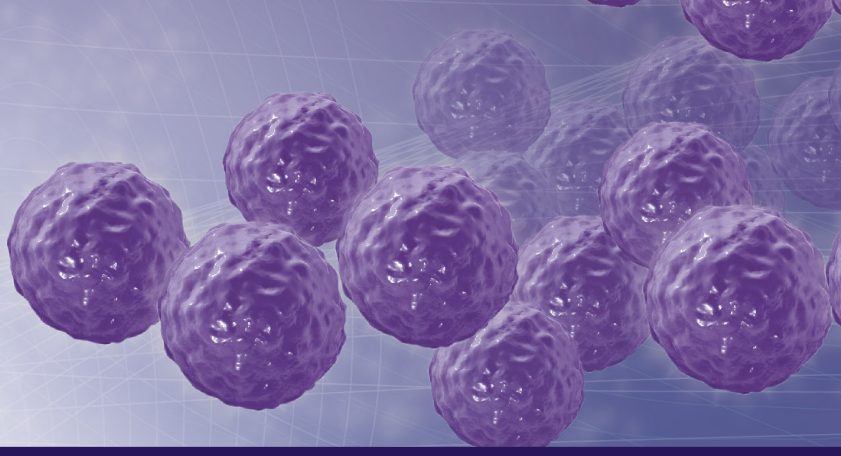


MAXLAC

WELL-PROVEN GUT FLORA STABILIZER

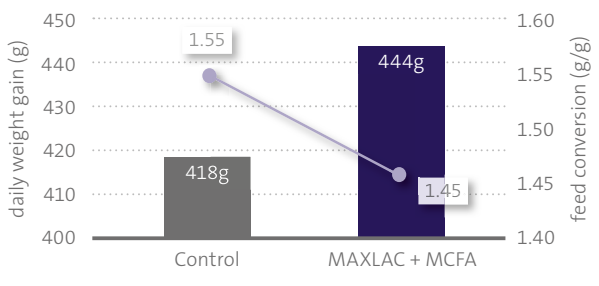
MAXLAC products are composed of probiotic feed additives from the lactic acid bacteria (LAB) group. The strains are healthy and natural, tested for safety and efficacy, GMO free and certified for organic farming in the EU. They support high zootechnical performance in livestock nutrition and show several nutritional advantages in the diets of monogastric animals.

PROBIOTICS FOR PRODUCTIVITY

Dietary probiotic supplementation has become increasingly important in recent years due to a steady reduction in antibiotic usage. The major commercially available probiotic products for animal nutrition include lactic acid bacteria, spore-forming organisms and yeast strains. A healthy intestinal tract is crucial for superior performance in today's monogastrics and ruminants because their productivity demands require high levels of feed intake and feed efficiency.

Probiotic bacterial cultures are key elements of feeding concepts in livestock and poultry production as they have a regulatory and stabilizing function in the intestines. Their main effect is to stimulate desirable bacteria in the intestinal flora and to protect the intestine from unwanted microorganisms. Since it is commonly known that the microbiota is strongly related to the immune status of the gut, it may be concluded that probiotics give rise to a healthy immune system and optimum animal performance.

F1: Effect of combining MAXLAC and MCFA in piglet diets.
Trial Setup: n = 140, 6 weeks, 2-phase feeding



Source: Mohana and Kim, 2014

MAXLAC

- Forms a biological protective lining in the digestive tract
- Supports healthy formation of gut flora
- Inhibits unwanted microorganisms
- Improves performance measures

A MULTI-PRONGED STRATEGY

Supplementing with lactic acid bacteria helps deliver improved animal performance, and there are synergistic effects when **MAXLAC** products are combined with other products from our portfolio. For example, combining probiotics and acids has been shown to provide benefits in broiler chicken and pig nutrition. Figure 1 shows improvement in feed conversion and daily gain of weanling piglets when their diets were supplemented with **MAXLAC** and medium-chain fatty acids (MCFA) from the MAXACID product range.

In conclusion, dietary MCFA and probiotic supplementation in weanling pigs are efficacious alternatives to antibiotics to improve health status and performance.

PERFECT COMPONENTS. MAXIMUM RESULTS.

