

## Leiber YeaFi<sup>®</sup> BT for breeding sows: Effects on piglet performance



Brewers' yeast is known to have a beneficial effect on the fertility of breeding sows. In particular, it reduces the frequency of non-pregnant sows and improves the number of piglets. The present study was designed to provide information on the extent to which the health and performance of the piglets were effected even when the breeding wsows were fed with **Leiber YeaFi<sup>®</sup> BT**.

### Materials and methods:

**Test site:** From March to August, this feeding trial with breeding sows was carried out at a sow breeding facility in Wroniawy, southwest of Poznan, Poland. The facility had 2000 sows and a fattening unit. The trial was supervised and conducted by the Institute of Animal Nutrition and Feed Science in Wroclaw.

**Gestation feed:** After weaning, a total of 30 breeding sows were fed with the facility's standard soy-based gestation feed, which contained 4% fish meal (72% protein) and organic zinc. The feed of 15 sows was supplemented with 5% **Leiber YeaFi<sup>®</sup> BT** (test group). The ration contained 11.6 MJ ME, 13.4% crude protein, and 0.7% lysine.

**Lactation feed:** Starting on day 85, the animals received the facility's standard lactation feed, which had a similar composition and the same ingredients plus calcium formate. The feed of the test group was supplemented with 4% **Leiber YeaFi<sup>®</sup> BT**. The rations contained 13.0 MJ ME, 15.6% crude protein, and 1.0% lysine.

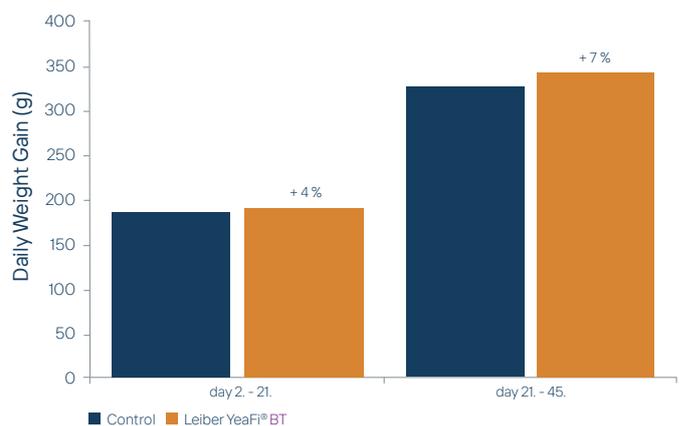
**Piglets feed:** Both groups of piglets were fed a commercial starter feed without brewers' yeast, containing a combination of organic acids, mycotoxin-binders and enzymes. The ration contained 14.3 MJ ME, 19.0% crude protein, and 1.54% lysine.

