

*Exclusively for Brazil. Product licensed in the Brazilian market



POULTRY

Avensin® 40%

Controls coccidiosis and improves the performance of the birds.



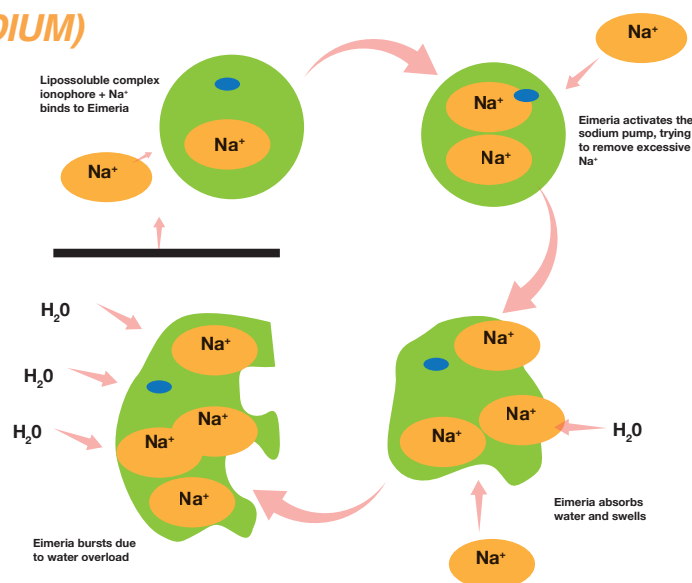
HEALTHY ANIMALS. HEALTHY FOOD. HEALTHY WORLD.®

Phibro
ANIMAL HEALTH CORPORATION™

AVENSIN® GRANULAR 40% (MONENSIN SODIUM)

- Monensin Sodium 40% - polyether ionophore.
- Granulated Product: improved mixability and no adherence to equipment.
- Quality Assurance: strict quality control in our own laboratory (FDA-approved).
- Consistent Results: reduction in lesions and mortality caused by coccidiosis, improved performance.

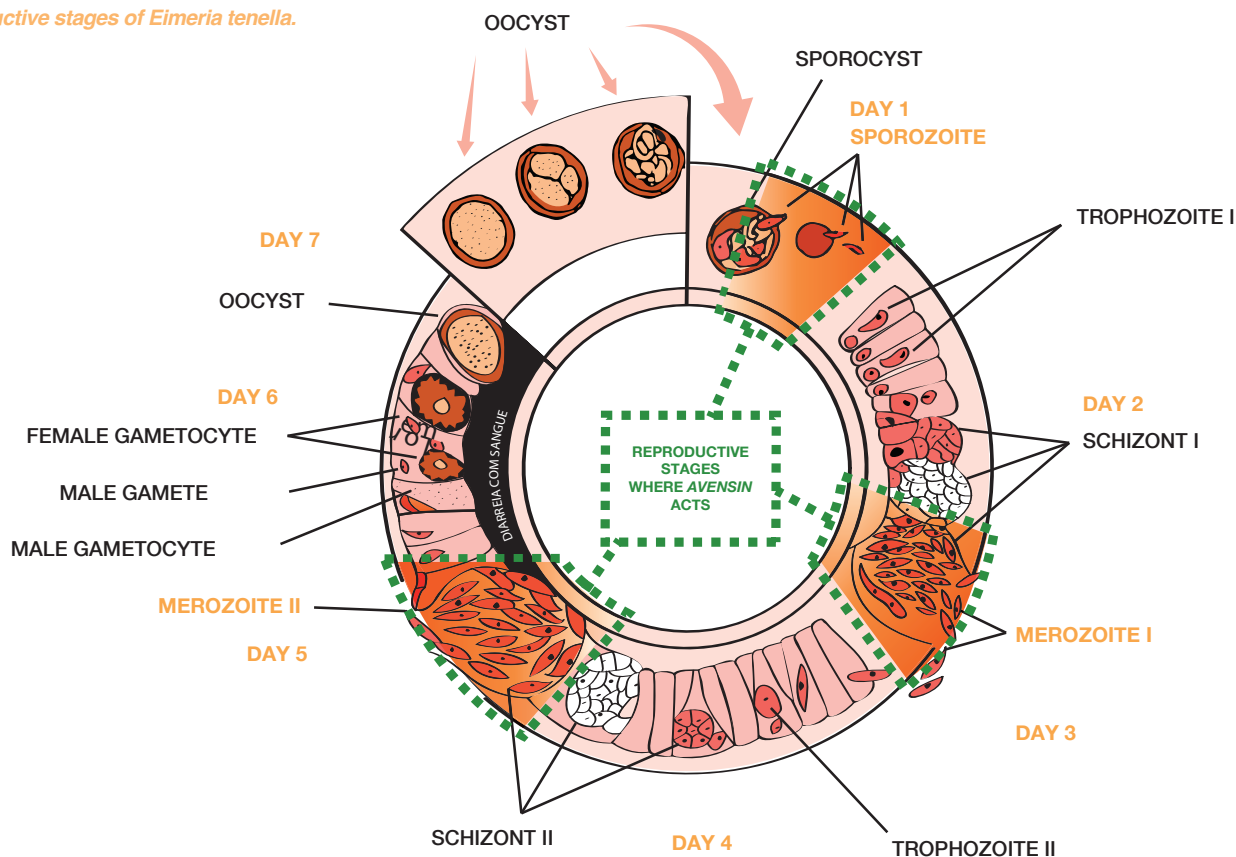
The ionophore monensin sodium contained in **Avensin** is a fermentation product of *Streptomyces cinnamonensis*. The mode of action of **Avensin** consists in the dynamic formation of liposoluble complexes, reversible in the presence of monovalent cations (Figure 1).



