

## **BBD-PP-06**

### **TITLE**

FIELD STUDY COMPARING AIVLOSIN® PREMIX WITH DENAGARD 80% IN BRAZILIAN PIGS NATURALLY INFECTED WITH MYCOPLASMA HYOPNEUMONIAE AND LAWSONIA INTRACELLULARIS.

Ronie W Pinheiro<sup>1</sup>, Bruno Zinato Carraro<sup>1</sup>, Jose Antonio Caon Ferreira<sup>2</sup>, Jordi Mora<sup>2</sup>

<sup>1</sup> *Integrall Soluções em Produção Animal Ltda. Rua Tenente Bino, 22 /303. Patos de Minas, MG. Brazil;*

<sup>2</sup> *ECO Animal Health Ltd, Southgate, London, UK*

### **CONTENT**

This study compared treatment with a novel, macrolide premix with a pleuromutilin premix in a Brazilian pig unit with respiratory problems in grower/finisher pigs. Pigs were positive for *Mycoplasma hyopneumoniae* and secondary respiratory pathogens. Material and methods 1,200 weaners (22 days of age) were allocated randomly to one of two treatment groups: T1 - Aivlosin® Premix (42.5 mg/g Premix for Medicated Feeding Stuff for Pigs, ECO Animal Health Ltd.) - 42.5 ppm in-feed (to provide 2.125 mg tylvalosin/kg BW/day) T2 - Denagard® 80% Premix (Elanco) - 150 ppm in-feed (to provide 7.5 mg tiamulin/kg BW/day) Treatments were given at 30-44, 65-79 and 120-134 days of age. Health and performance parameters were measured over two periods, 22-56 (nursery) and 22-154 (nursery and finishing) days of age. Coughing scores, percentage mortality, percentage pigs sent to the infirmary, Weight Gain, Average Daily Gain and Feed Conversion Ratio (FCR) were measured. Lung scores (Goodwin method) were performed on 240 pigs randomly chosen at slaughter. Results In the nursery, pigs in T1 had significantly ( $p < 0.05$ ) better weight gain than pigs in T2, gaining 413 grams/12.1 grams/day more. There were no differences ( $p > 0.05$ ) for FCR. Pigs in T1 gained 1.82 kgs more ( $p = 0.04$ ) than pigs in T2 in nursery and finishing. Pigs in T1 had lower percentage pneumonic lungs (43% vs 54%), lower lung lesion scores (7.31 vs 9.17) and significantly lower percentage of lung abscesses (0 vs 4.17%). There were no other significant differences. Conclusion Pigs in T1 had lower lung scores, percentage of pneumonic lungs and significantly lower prevalence of lung abscesses than pigs in T2. Pigs in T1 had lower FCR and gained more weight in the nursery and wean to finish stages, while using 28% of the amount of antimicrobial of pigs in T2. ®Aivlosin is a registered trademark of ECO Animal Health Ltd., London, United Kingdom® Denagard is a trademark of Elanco, Indianapolis, USA