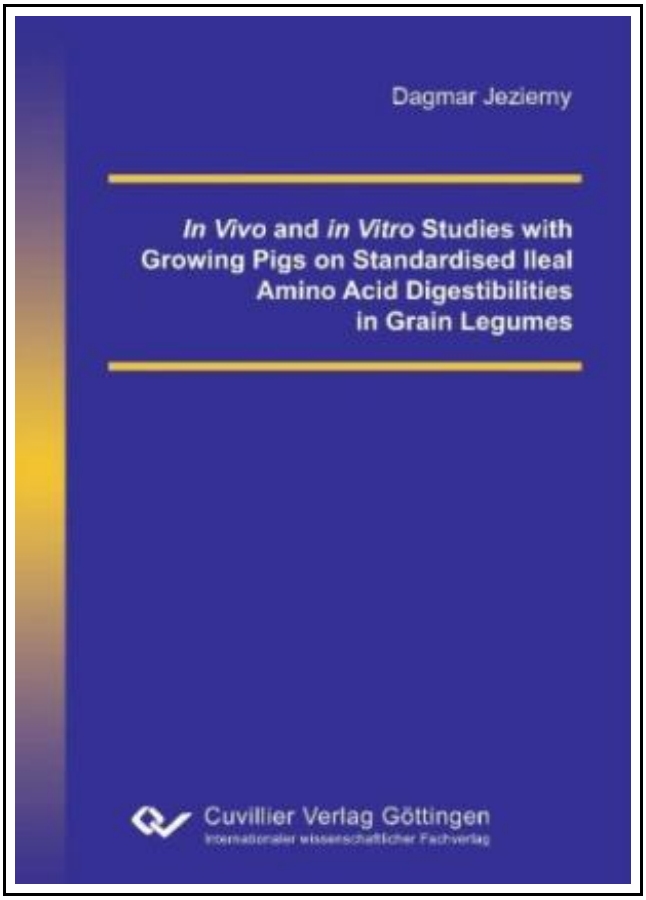
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Cuvillier Verlag Dez 2009, 2009. Taschenbuch. Book Condition: Neu. 211x147x22 mm. Neuware - Since there is a general ban on meat and bone meal and its by-products in diets for livestock in the EU, it is crucial to focus on alternative protein feed 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. A further aim of the thesis was directed to the validation of an in vitro procedure for estimates of SID of CP and AA in the same grain legumes by means of a two-step enzymatic method with subsequent pepsin and pancreatin incubations. The in vitro predicted SID values were compared with their corresponding in vivo SID values. The chemical composition and SID values of CP and AA measured in faba bean, pea and lupin cultivars generally were in good agreement with tabulated values. The average SID of CP and most AA in lupin cultivars (CP, 87%) were higher than in...

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