AVENSIN: SITE OF ACTION IN THE EIMERIA CYCLE

Avensin acts on the Eimeria parasite stages present in the gut lumen, but still allowing the development of immunity while reducing the effects of coccidiosis. In turn, profitability is improved, as a result of better intestinal health.

Figure 2 - Action of Avensin on the reproductive stages of Eimeria tenella.



ANTICOCCIDIAL ACTION OF AVENSIN

Avensin is an effective anticoccidial, and is active against E. acervulina, E. maxima and E. tenella.

AVENSIN - DEPLETION TRIAL FOR MEASURING MONENSIN RESIDUES IN BROILERS

Phibro has conducted a trial aiming at measuring the concentration of monensin residues (Avensin Granular 40) in broilers and establishing the withdrawal periods. Table 1 shows the MRL's established for monensin by some importing countries, Brazil, and the Codex Alimentarius, as well as the monensin residues detected in tissues of broilers fed Avensin at zero and 1 day withdrawal.

Table 1. Maximum Residue Limits (MRLs) for monensin in ppb (parts per billion) and results of the depletion study * Avensin.

	AVENSIN GRANULAR 40%	European Union	Brazil (PNCRC – MAPA 2017)	Japan	Canada	Korea	Codex	Russia	USA
Muscle (ppb)	2,87 ppb (0 d) e ND (1 d)	8 ppb	10 ppb	10 ppb	50 ppb	50 ppb	10 ppb	Not established	Not established
Skin + fat (ppb)	8,73 ppb (0 d) e 4,87 (1 d)	25 ppb	NA	100 ppb	50 ppb	50 ppb	100 ppb		
Kidney (ppb)	ND (0 d) e ND (1 d)	8 ppb	NA	10 ppb	50 ppb	50 ppb	10 ppb		
Liver (ppb)	5,22 ppb (0 d) e ND (1 d)	8 ppb	NA	10 ppb	50 ppb	50 ppb	10 ppb		

* LC-MSMS Method, DL = 0.5 ppb and QL = 1 ppb; ND ≤ Q

Table 2. Proven performance results in 42 day-old broilers fed Avensin Granular 40, at the 120 ppm dose.

Treatments	# of housed broilers	Mortality rate, %	Average weight (42d)	FCR
Control (challenged, not treated)	960	7,291 a	2,037	2,232 a
Avensin Granular 40 (120 ppm, challenged)	960	4,062 b	2,034	2,198 b

Adapted from Phibro internal source, code 160704BR

USE INSTRUCTIONS

250 to 300 grams/ton of feed or
100 to 120 ppm of sodium monensin.
Net weight: Bags of 25 kg.

