AN EVALUATION OF THE NUTRITIVE VALUE OF CANOLA MEAL FOR YOUNG PIGS

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In Europe rape with less than 35 μ mol/g of glucosinolate is called double-low and in Canada cultivars of rape with less than 30 μ mol/g of glucosinolates are termed canola. Several experiments have demonstrated reduced feed intake and reduced performance of young pigs fed canola meal (CM) supplemented diets (Baidoo $\underline{\text{ttali}}$ $\underline{\text{typ}}$) s s i b l e t h a t the reduced feed intake is due to a low palatability of CM. The objective of this experiments was to determine if prior exposure to CM-or the addition of a feed flavour to CM-supplemented diets would increase the feed intake of pigs fed CM-supplemented diets.

Seventy-two crossbred pigs with an initial weight of 8.0 ± 0.4 kg were assigned (3 pigs/pen) on the basis of initial weight to diets supplemented with soya bean meal (SBM) (48 pigs) or 8.5% CM (24 pigs). After 14 days on test, half the pigs fed the SBM diet were switched to a diet containing 8.5% CM. The diets were fed ad libitum with and without the addition of a flavour additive (ultra sweet pignectar) from 12 to 20 kg live weight.

Prior exposure to CM did not significantly influence the feed intake of pigs fed CM-supplemented diets (Table 1). There was no significant difference in feed intake, growth rate or feed to gain ratio of pigs fed diets supplemented with SBM or 8.5% CM. The addition of a feed flavour to the SBM or CM-supplemented diet did not improve feed intake or pig performance (Table 2).

TABLE 1 The effects of prior exposure to canola meal on subsequent feed intake on canola meal-supplemented diets (12-20 kg)

Prior exposure* to 8.5% CM CM in diet (%) Daily feed (g) Daily gain (g)	no 0 869 555	no 8.5 854 499	yes 8.5 808 510	SE 29.5 17.1
Daily gain (g) Feed gain:	555 1.58	499 1.70	1.58	0.05

¹² replications/treatment. 3 pigs/replication

TABLE 2 Effect of feed flavour (pignector) on feed intake of young pigs fed CM-supplemented diets (12 to 20 kg)

CM(%) Flavour	0	0	8.5	8.5	17.0	17.0	SE
Feed/d (g) Growth/d (g) Feed:gain	864a	873a	819ab	843ab	763b	782b	29.5
	550a	560a	503ab	507ab	475b	483b	17.2
	1.59	21.56	1.61	1.64	1.61	1.61	0.05

12 pigs/treatment. a,b means with the same superscript or no superscript are not significantly different (P < 0.05).

BAIDOO, S.K., MITARU, B.N., AHERNE, F.X. and BLAIR R. (1987). Anim. Feed. Sci. Tech. 18:45.

^{*} Prior exposure to CM from 8 to 12 kg live weight