

# Biolex MB40



## Improved performance in piglet-rearing thanks to Biolex® MB40

Successful piglet-rearing is essential if a pig-fattening and finishing business is to be profitable. It is during the crucial rearer stage in particular that the gastro-intestinal tract matures and the gut-associated immune system (GALT) develops. More than half of all pig diseases originate in the gut. The development and maintenance of a healthy, balanced and thus also disease-resistant gut flora (eubiosis) is thus essential. Thanks to the prebiotic effect of the cell walls of brewers' yeast (mannanoglycosaccharides), **Biolex® MB40** promotes the development and maintenance of a balanced gut flora and stimulates intestinal cell differentiation. The experiment described here sought to investigate the influence of a dietary supplement consisting of **Biolex® MB40** on piglet performance.

### Materials and Methods:

The experiment was carried out from January to April. There were 10 litters available for both the experimental and the control group. From the 10th to the 37th day of life, the piglets were given a pre-starter. From the 38th to the 74th day of life they were fed a piglet feed (see Table 1). In the case of the experimental group, 0.2% **Biolex® MB40** was added to both the pre-starter and the starter diet. The piglets were weaned on the 28th day of life.

### Results:

#### Higher weight gain

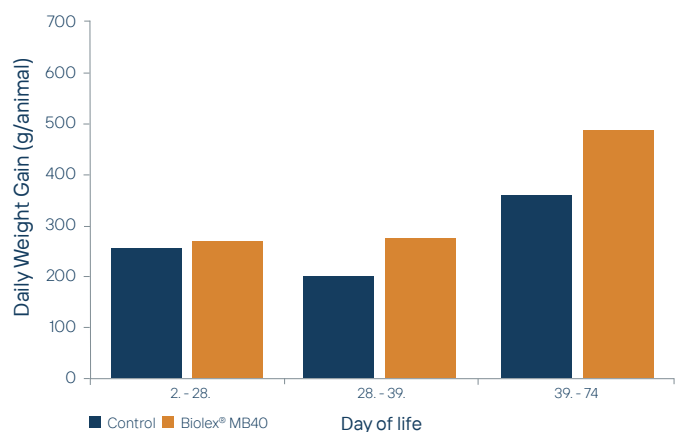
At the beginning of the experiment there were 102 piglets in the control group and 104 piglets in the experimental group. In both groups the piglets had a body mass of 1.6 kg on the second day of life. As shown in Figure 1, there were no significant differences in the Daily Weight Gain during the suckling period. After weaning and until the end of the experiment, the **Biolex® MB40** supplement did however lead to significantly higher daily gains.

#### Improved feed conversion

Feed conversion in the second phase of piglet rearing could also be improved significantly by feeding **Biolex® MB40** as a supplement (see Figure 2). There was no difference in feed intake between the two groups. A significant improvement in piglet performance could thus be attributed to the more efficient feed conversion.

Table 1: Composition of feed (in %)		
	Pre-starter	Starter
Wheat	67.0	45.0
Barley	-	32.0
Plasma 70	5.0	-
Fish meal 60	6.0	4.0
Whey powder	10.0	-
High-protein soya	5.0	3.0
Soya meal 46	-	3.0
Soya oil	3.0	-
Soya oil	-	2.0
Supplements	-	3.0
Min. + amino acids	3.8	3.9
Premix	-	1.0
Crude protein	19.6	17.5
Lysine	1.6	1.3
Methionine	5.8	5.1
ME (pigs) MJ	14.1	13.0

Fig. 1: Influence of **Biolex® MB40** on Daily Weight Gain of piglets



## Better faeces consistency

On day 30 (just after weaning), the faeces consistency of the **Biolex® MB40**-fed experimental group was considerably better than that of the control group. Table 2 shows the influence of **Biolex® MB40** on excrement quality.

