



Carnitol-L®

Carnitol-L® supplementation during gestation increases the viability and growth of piglets

Trial description

1 Set-up

- The liver is responsible for various metabolic processes. Consequently, a good liver function is crucial for optimal production.
- Carnitol-L® is a liquid formulation combining L-carnitine, choline, plant extracts and sorbitol. It stimulates the liver function and optimizes energy production.
- Carnitol-L® was supplemented to a standard sow liquid feed during gestation to study its impact on technical performance of the piglets. The trial was performed in a highly productive sow herd.

Latest year productivity	
Number of sows	1180
Number of farrowings	53 per week
Weaned piglets/sow/year	37.6
Live born/litter	18.7
Stillborn/litter	2.2
Number of litters/sow/year	2.35

- The product was supplemented as 2,5 L Carnitol-L® daily in the liquid feed corresponding to:
 - 4 ml per sow per day 28 days prior to farrowing (4 kg feed)
 - 2 ml per sow per day 115-80 days prior to farrowing (2 kg feed)
- The dose of Carnitol-L® was 1 ml per kg dry feed (30 mg L-carnitine) per day.
- A batch was weighed prior to the supplementation (Control = 41 sows) and later batches were weighed at 4 weeks interval. The last weighed batch of sows farrowing (47 sows) had received Carnitol-L® supplement throughout the gestation.

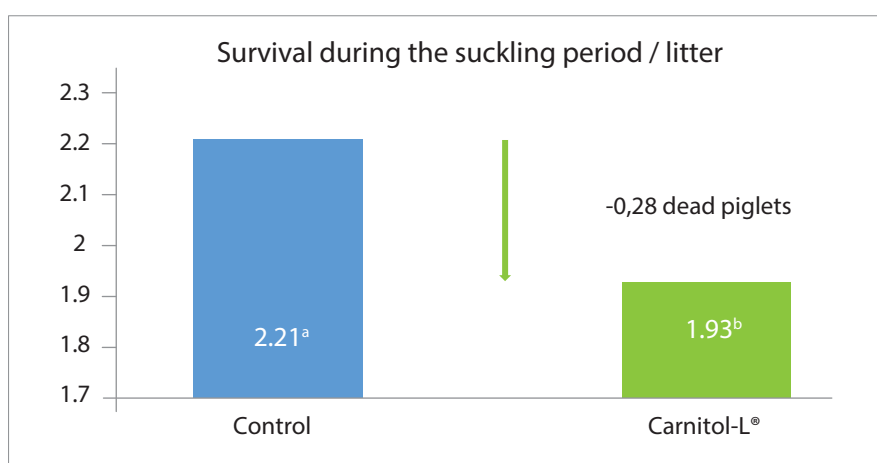
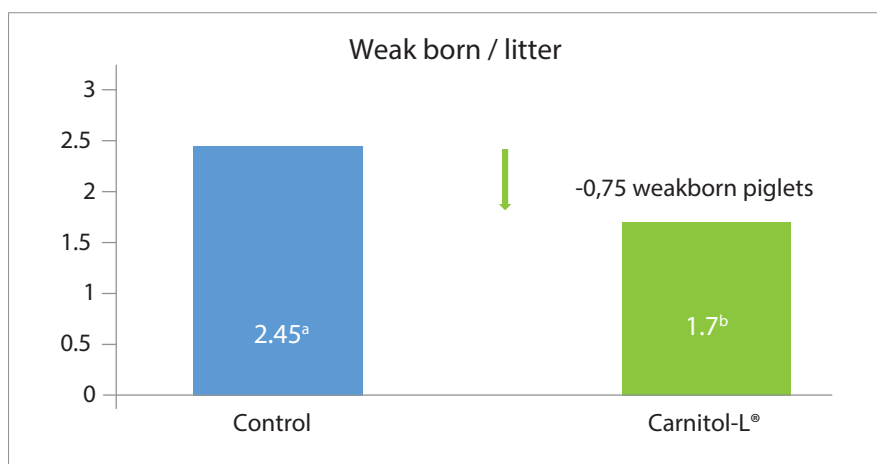
2 Measured parameters

Technical data at birth and during the suckling period of the piglets were investigated and compared for 20 weeks before and 20 weeks after the start of supplementation for all litters originating from sows farrowing during the respective week.

Results

	20 weeks before	Carnitol-L® 20 weeks	Difference	P-value
Live born / litter	18,69	18,86	0,17	0,34
Stillborn / litter	2,36	2,47	-0,11	0,36
Weak born / litter	2,45	1,70	-0,75	0,00001
Weaned / litter	16,10	16,26	0,16	0,62
Dead piglets / litter incl. fostersows	2,21	1,93	-0,28	0,007
Weaning weight per piglet kg	7,05	7,25	0,2	0,007

There are significantly less weak born piglets per litter and significantly less piglet mortality during the suckling period. The weaning weight per piglet increased by 0,2 kg during the 4 weeks suckling period.



Conclusion

Carnitol-L® supplementation during gestation results in a significant

- reduction of the number of weak born piglets
- lower mortality rate during the suckling period
- higher bodyweight at weaning