**Weaning:** The piglets were weaned at the age of 21 days and then followed a test period for another 3 weeks.

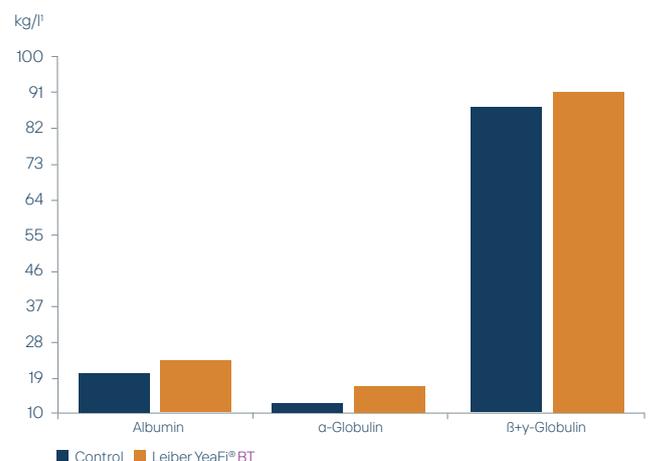


### Results:

**Fig. 1:** Effects of **Leiber YeaFi<sup>®</sup> BT** on Daily Weight Gain (DWG) during piglet rearing



**Fig. 2:** Effects of **Leiber YeaFi<sup>®</sup> BT** on immunity parameters in colostrum of breeding sows



**Table 1: Effect of Leiber YeaFi<sup>®</sup> BT on rearing and fertility parameters of breeding sows**

Treatment:	Control	Leiber YeaFi <sup>®</sup> BT
Number of litters	15	15
Number of piglets born alive	150	158
Number of piglets per litter	10.0	10.5
Living piglets on day 21	135	147
Living piglets on day 45	123	142
Mortality, farrowing to day 21 (pigs)	15	11
Mortality, farrowing to day 21 (%)	10.0	6.9
Losses, farrowing to day 45 (pigs)	27	16
Losses, farrowing to day 45 (%)	18	10,1
Return to oestrus at next mating (%)	23.3	13.3

**Table 2: Growth performance and feed conversion of rearing piglets born to breeding sows fed with Leiber YeaFi<sup>®</sup> BT**

Treatment:	Control	Leiber YeaFi <sup>®</sup> BT
Number of piglets	150	158
Starting weight at day 2 of life (kg)	1.85	1.77
Live weight on day 21 (kg)	5.55	5.63
Live weight on day 45 (kg)	13.3	14.0
Weight gain from day 21-45 (kg/pig)	7.8	8.3
Weight gain farrowing to day 45 (kg/pig)	11.4	12.2
Daily weight gain to day 21 (g)	195	203 (+4.1%)
Daily weight gain from day 21-45 (g)	323	347 (+7.4%)
Prestarter feed intake (g)	11.8	11.8
Feed conversion rate, day 21-45 (l:)	1.43	1.42

## Results:

**Leiber YeaFi<sup>®</sup> BT** improved the number of piglets born alive per litter by 0.5 piglets (5.3%) and the number of weaned piglets at day 21 by 9%.

The rate of return to oestrus after weaning decreased by 10 percentage points absolute (Table 1).

**Leiber YeaFi<sup>®</sup> BT** significantly increased the immunoglobulin content of colostrums (Fig. 2), indicating improved nourishment and immune defence of the sows. Tendentially during lactation, similar improvements were observed.

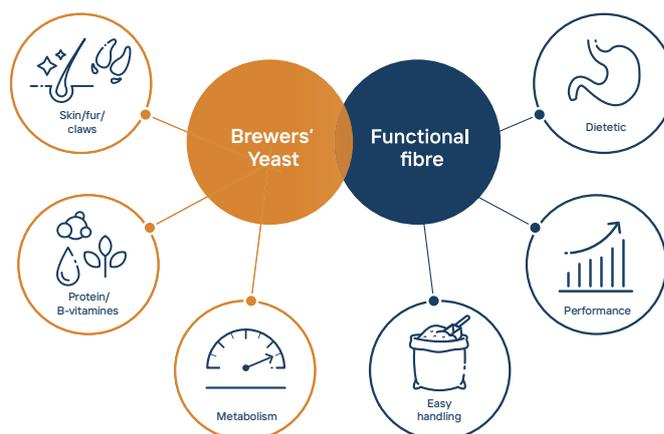
**Leiber YeaFi<sup>®</sup> BT** increased weight gain and daily weight gain by 4% at weaning and 7.4% at end of trial (Fig. 1).

**Leiber YeaFi<sup>®</sup> BT** reduced losses by roughly 40%.

## Conclusions Leiber YeaFi<sup>®</sup> BT:

- | Positive effect on the fertility performance of breeding sows.
- | Improved immunity status of the breeding sow is transferred to the piglets.
- | Increased vitality of the sow results in an increased weight gain of the piglets.
- | Reduced losses of piglets.

## Leiber YeaFi<sup>®</sup> product features:



Reference : PROF. FUCHS, INSTITUTE OF ANIMAL NUTRITION, WROCLAW



We have been upcycling at world-market level since 1954 and keeping the environment and climate in mind.