

LITERATURE

- LOGAN, N. B. *et al.* Anticoccidial efficacy of semduramicin. 2. Evaluation against field isolates including comparisons with salinomycin, maduramicin and monensin in battery tests. *Poultry Science*, v. 72, n. 11, p. 2058-2063, 1993.
- PESTI, G. M. *et al.* Studies on Semduramicin and nutritional responses: 1. level and source of protein. *Poultry Science*, v. 78, n. 1, p. 102-106, 1999a.
- PESTI, G. M. *et al.* Studies on Semduramicin and nutritional responses: 2. methionine levels. *Poultry Science*, v. 78, n. 8, p. 1170-1176, 1999b.
- PESTI, G. M. *et al.* Studies on Semduramicin and nutritional responses: 3. electrolyte balance. *Poultry Science*, v. 78, n. 11, p. 1552-1560, 1999c.
- RICKETTS, A. P.; GLAZER, E.A.; MIGAKI, T.T.; OLSON, J.A.; Anticoccidial efficacy of semduramicin in battery studies with laboratory isolates of coccidia. *Poultry Science*, v. 71, n. 10, p. 98-103, 1992.

*Exclusively for Brazil. Product licensed in the Brazilian market



The newest ionophore against Eimeria maxima. An excellent option for anticoccidial rotation programs.





AVIAX® 5% (Semduramicin sodium)

Manufactured according to world-class standards. One of the crucial aspects of an effective coccidiosis control program is the assurance of a consistent supply, minimizing the risks of product shortage. Both **Aviax 5%** and **Aviax® Plus** are manufactured by Phibro in Brazil, according to strict quality and safety standards, in compliance with Good Manufacturing Practices – GMPs, reducing the risk of supply inconsistencies.

Aviax 5% is an unique product, that is highly effective for the control of coccidiosis in broilers. Semduramicin, the newest ionophore (1995). Aviax 5% is an excellent choice to improve efficacy of anticoccidial rotation programs.

- Excellent flowability and ease of mixing
- **Aviax** is licensed in Europe, USA, Japan, and Latin America, among other countries
- Zero withdrawal in Brazil and USA
- 5-day withdrawal in Europe

EFFICACY OF SEMDURAMICIN AGAINST COCCIDIOSIS

Aviax 5% is the ionophore of choice for the control of *Eimeria maxima*, and is excellent in the control of *Eimeria tenella*, both as single agent or in combination with Nicarbazine. Can also be used for good control of coccidiosis caused by *Eimeria acervulina*. Fifty seven studies conducted in floor pens with field strains from Europe and United States (*Eimeria acervulina*, *Eimeria mivati*/*Eimeria mitis*, *Eimeria brunetti*, *Eimeria maxima*, *Eimeria necatrix* and *Eimeria tenella*) have shown that the 25 ppm dose of Semduramicin is effective to control mortality rates, lesion scores, and inhibits weight gain depression when compared to non-infected or non-treated control groups, for all tested eimeria species (Logan *et al.*, 1993).

The 20 and 30 ppm doses of semduramicin were shown to be effective against a wide spectrum of *Eimeria* species (*E. acervulina*, *E. maxima*, *E. tenella*, *E. necatrix* and *E. brunetti*), reducing the lesion scores and inhibiting weight loss, when compared to non-infected and non-treated control groups (Ricketts *et al.*, 1992).

Table 1 shows the effectiveness of **Aviax Premix 5%**, at the 25 ppm dose, in reducing lesion scores caused by main *Eimeria* species, especially *Eimeria maxima*.

Species	Treatments	Lesion score distribution (%)				
		0	1	2	3	4
<i>Eimeria maxima</i>	Non infected, non medicated ^a	100	0	0	0	0
	Infected, non medicated ^c	0	5	44	37	15
	Semduramicin 25 ppm ^b	12	41	31	13	3
	Salinomycin 60 ppm ^e	8	30	40	17	5
	Maduramycin 5 ppm ^d	4	26	42	20	5
	Monensin 100 ppm ^d	3	20	50	22	5
<i>Eimeria tenella</i>	Non infected, non medicated ^a	100	0	0	0	0
	Infected, non medicated ^c	1	5	32	27	36
	Semduramicin 25 ppm ^c	12	31	34	18	6
	Salinomycin 60 ppm ^e	17	32	23	21	8
	Maduramycin 5 ppm ^b	24	39	21	13	3
	Monensin 100 ppm ^d	10	22	35	19	14
<i>Eimeria acervulina</i>	Non infected, non medicated ^a	97	3	0	0	0
	Infected, non medicated ^c	0	0	23	29	47
	Semduramicin 25 ppm ^c	20	13	22	18	27
	Salinomycin 60 ppm ^b	31	21	26	14	8
	Maduramycin 5 ppm ^d	15	13	20	19	33
	Monensin 100 ppm ^d	9	10	36	25	21