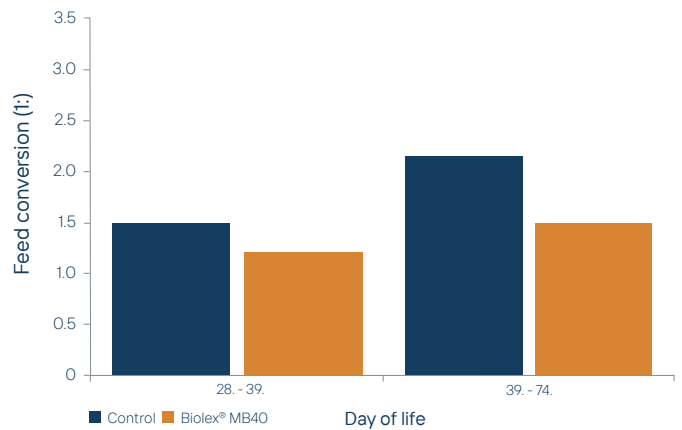
### Discussion:

The results allow us to conclude that the feeding of **Biolex® MB40** meant that the piglets' intestines were considerably better prepared for the change of diet from milk to solid food. This can be attributed to the positive prebiotic effects of brewer's yeast cell walls on the development of the intestinal mucosa and on eubiosis in the gut. The results also show how important a good start is in the rearing of piglets. If the development of the gut is not optimized at this early stage, it will have a significant negative impact on the animal's fattening and finishing performance later.

### Biolex® MB40:

- | Increases Daily weight gain
- | Improves Feed conversion
- | Positively influences Faeces Consistency

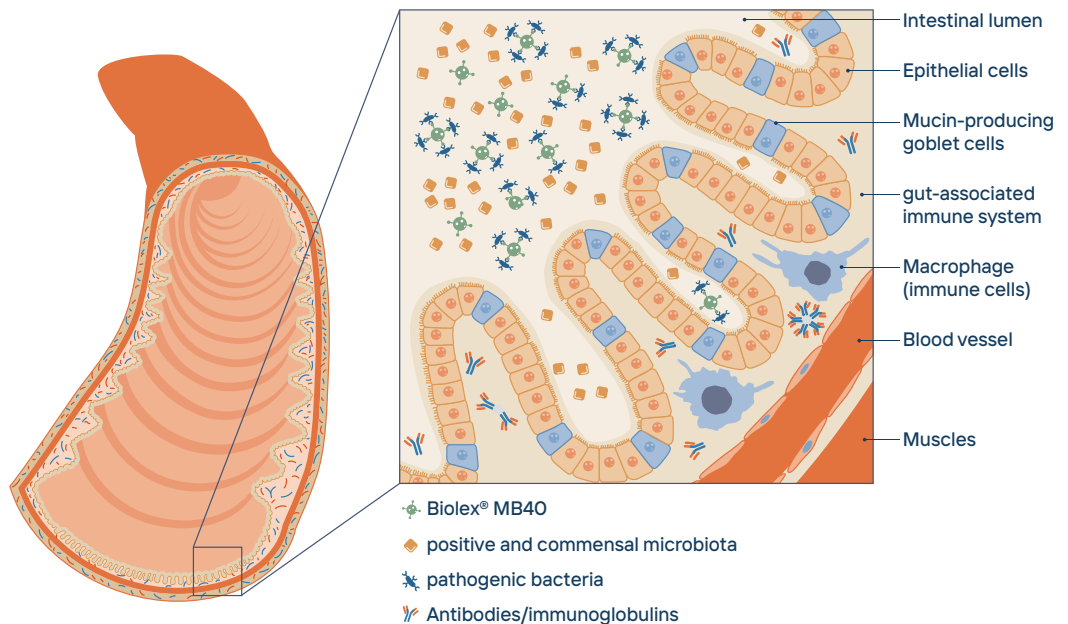
Fig. 2: Influence of Biolex® MB40 on feed conversion



	Control	Biolex® MB40
30 <sup>th</sup> Day of life	4.0	3.0
50 <sup>th</sup> Day of life	3.6	2.0

\*Scale from 1 to 5; 1 = extremely firm excrement; 5 = liquid excrement

### Mode of mechanisms of action Biolex® MB40:



Reference: Internal study, Prof. B. Fuchs, Institute of Animal Nutrition, Breslau



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