



In Vivo and in Vitro Studies with Growing Pigs on Standardised Ileal Amino Acid Digestibilities in Grain Legumes

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Cuvillier Verlag Dez 2009, 2009. Taschenbuch. Book Condition: Neu. 211x147x22 mm. Neuware - Since there is a general ban on meat and bone meal and its by-products in diets for livestock in the EU, it is crucial to focus on alternative protein feed ingredients to be used in pig nutrition. Beside soybean meal as a commonly used plant protein supplement, grain legumes may also be used as alternative protein sources in diets for pigs. Current protein evaluation system for feed ingredients for pigs are based on the concept of standardised ileal digestibilities (SID) of crude protein (CP) and amino acids (AA), but there is a scarcity of information on SID of CP and AA in grain legumes grown in Central Europe. Therefore, the objective of the thesis was to determine the chemical composition and the SID of CP and AA in seed-grade cultivars of faba beans (*Vicia faba*), peas (*Pisum sativum*) and lupins (*Lupinus spp.*) in growing pigs using the difference method. Furthermore, to obtain SID of CP and AA, the basal ileal endogenous CP and AA losses in growing pigs were estimated by means of regression analysis from apparent ileal digestible and total dietary contents of CP and AA....



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