



Effect of Butirex-C4 in starter diets on calves on growth parameters

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BUTIREX C4 effect in starter diet of calves

Early development of rumen and papillae is needed to stimulate the feed intake and to increase growth. Butyrate has widespread effects on feed efficiency through proliferation, differentiation, and function of rumen papillae. The results evaluate the effects of feeding starter feed with Butirex C4, on the intake and body weight of calves in rearing, before and after weaning.



Method and Material

Research Farm of Cukurova University, Turkey.

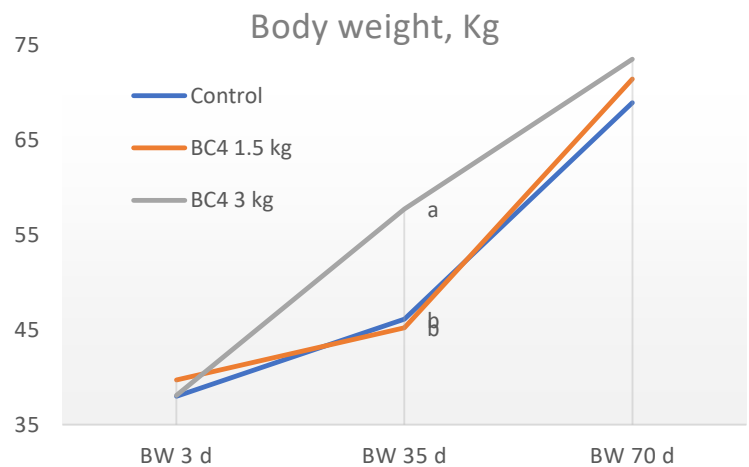
Twenty-three Holstein male calves 3 days of age were housed in individual pens, blocked considering birth weight and distribute to one of three treatments:

- Control starter diet (7 animals)
- 1.5 kg/ton Butirex C4 (8 animals)
- 3.0 kg/ton Butirex C4 (8 animals)

Calves were fed individually whole milk (4 l/d twice per day), and starter diets ad libitum from pre-weaning period. Weaning was done at the 35 days.

Results:

Feeding starter with Butirex C4 at 3 kg had greater (> 13%) body weight at weaning than low inclusion or control feeds (P< 0.05)



	Control	Butirex 1.5K g	Butirex 3.0 Kg
Starter feed intake in pre-weaning, kg/d	0.35	0.33	0.36
Mixed ration intake post-weaning, kg/d	0.89	0.94	0.84
Overall intake, kg/d	0.62	0.63	0.60
Weight gain in pre-weaning, kg/d	0.22a	0.21a	0.38b
Weight gain in post-weaning, kg/d	0.65	0.75	0.62
Overall weight gain, kg/d	0.43	0.47	0.50
a,b P < 0.05			

The starter diet containing Butirex 3 Kg improves the body weight at weaning (P<0,05), optimizing rumen development in the starter period.