



## Evaluation on litter parameters of sows fed Butirex-C4 in pre- and postpartum diets

SPAIN, 2011  
PREM13-POR-SOW-2

The aim of the study was measured the effect of Butirex C4 supplementation in sows under heat stress conditions from the end of gestation period and at the beginning of lactation; and the performance results in the offspring.



### Method and Material

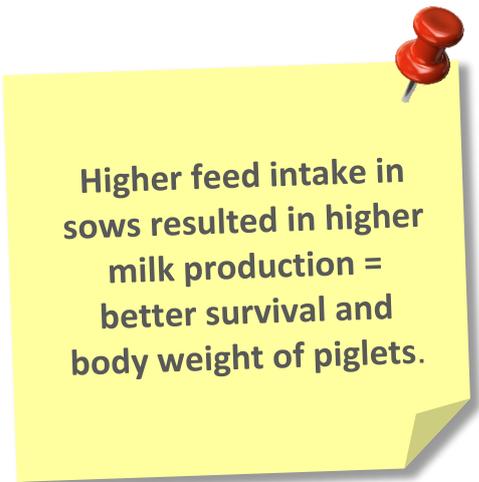
A total of 43 sows of average 3th gestation were used to measure the effect of Butirex C4. The trial was carried out in a commercial farm in the south of Spain in summer time with average temperature of 35°C.

Sows were divided in three Treatments using basal diet as Control group; from control group and on top of the feed the inclusion of Butirex C4 was as follow for second and third treatments:

Treatment 2: Last 2 weeks gestation feed + first 3 days of lactation feed with Butirex C4 at 3 kg/mt

Treatment 3: Last 2 weeks gestation feed + 1<sup>st</sup> week lactation feed with Butirex C4 at 3 kg/mt

Lactation period was until 21 days of age of piglets, parameters at farrowing like born alive, weight and survival in the first days were measure; at weaning time number of piglets, weight, mortality of piglets and sows feed intake and conversion were measured.



**Higher feed intake in sows resulted in higher milk production = better survival and body weight of piglets.**

### Performance results in sows

The use of Butirex C4 at the end of gestation (last 2 weeks) improve the results at farrowing compare with the control group.

#### Performance at farrowing in sows

	Control	Butirex C4 (2 wks gestation + 3 d lactation)	Butirex C4 (2 wks gestation + 1 wk lactation)
Litter weight, kg	12.35	13.56	13.44
Born alive, n°/sow	10.9	11.3	11.2
Survival at 5 d, n°/sow	9.9	10.8	10.6

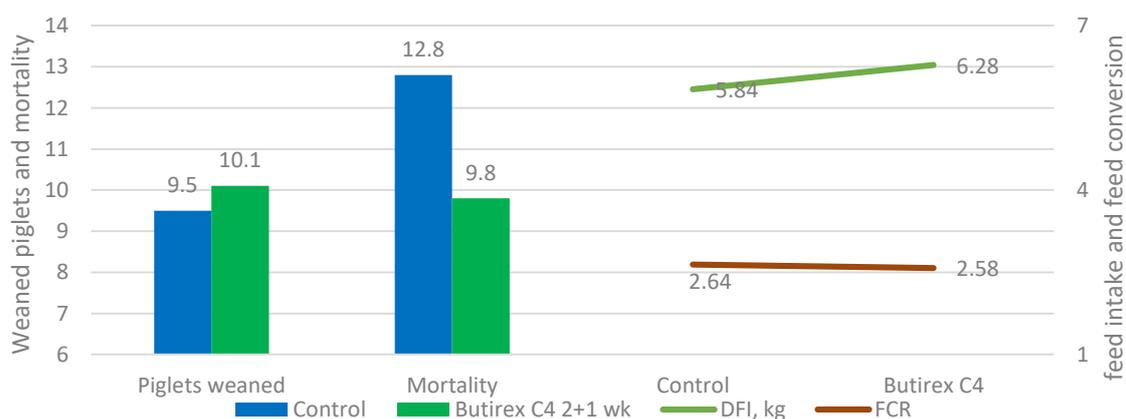
Inclusion of Butirex C4 at the end of gestation and in the first days of lactation has also positive impact in the performance at weaning. The higher feed intake in the sow (+6.3-7.5%), and the effect of Butirex C4 in the better digestibility, could increase the milk production that represent a better weight and health of piglets; reducing the mortality and improving daily weight gain.

At weaning, it was observe differences in the treatments with Butirex C4, longest use of Butirex C4 in lactation period (1 week vs 3 days), improves the results of piglets, and also the feed conversion of sows (-2.3%) considering the daily weight gain of litter. The use of Butirex C4 increase the viability of piglets and final weight at weaning (+200 g/piglet)

### Performance at weaning in piglets and sows

	Control	Butirex C4 (2 wk gestation + 3 d lactation)	Butirex C4 (2 wk gestation + 1 wk lactation)
Piglets weaned per sow	9.5	10	10.1
Litter weight at weaning, kg	58.9	63.0	64.6
Mortality in lactation, %	12.8	11.5	9.8
Daily weight gain of litter, kg	2.21	2.35	2.43
Daily feed intake of sows, kg	5.84	6.21	6.28
FCR (feed/piglet gain)	2.64	2.64	2.58

### Weaned (n°) and mortality (%) in piglets and daily feed intake (kg) and feed conversion in sows



### Conclusion

The inclusion of Butirex C4 in sows under heat stress condition, alleviate the negative impact, improving weaning performance results of piglets

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