EVALUATION OF HEAT-STRESS TOLERANCE OF MONIMAX® IN BROILERS

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A floorpen study was performed to evaluate the tolerance of Monimax® (monensin/nicarbazin) in broilers in hot climate conditions. The trial was performed without coccidiosis challenge in order to evaluate only the potential impact of the products in relation to heat stress on performance.

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| Groups\* | Dosage ppm | Days (D) |
| Negative control | - | - |
| Monensin/nicarbazin (Monimax®) | 50/50 | D1-D42 |
| Narasin/nicarbazin (Maxiban®) | 50/50 | D1-D42 |
| Monensin/nicarbazin (Monimax®)  + monensin (Coxidin®) | 50/50  + 100 | D1-D14  + D15-D41 |
| Lasalocid (Avatec®) | 100 | D1-D37 |

\* per group: 8 replicate pens with 22 birds per pen (Ross 308)); no coccidiosis challenge.

Parameters: temperature, average daily gain (ADG), feed conversion rate (FCR), European Poultry Efficiency Factor (EPEF), mortality rate.

High temperatures were measured during the entire trial: maximum temperature remained between 28°C and 35.5°C.

No significant differences in ADG, FCR, EPEF and mortality were observed between the different groups, including the negative control. The monensin/nicarbazin (D1-D42) program showed the numerically lowest mortality rate (2.84%) in comparison to the others: Negative control: 3.98%; narasin/nicarbazin: 5.11%; monensin/nicarbain + monensin: 3.98%; lasalocid: 4.55%.

From these trial results, it can be concluded that no heat stress related mortality or performance losses were observed in any of the groups receiving the coccidiostats in the feed. Interestingly the mortality rates of both groups receiving the monensin/nicarbazin combination (Monimax®) were numerically lower than the narasin/nicarbazin group and the lasalocid group.

The results indicate that Monimax® can be used the whole year round, also during the summer season, without concerns for heat stress related problems.