

The effect of corn distiller's dried grains with solubles (DDGS) on growth and carcass performance of the finisher KHAPS black pigs ⁽¹⁾

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Abstract

In order to decrease feed cost and to increase the diversity of feedstuffs, we evaluated the performance of KHAPS black pigs fed with finishing diet inclusion of corn distiller's dried grains with solubles (DDGS). Forty-two finishing KHAPS black pigs were randomly allotted to three treatments, including the basal finishing diet (Treatment 1) based on corn-soybean meal; Treatment 2 and 3 were the basal diet supplemented with 15% and 25% DDGS respectively to replace partial corn and soybean meal. Pigs were fed *ad libitum* for twelve weeks. The feed costs of the three diets were 11.7, 10.2 and 9.7 NT dollars/kg and the pork production costs per kilogram were 47.6, 41.3 and 40.6 NT dollars, respectively (cost down up to 13.2% and 14.7% in diet 2 and 3). The results showed that the ADG of Treatment 3 tended ($P < 0.10$) to be higher than that of the control group during 0-3 weeks, but there were no difference on ADG and G:F ratio among treatments during the period of 12 weeks. The plasma cholesterol concentration of the DDGS 15% group was significantly ($P < 0.05$) lower than the control group on 12th week. No detrimental effect was found on the carcass traits among treatments. However, the muscle color scores of the two DDGS-supplementing treatments were higher than the control group ($P < 0.05$). Results indicated that DDGS included in the diet of finishing KHAPS black pigs did not affect the growth performance and carcass traits and that also can positively reduce feed cost.

Key words: KHAPS black pigs, DDGS, Growth performance, Carcass traits.

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