



CEFI® PRO



CEFI® PRO – NATURALLY FINE AND DELICATE IN WEANING FEED

For a successful pig breeding it is important to manage the critical phase of weaning and further rearing without any health impairment or stressful moment.

Nonetheless, it is also very important to manage the rearing in an economically feasible way. Both aspects can act opposing because the variable cost should be reduced and the welfare and health of the animals should be improved. Feed components have the possibility to support the piglet during development, but those components cost money and they reduce the profit. Ideally, it is possible to change from expensive feed components to cheaper ones without any negative change in the piglet health and welfare.

CeFi® PRO is a brewers' yeast autolysate, a "fermented" whole brewers' yeast, which is pre-digested because of the autolysate process. **CeFi® PRO** supports the ration with 50% protein and it contains nutrients, minerals and vitamins. In a conventional trial piggery, **CeFi® PRO** was tested in the weaning feed. To learn something about the effect of the **CeFi® PRO** it replaced a part of the blood plasma. In the control feed remained the usual 4.5% plasma (starter 1) and 1.8% plasma (starter 2) and in the trial feed only remained 2% plasma (starter 1) and 0.5% plasma (starter 2) and instead of the plasma each contained 0.5% **CeFi® PRO** (Feed composition, table 1).

Trial design

In a conventional housing 17 DANBRED x Pic408 piglets were kept per pen. The weighing of the animals and the calculation of the daily weight gain (DWG) and feed conversion ratio (FCR) is accounted via valve (2 pens = 1 valve = 34 piglets). In the trial and control group, each had 23 valves for the measurements of the DWG and FCR.

At the beginning of the trial, the average weight was 5.81kg in the trial group and 5.77kg in the control group. The piglets received usual in trade dry feed (Tab 1: Feed composition; Tab 2: Analytical constituents).



Table 1: Feed composition of trial starter 1 + 2; control starter 1 + 2

Control starter 1	Trial starter 1	Control starter 2	Trial starter 2
Wheat (toasted)	Barley	Barley	Barley
Barley	Wheat (toasted)	Wheat (toasted)	Wheat (toasted)
Corn (broken down)	Corn (broken down)	Corn (broken down)	Corn (broken down)
Soy bean (steam-heated)	Soy bean (steam-heated)	Wheat	Soy bean (steam-heated)
Plasma (4.5%)	Soy bean concentrate	Soy bean (steam-heated)	Soy bean concentrate
Whey powder	Whey powder	Soy groats	Soy groats
Dextrose	Plasma (2%)	Soy bean concentrate	Wheat
Soy bean concentrate	Dextrose	Wheat bran	Whey powder
Beet molasses chips	Beet molasses chips	Plasma (1.8%)	Wheat bran
Skim milk powder	Skim milk powder	Whey powder	Beet molasses chips
Wheat bran	Wheat bran	Beet molasses chips	Dextrose
Vegetable fat	Vegetable fat	Vegetable fat	Vegetable fat
Calcium carbonate	CeFi[®]pro (0.5%)	Calcium carbonate	Skim milk powder
Mono calcium phosphate	Calcium carbonate	Dextrose	Refined fatty acids
Sodium chloride	Mono calcium phosphate	Skim milk powder	CeFi[®]pro (0.5%)
Potato protein	Sodium chloride	Mono calcium phosphate	Mono calcium phosphate
Lecithin	Potato protein	Refined fatty acids	Sodium chloride
	Lecithin	Sodium chloride	Plasma (0.5%)
		Potato protein	Potato protein

Tab2: Analytical constituents (starter 1 + 2)

Analytical constituents*	Starter 1	Starter 2
Crude protein	17.5%	17.0%
Lysine	1.4%	1.3%
Methionine	0.45%	0.47%
Crude fat	5.8%	5.0%
Crude fibre	3.6%	3.5%
Crude ash	4.5%	4.5%
Calcium	0.65%	0.65%
Phosphorus	0.5%	0.48%
Sodium	0.25%	0.2%
Energy	14.60 MJ ME	13.80 MJ ME

* no difference between control and trial



Results

In the first and critical phase of weaning, **CeFi[®] PRO** supported the piglets very well. The feed conversion in

this phase could be improved despite less plasma in feed and the daily weight gain increased (figure 1).