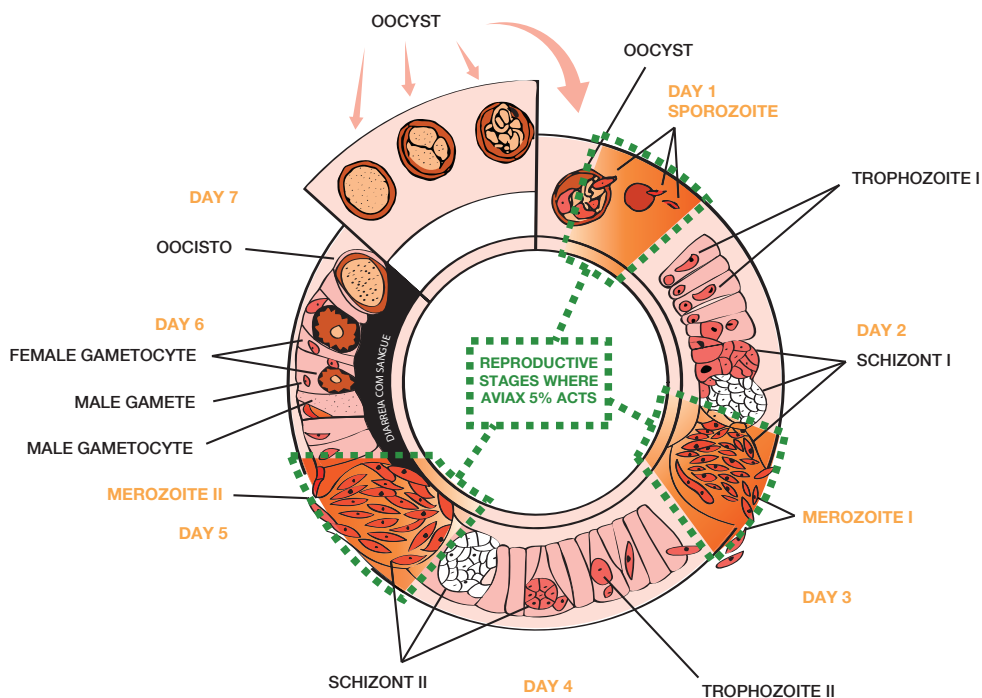
AVIAX 5%: SITE OF ACTION IN THE EIMERIA CYCLE

Aviax 5% acts on the *Eimeria* parasites present in the gut lumen.

It stimulates immunity and, most importantly, reduces the impact of coccidiosis improving financial gains as a result of improved gut health.

Aviax 5% reduces the impact of coccidiosis thanks to an optimal control and effectiveness which translates into better performance.

Figure 1 - Action of Aviax 5% on the reproductive stages of *Eimeria tenella*.



FEED INTAKE REMAINS STABLE

One of the concerns of poultry technicians when treating broilers against coccidiosis is related to potential negative effects on the performance of the birds. In floor pen studies conducted by Pesti *et al.* (1999a, 1999b e 1999c), a 25 ppm dose of Semduramicin was given to non-challenged broilers. Feed intake and feathering of treated broilers were compared to a control group (broilers fed the control diet without anticoccidials).

No changes were seen in feed intake at the recommended doses – 20 to 25 ppm.

PHIBRO INTESTINAL HEALTH PROGRAM

The Phibro Intestinal Health Program is a comprehensive plan, adapted to winter and summer challenges, and maintains intestinal health at all ages and under different management conditions.

Griller and Heavy Broiler

	PRE-STARTER	STARTER	GROWER	FINISHER
Summer	Aviax® 5% - 600g/ton	Aviax® 5% - 600g/ton	Coxistac® - 550g/ton	Coxistac® - 500g/ton
Winter - Option 1	Nicarmix® - 400 to 500g/ton	Nicarmix® - 400 to 500g/ton	Aviax® 5% - 400 to 500g/ton	Aviax® 5% - 400 to 500g/ton
Winter - Option 2	Nicarmix® - 400 to 500g/ton	Nicarmix® - 400 to 500g/ton	Avensin® - 300g/ton	Avensin® 300g/ton

Withdrawal periods: 10 days for Nicarmix® and Aviax® Plus, and 3 days for Avensin®.

AVIAX 5%

Anticoccidial for broilers, contains Semduramicin, for the prevention of coccidiosis caused by *E. maxima*, *E. tenella*, *E. acervulina*, *E. mitis/mivati*, *E. brunetti* and *E. necatrix*.

Composition: 5% Semduramicin.

Dosage: 400 to 500 grams per ton of feed or 20 to 25 ppm.

Withdrawal period: not required in Brazil and USA and 5 days in Europe.

Net weight: Bags of 25 kg.

