-18

- Activates NK cells.
- Cytotoxic T lymphocytes.
- Enhances IL-12 effects.

✓ Improved Feed Conversion Rate

Control group FCR = 1.461

Chemical coccidiostats = 1.408

Zycox group = 1.389

4.93% FCR improvement over controls

✓ Improved end weight day 35

Control group weight = 2.200

Chemical coccidiostats = 2.153

Zycox group = 2.216

✓ Lower %age mortality day 35

Control group mortality = 14.24%

Chemical coccidiostats = 8.24%

Zycox group = 4.55%

68% reduction compared to controls

45% reduction compared to chemical group

✓ Reduction of oocysts/g caecal content

Chemical coccidiostats = 11,000

Zycox group = 5,600

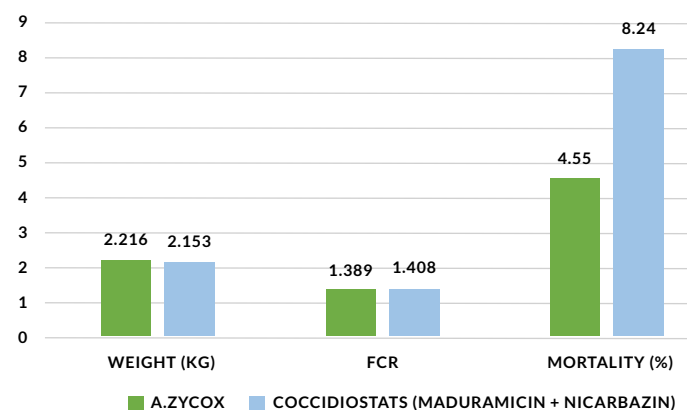
49% reduction of oocysts/g caecal content

✓ Zero withdrawal period

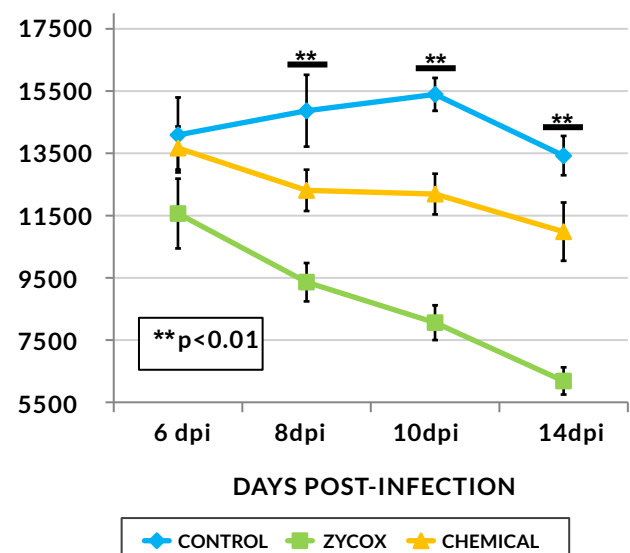
✓ Zero resistance build-up

✓ Zero residues

MAIN PRODUCTIVE PARAMETERS ON DAY 35



AVG. OF OOCYSTS/G OF CAECAL CONTENT



Preventing coccidiosis Alquernat Zycox Premix 25kg bag

Alquernat Zycox Premix is a patented natural product that helps prevent coccidiosis in production animals throughout their growing period.

ADD Premix at a rate of 0.5g/kg feed.

PREVENTION

Alquernat Zycox Premix start-2-finish

Starter

Grower

Finisher

Vaccine + Alquernat Zycox Premix

Vaccine

Grower

Finisher

Cocciostat + Alquernat Zycox Premix

Starter

Grower

Finisher

PREMIXTURE

PRODUCT SPECIFICATION:

Product based on intestinal conditioner pronutrients, natural active principles from specific botanical species, that active the immune pathways in the gut, responsible for the control of coccidia.

DIRECTIONS FOR USE:

ALQUERNAT ZYCOX (P) is intended to poultry (broilers, laying and breeding hens, turkeys) and swine of all ages. It's administered mixed with feed at 0.5 kg/tonne of feed.

