

Unleash your Pigs' Potential



dsm-firmenich



Modern pig production is changing rapidly. The need for precision macro- and micro-nutrition has never been more important.

- Genetic improvements have given rise to changing nutritional requirements
- Environmental concerns are prompting changes in the feed ingredients used, resulting in lower density diets
- Animal health and welfare considerations are accelerating the implementation of preventative health strategies, reduced antibiotic usage and increased vaccinations

Genetic improvements

Environmental concerns

Health and welfare considerations

Modern pig
production

Adaptive nutrition approach to optimizing nutrient allocation and metabolism in modern highly efficient fattening pigs

Modern fatteners retain more nitrogen and protein as muscle, altering their nutritional needs. In the internal competition for nutrients, muscle deposition is prioritised over immune competency and bone health. Adjustments in feed, including amino acids like SID lysine and net energy (NE), must match local practices and market demands. Vitamin B and D levels, along with digestible phosphorus, may also require changes to support highly efficient fattening swine aiming for feed conversion ratios around 2.2-2.3 and daily weight gains up to 1000 g.

Immune competency

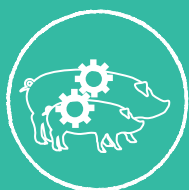


With antibiotic use decreasing, there is a greater risk of increased incidence of clinical and sub-clinical disease & metabolic challenges. The swine production industry is moving more towards a preventative approach to health as seen through the increased use of vaccines. However, vaccine efficacy is dependent on having a robust and optimum functioning immune system. Monitoring key indicators related to health and immune robustness are even more important than ever.

Use **Verax™ DBS Analytics** – objective farm-level assessments for informed decision making.

Use **Hy-D®** to reduce inflammation, enhance performance and improve immune competency supporting health and welfare.

Pig efficiency



Genetic selection for leaner, faster growing pigs means that careful nutritional management is required for both macro- and micro-nutrients. Dietary SID lysine, NE, amino acids alongside considerations for vitamin B and D and digestible phosphorus should all be reviewed and adapted. Phosphorus plays a vital role for muscle accretion and research underscores the significance of vitamin D3 in muscle metabolism.

Use **Verax™ DBS Analytics** to manage vitamin D₃ status for optimum growth.

Use **MaxiFicient™ Boost GF** to promote growth and efficiency.

Skeletal health



Increased protein deposition for lean muscle might pose challenges causing problems with bone development due to nutrient competition among these tissues unless precise and tailored nutrition solutions are used. The right balance of nutrient, specially sulphur amino acids, phosphorus, vitamin D and trace elements, is crucial for optimum metabolism and skeletal health.

Use **Verax™ DBS Analytics** to monitor skeletal health, lameness and other bone challenges.

Use **Hy-D®** to improve bone development and ash content and increase bone strength.

Use dsm-firmenich's range of precise and tailormade nutrition solutions for fattening pigs to optimum bone health, immune competence and growth efficiency.



Hy-D® – is a unique solution that supports immune competency, and skeletal health. The main benefits of Hy-D® come from its better bioavailability compared to classic vitamin D sources. Elevated 25-OH-D3 blood levels achieved with Hy-D® improves fattening pigs immune competency and bone health leading to:

- Decreased signs of swine inflammation and necrosis syndrome (SINS)
- Improve bone strength and reduce lameness
- Improves calcium digestibility, allowing for decreased calcium levels in diets without compromising bone strength

Verax™ DBS Analytics – understand and manage vitamin D₃ status of your herd with our easy-to-use, fast, on-farm service that delivers insights and recommendations to optimize the immunity, bone health and efficiency of your fattening pigs.

- Accurate determination of 25-OH vitamin D₃ status of animals from a couple of drops of blood
- Recommendations on target 25-OH-D3 blood levels to support optimum bone & joint health, immunity, and muscle deposition
- Expert advise & support from our animal experts to help you achieve your goals
- Easy-to-use, fast process from kit ordering to receiving recommendations via our online application

MaxiFicient™ Boost GF – a new, innovative, functional solution specifically developed to support the efficiency of fattener pigs without compromising health and welfare.

- Enhanced nutritional support for lean muscle gain
- Supported body weight growth and FCR
- Increased profitability

**Unleash
the full
potential of
your herd.**



We bring progress to life



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