

FEEDS AND NUTRITION COURSE 2019

ZAANDAM | THE NETHERLANDS | JUNE 3 - 7, 2019

'The course is specially designed for animal nutrition specialists'

MODULE 11 | NUTRIENT EVALUATION SWINE

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.

TUESDAY JUNE 4

11.1 Welcome and introduction

11.2 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.

11.3 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)?

11.4 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: Kristina Simon, Marco de Mik and Francesc Molist

Remarks: please turn over.



Remarks:

- Please be aware that SFR recommendations will not be presented during the course.
- This module will not focus on basic nutrition, like physiology of the intestinal tract and characteristics and digestion of different nutrients. In case required, it is advised to attend module 7 Principles of Monogastric Nutrition instead of the module Nutrient evaluation swine.
- For more knowledge on nutritional strategies it is recommended to (also) attend module 12 Applied Swine Nutrition.
- To be able to apply the information from this module into feed formulation, it is advised to attend module 13 Practical Feed Formulation Swine.