- Dual programmes:
 - o Following Coccidiostats in the finisher feed
 - o With coccidia vaccines throughout the grower/finisher period.
- Replacement of coccidiostats/vaccines throughout the grower/finisher period.

Targeted multi-day treatments are also possible using Alquernat ZYCOX (L) administered through the waterlines.

In poultry, the simultaneous use with robenidine shall be avoided!

ADVICE FOR USE:

Keep in a dry, fresh and dark place with package well closed.

Keep out the reach of children.

NET WEIGHT: 25 KG

MODE OF ACTION:

Alquernat ZYCOX is a PRONUTRIENT-based product, these are complex molecules of vegetable origin which stimulate or regulate animal physiology WITHOUT causing any pharmacological effect.

In particular, intestinal optimizer pronutrients induce the expression of genes in the gut immune cells, thereby increasing functional protein synthesis, this in turn leads to enhanced cellular functionality.

Many intestinal pathogens, such as coccidia, colonize the gut mucosa causing an immune response. Pronutrients boost local immunity in the gut, interrupting the coccidia's reproductive cycle and helping to eliminate them from the gut epithelia.

Due to their mechanism of action pronutrients are:

- Effective
- Safe
- Have no resistance build-up

TARGETED USE OF ALQUERNAT ZYCOX LIQUID TO CONTROL LATE CYCLE COCCIDIOSIS

As the poultry industry moves away from the use of in-feed antibiotics, the role of organic coccidiostats and vaccines becomes more important.

Coccidiosis vaccines are given generally from 1 day of age through the drinking water, or by coarse spray. The vaccines are then cycled through the birds at least 3 times to stimulate immunity. However, the poultry house needs to be free of field strains of coccidia otherwise they will compete for the attention of the bird's immune system. The bird's immune status will affect the success of the vaccination and duration of immunity. These factors may lead to coccidiosis problems later in the growing cycle as immunity to coccidia wears-off.

Strategic use of Alquernat Zycox administered via the drinking water can be used to prevent late cycle coccidiosis.

A study involving two groups of 20,000 birds housed in separate buildings. The Control group was vaccinated against coccidiosis on day 1 and left without coccidiostats, or similar products. The Zycox group was also vaccinated on day 1 and provided with Alquernat Zycox Liquid via the drinking water from day 26 – 40. OPG (oocysts per gram) counts were used to monitor the status of the two flocks.

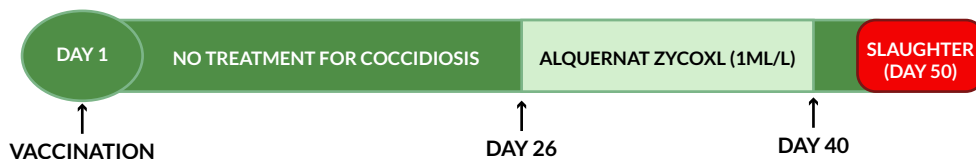
EXPERIMENTAL DESIGN (TIMELINES)

