



288 Research paper

Effects of dietary allicin on health and growth performance of weanling piglets and reduction in attractiveness of faeces to flies

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In Significant Impact Groups:

Feed / gut health \ Feed additives and supplements

Species targeted: Pigs;

Age: Young;

Summary:

The effect of allicin on health and growth performance of weanling piglets was investigated at 21 days of age. Two hundred and twenty-five piglets were weaned and allocated into five groups. Piglets in the control group were fed diets supplemented with antibiotics. In the treatment groups pigs were fed diets without antibiotics, but supplemented with allicin product (25% pure allicin oil) with 0.10 g/kg, 0.15 g/kg, 0.20 g/kg and 0.25 g/kg in the diet, respectively. After 28 days, the average daily weight gain increased as the level of dietary allicin increased; whereas feed gain ratio, the incidence of diarrhoea in the treatment piglets decreased (especially female piglets) and the number of flies on the surface of the faeces decrease with increased allicin. In conclusion, diets with allicin may improve growth performance, reduce the incidence of diarrhoea and improve their local environmental conditions due to lower number of flies.

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