

Inclusion of zero-tannin fababeans and substitution for soybean meal in nursery diets on weaned pig performance

F. O. Omogbenigun¹, R.T. Zijlstra² and E. Beltranena¹

Alberta Agriculture, Food & Rural Development, #204, 7000 - 113 St, Edmonton, AB T6H 5T6; ²Department of Agricultural, Food & Nutritional Sciences, University of Alberta, Edmonton, AB. T6G 2P5; **Email:** ¹eduardo.beltranena@gov.ab.ca, ²ruurd.zijlstra@ualberta.ca

Three hundred crossbred Hypor piglets were used in a 21 d trial to determine the effect of the dietary inclusion of 0, 10, 20, 30 and 40% locally-grown zero-tannin fababeans in substitution for imported soybean meal on post-weaning growth performance.

At weaning and on Day -3 (d 11 post-weaning), available pigs were weighed, and the derived BW gain was used to select suitable pigs for the trial. Selected pigs were then sorted based on gender and litter of origin. Gilts and barrows were then sorted into weight categories and randomly allocated to pens. The five test diets were then randomly assigned to pens, and pigs had ad libitum access to the diets for three weeks. Pigs were individually weighed on day 0, 7, 14, and 21. Fresh fecal grab samples were collected randomly from one pig in each pen for the last three days of the study, were pooled and analyzed to calculate digestibility coefficients.

Implications:

For each weekly period and the overall trial, ADFI, ADG, and G:F were similar ($P > 0.05$) among treatments. These results indicate that locally grown zero-tannin fababeans can totally substitute for imported soybean meal in late nursery diets and that weaned pigs do not require a progressive dietary adaptation to Snowbird fababeans.