MAXLAC

THE PROBIOTIC SOLUTION

MICRO-ENCAPSULATED AND PROVEN

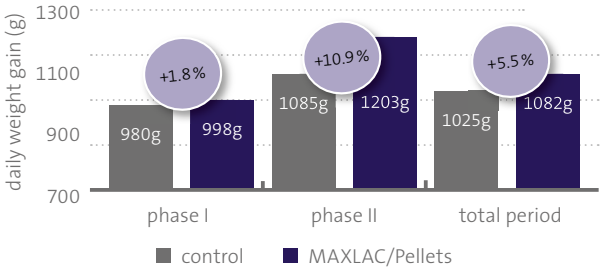
MAXLAC/PELLETS is used in sow and piglet feeding, and pig and poultry finishing. Many trials and research studies demonstrate the positive effects of this probiotic feed additive, including improved piglet livability and increased pre-starter intake per piglet, and improved body condition in sows.

In addition, supplementing **MAXLAC/PELLETS** increases daily weight gains in piglets and improves their vitality. In poultry, it has been shown to provide a significant increase in live weight gain.

MAXLAC/Pellets

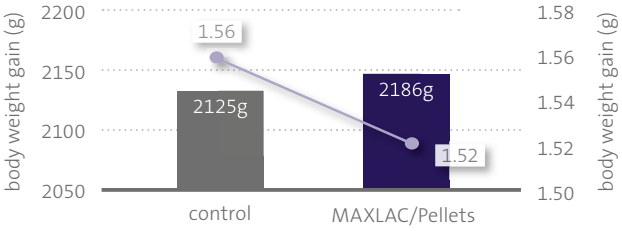
- LAB: *Enterococcus faecium* (DSM 7134)
- Activity: at least 1x10^{10} CFU/g additive
- Micro-encapsulated for increased heat stability
- For premixes and compound feed

F2: Increased daily live weight gain in grow/finish pigs
Trial Setup: n = 144, 77-day trial, 2-phase feeding



Source: CAU Kiel, 2014

F3: Effect on body weight gain and feed conversion
Trial Setup: n = 120, Cobb 500, 35-day trial



Source: FU Berlin, 2014

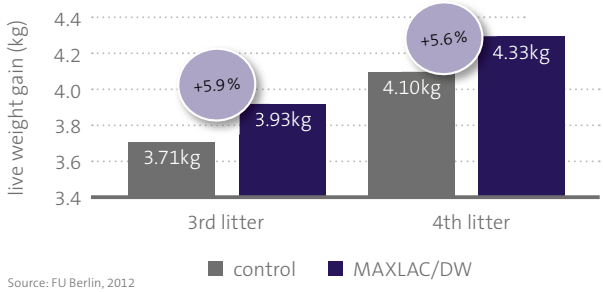
MAXLAC/DW THE PROBIOTIC FOR DRINKING WATER

MAXLAC/DW is a highly soluble powder that can be administered via drinking water, and it is primarily used for poultry and pigs. It contains the highly effective lactic acid bacteria strain *Enterococcus faecium* (DSM 7134), which stabilizes the intestinal flora and improves the performance of the host animals. In pig and poultry feeding it has been shown to significantly increase daily weight gains.

MAXLAC/DW

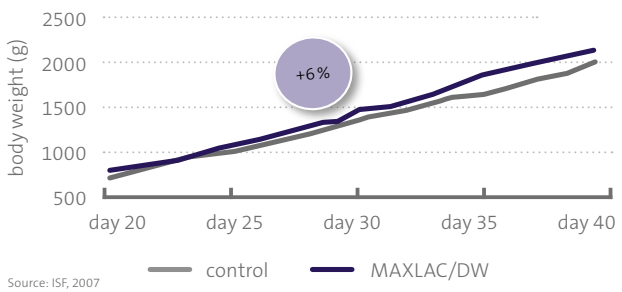
- Highly soluble powder, specifically designed for application via drinking water
- LAB: *Enterococcus faecium* (DSM 7134)
- Activity: at least 1x10^{10} CFU/g additive

F4 : Effect on litter weight gain in sow feeding
Trial Setup: n = 75, 2 reproductive cycles, 21-days suckling



Source: FU Berlin, 2012

F5: Influence on body weight in broiler chickens
Trial Setup: n = 17,000, Cobb, 37-day field trial



Source: ISF, 2007

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