COMPARISON OF THE EFFICACY OF DIFFERENT ANTICOCCIDIAL PRODUCTS IN CONTROLLING COCCIDIOSIS IN BROILERS UNDER EXPERIMENTAL CONDITIONS

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The anticoccidial efficacy of 5 coccidiostats was evaluated in a battery cage trial (broilers, Ross308 males).

Body weight (BW), feed conversion rate (FCR) and total mean lesion score (TMLS; Johnson&Reid,1970) were compared to an infected untreated control (IUC) and an uninfected untreated control (UUC).

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| --- | --- | --- | --- |
| Groups\* | Brand name | Dosage applied | Registered dosage |
| UUC | - | - | - |
| IUC | - | - | - |
| Narasin | Monteban | 40 ppm | 60-70 ppm |
| Monensin | Coxidin | 40 ppm | 100-125 ppm |
| Nicarbazin | Koffogran | 40 ppm | 125 ppm |
| Narasin/nicarbazin | Maxiban | 40/40 ppm | 40/40 ppm |
| Monensin/nicarbazin | Monimax | 40/40 ppm | 40/40 – 50/50 ppm |

\* Challenge at day (D)17 with mixed *Eimeria* isolate (gavage); Products in feed from D13-D23 (end study).

Only monensin/nicarbazin (0.67), narasin/nicarbazin (2.83) and nicarbazin (3.33) were able to significantly lower TMLS in comparison with IUC (4.69). All treated groups (except narasin) had significantly higher BW compared with IUC, with monensin/nicarbazin having a significantly higher BW in comparison with the others. FCR was significantly reduced in narasin/nicarbazin (1.58) and monensin/nicarbazin (1.53) groups compared with IUC.

Best results were obtained by narasin/nicarbazin and monensin/nicarbazin (Monimax®), with Monimax® being significantly more efficacious. Lower results with the non-combination products are normal as these products were included below registered dosages. Addition of narasin to nicarbazin did not result in significant improvements versus nicarbazin alone whereas addition of monensin to nicarbazin resulted in significantly lower lesion scores and higher BW. Results may be partially explained by better performance of monensin than narasin in this trial, but also indicate a better effect of combining nicarbazin with monensin than with narasin.