CONTROL GROUP



VACCINATION

TEST GROUP

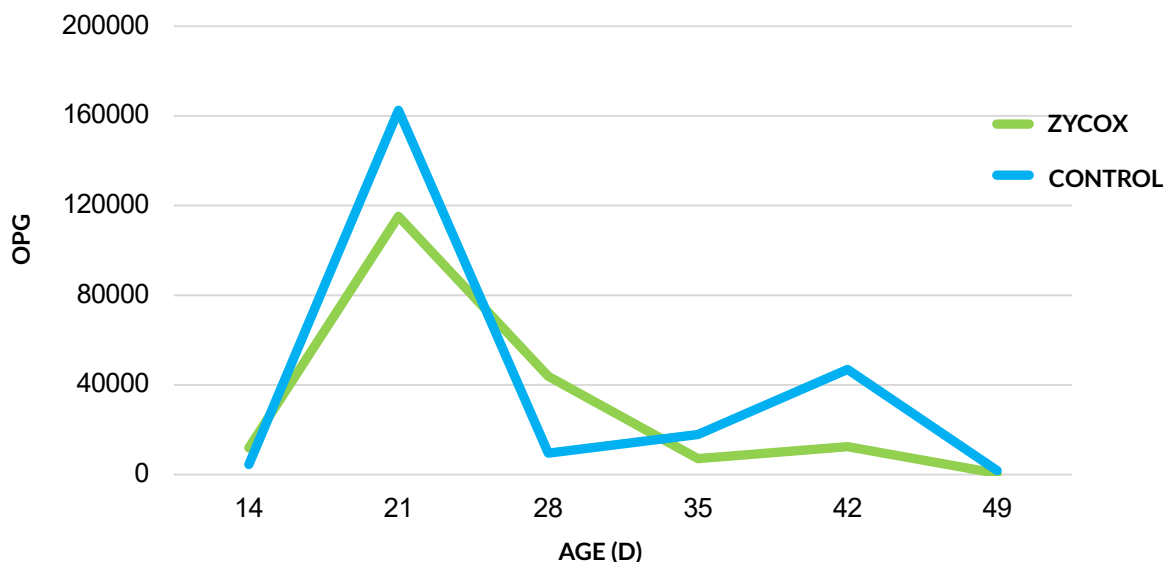


VACCINATION

DAY 26

DAY 40

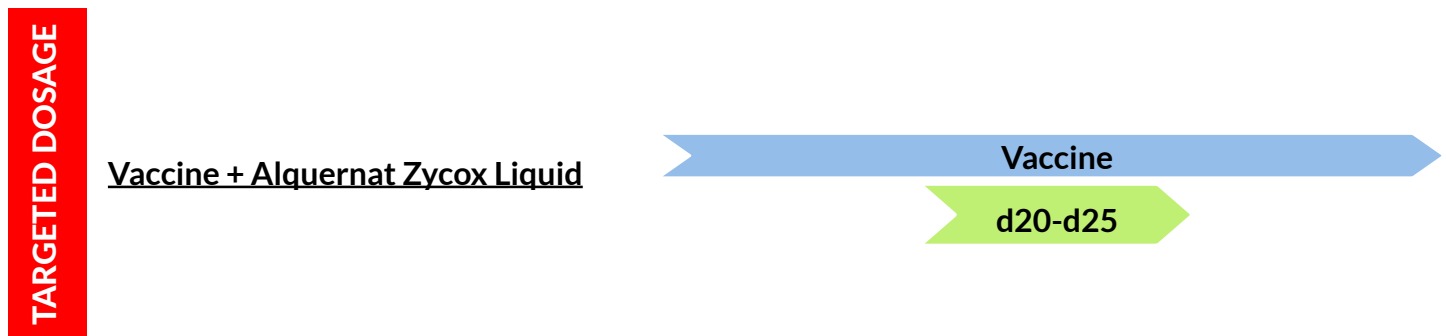
OPG FOR ALL *EIMERIA* SPECIES OVER TIME



The flock treated with Alquernat Zycox from day 26 – 40 had a 73.5% lower OPG than the control group at day 42. (note: OPG's were not conducted at slaughter and are shown as zero on the graph).

The specific recommendation for the use of Alquernat Zycox against Late Cycle Coccidiosis will depend upon the flock's vaccination status and management system. Veterinary input is advised for planning a specific coccidiosis control strategy.

However, as a general recommendation is:



Alquernat Zycox can be administered via the Drinking Water to animals when an outbreak of coccidiosis has been detected, or in anticipation of an outbreak.

Dosage:

0.25 ml/l DW given continuously throughout the cycle;
0.5 ml/l DW for covering the risk period;
1 ml/l DW, ONLY for the high infection or as a treatment;
or alternatively,
5ml/kg Feed.

Available pack sizes:

1 litre
5 litre
25 litre (by request)

