



293 Research paper

Effects of dietary hop beta-acids or colistin on the performance, nutrient digestibility, and intestinal health of weanling pigs

by Sbardella, M., Perina, D.P., Andrade, C., Santos, C.B., Cairo, P.L.G.,
2016 Animal Feed Science and Technology 217: 67-75

In **Significant Impact Groups:**

Feed / gut health \ Feed additives and supplements Specific

Species targeted: Pigs;

Age: Young;

Summary:

This study evaluated the effects of hop (*Humulus lupulus*) beta-acids or colistin on several parameters, namely body weight (BW), Average feed intake (ADFI) Average daily gain (ADG), gain:feed ratio (G:F). Two hundred 21-d weaned pigs fed diets supplemented with 0 (negative control), 120, 240, or 360 mg/kg hop beta-acids, or with 40 mg/kg colistin (antimicrobial control) during a 35-d experiment. Increasing dietary levels of hop beta-acids improved linearly BW, ADG, G:F, and digestibility in weanling pigs. The colistin treatment improved BW, ADG, and G:F compared to the negative control. No difference in growth performance was observed between hop beta-acids levels and colistin. Overall, the occurrence of diarrhea was lower for colistin, negative control, and 360 mg/kg hop beta-acids than for other levels. In conclusion, dietary hop beta-acids concentrations up to 360 mg/kg improved weanling pig growth rate by affecting the efficiency of feed utilization, as well as observed for colistin.

293 Research paper - Sbardella - 2016 - Effects of dietary hop beta-acids or colistin on the performance nutrient digestibility and intestinal health of weanling pigs

Where to find the original material:

<https://www.sciencedirect.com/science/article/pii/S0377840116301420>;

<http://dx.doi.org/10.1016/j.anifeedsci.2016.04.007>

Country: BR