

Inclusion effect of 2kg Butirex-C4 in sows last third gestation diet and lactation diet

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The aim of the study was an assessment of supplementation with Butirex C4. Butirex C4 is a protected source of butyrate with a specific role on intestinal health and villi development in animals, keeping also the feed intake stimulation.

Method and Material

A total of 20 sows from 80th day of gestation and during lactation, and their offspring were used to measure the effect of BUTIREX C4 on sows and on their offspring performance.

Treatments were Basal diet (BD) and BD + Butirex C4 (2 Kg/Tn).

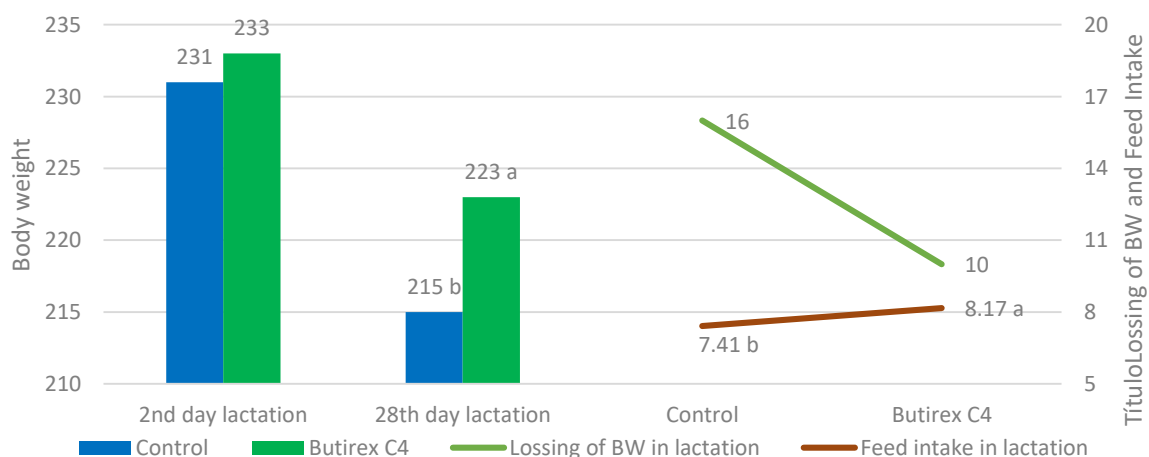
Piglets were fed with prestarter diet from 10th to 45th days and Starter diet from 46th to 75th days of life.

Performance results in sows

The use of Butirex C4 in lactation period stimulate the feed intake of the sows, increasing the milk production and reducing the body weight loss at weaning, healthy sows were obtained for the next reproduction cycle.

Higher feed intake resulted in higher milk production and body condition of shows and weight of piglets (p<0.05).

Body weight, losing of BW and feed intake of lactating shows, (kg)



Blood parameters

The levels of total globulins in blood of sows increased in animals fed with Butirex C4, it could improve the immunity of piglet's trough the sow milk. Higher level of glucose and significant low level of urea, may indicate a better efficiency in feed digestion

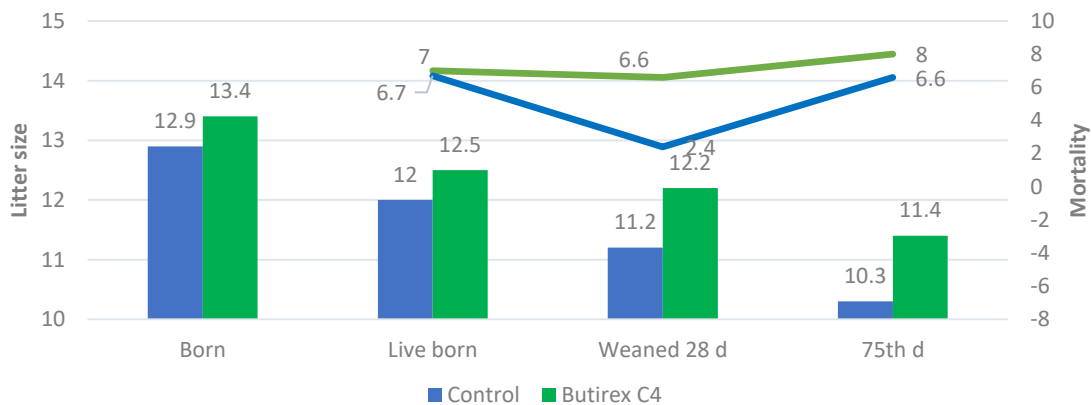
Blood parameters in lactating sows	Control	Butirex C4
Total protein g/l	49.20	54.20
Globulins (α, β, γ) g/l	20.60	25.70
Glucose mmol/l	4.20	5.30
Urea mmol/l	5.30 a	4.30 b

P<0.05 (a,b)

Viability and mortality of piglets

The supplementation with Butirex C4 improves piglet weight and survival.

Litter size (n°/sow) and mortality (%)



Performance results in piglets before weaning:

Health of piglets from sows fed with Butirex C4 was better during suckling period. Piglets obtained a significant better body weight (>7%); moreover, the animals per sow was higher.

	Control	Butirex C4
BW (2 d), kg	1.61	1.66
BW (28 d), kg	7.33 a	7.90 b
ADG (2-28 d), g	220	240

P<0.05 (a,b)

Performance results in piglets after weaning:

After weaning piglets from Butirex C4 showing a better performance on weight gain, the reason was the best weight and health at weaning, lower mortality, more feed intake, result in a better-feed conversion from 28-75 d.

	Control	Butirex C4
BW 45 nd d, kg	12.50 a	13.65 b
BW 75 nd d, kg	29.50 a	31.63 b
DFI 28-45 d, g	8.99	9.60
DFI 45-75 d, g	31.45	32.00
FC 28-45 d	1.74	1.67
FC 45-75 d	1.85	1.78

P<0.05 (a,b)

Conclusions:

The inclusion of Butirex C4 in sows, result in a better piglet quality, and their benefits are extended to their offspring in growing period.

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