Figure 1: FCR and DWG in starter 1 phase

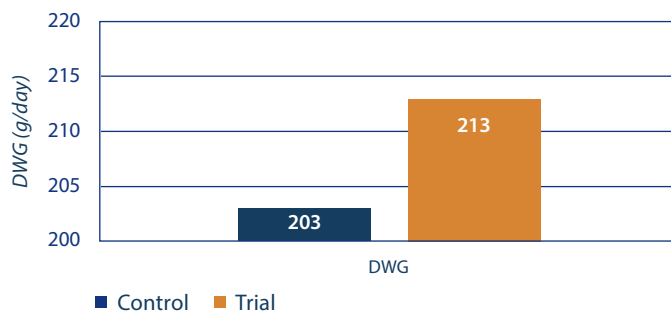
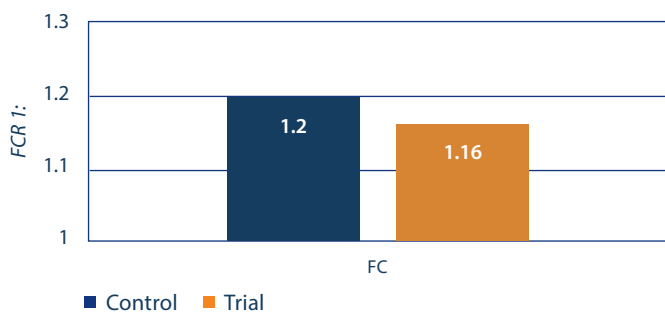


Figure 2: FCR and DWG in starter 2 phase

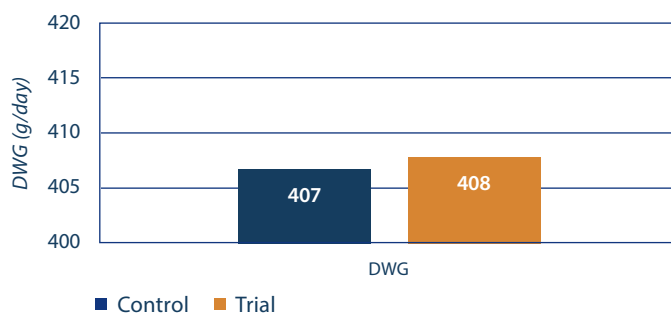
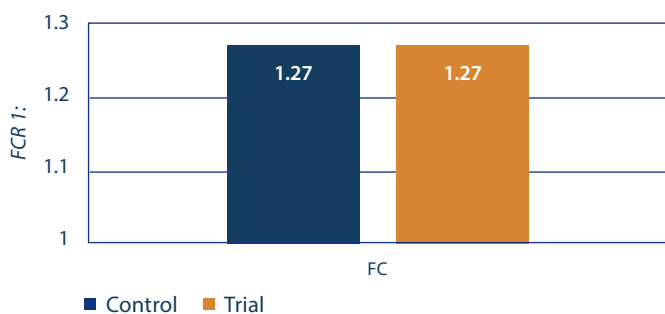




Table 3: Economic results

Feed	Quantity	Feed €/100kg	Total feed costs	Growth	€/100 kg growth
Starter 1 C	2,694kg	77.00€	2,074.38€		Control
Starter 2 C	5,72kg	47.30€	2,706.98€		
Top	17,709kg	31.30€	5,542.92€		
Control	26,125kg		10,324.28€	17,864.5kg	57.79€
Starter 1 T	2,647kg	71.70€	1,897.90€		Trial
Starter 2 T	5,746kg	49.80€	2,861.51€		
Top	17,609kg	31.30€	5,511.62€		
Trial	26,002kg		10,271.03€	17,915.5kg	57.33€

Result

CeFi[®] PRO can substitute a part of the plasma in starter 1 feed to create a more favourable cost efficient feed without any performance reduction. It can be shown that **CeFi[®] PRO** reduces the plasma need in the feed and a part of the variable costs can be reduced. In high-tense phases of rearing or if the health and welfare is reduced the brewers' yeast product can be supplemented in higher dosage without any problems of palatability.

Conclusion:

- | supports piglets during weaning phase
- | reduces feed costs
- | delicious feed component
- | can reduce plasma in defined parts



Reference: Commercial feeding trial, Lower Saxony Germany, 2020



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