



> MODULE 2 | NUTRIENT EVALUATION SWINE

TUESDAY 14 JUNE

Energy and amino acids are the two most expensive components in a swine diet. A good understanding of the nutritional needs of the animals is required to produce cost efficient diets. Therefore, knowledge about nutrient evaluation systems is key.

Learning objective

- To obtain knowhow on energy and protein evaluation to improve nutrient utilization and therefore feed efficiency and carcass quality.
- To obtain knowhow on how to evaluate the different fibre ingredients and what nutrients can be used when formulating diets.

Welcome and introduction

2.1 Differences and use of AID and SID amino acids

Amino acids are important in swine diet formulations, but different digestibility coefficients are used. What is the added value of diet optimization based on digestible amino acids and the ideal amino acid profile, as well as what are the effects of diet composition on protein digestibility and amino acid utilization.

2.2 Energy evaluation in swine nutrition

Energy is an expensive component in a swine diet. Therefore understanding the impact of energy and utilization in pigs is of interest to formulate diets that fulfil the requirements of the pigs. In this presentation a theoretical overview of the net energy system in swine will be discussed as well as a practical implementation of this energy system. What is the added value of diet optimization based on net energy (NE)?

2.3 How to evaluate fibre in swine diets

Fibre by-products are more and more available to be used in swine diets. Therefore having an understanding on how to evaluate the different fibre ingredients and what nutrients can be used when formulating diets is very important. Based on SFR experience we have seen that fibre ingredients should be evaluated from a functional point of view and not (only) from an analytical point of view. Therefore, the objective of this presentation is to match fibre evaluation with the different physiological stages (piglets, growing pigs, gestation and lactating sows).

Trainers: Marco de Mik, Francesc Molist

Remarks:

- Please be aware that SFR recommendations will not be presented during the course.
- For more knowledge on nutritional strategies it is recommended to (also) attend module 3,4 and 5 Applied Swine Nutrition.