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PERTTILÄ, SINI, SILJANDER-RASI, HILKKA, PARTANEN, KIRSI, ALAVIUHKOLA, TIMO, SUOMI, KAIJA, VALAJA, JARMO, Apparent ileal amino acid digestibility and the nutritive value of the triticale cultivars Moreno and Ulrika for finishing pigs

Keywords pigs, amino acids, cereals, triticale, digestibility, performance,

## Abstract

Both digestibility and performance experiments were carried out to evaluate the nutritive value of triticale for growing-finish experiment 1, the apparent ileal and faecal digestibility of nutrients in barley (Hordeum vulgare cv.Viivi) and two triticale (Tocultivars, Moreno and Ulrika, were measured using six cannulated barrows with a body weight (BW) of 82-107 kg. In experiment 2, 13 used over 25-100 kg BW to study the effects of replacing barley in a barley-soyabean meal-based diet with graded amounts of trick cv. Moreno (25,50,75, or 100%) and cv. Ulrika (50 or 100%). The apparent ileal and faecal digestibilities of dry matter and organic higher for both triticale cultivars than for barley (P <0.05). The apparent ileal digestibilities of protein and amino acids we barley and the triticales (P >0.05). The apparent ileal digestibility of lysine averaged 65.6, 70.8, and 70.5% for barley and to cv. Moreno and Ulrika, respectively. The net energy content of triticales (11.5 MJ kg-1 DM) was 0.4 MJ kg -1 DM higher than that or replacement of barley with the triticale cultivars Moreno and Ulrika exerted a positive quadratic effect on daily weight gain a conversion ratio of pigs from 50 to 100 kg and from 25 to 100 kg BW (P <0.01). The best performance of the pigs was observed who barley was replaced with cv. Moreno or 50% with cv. Ulrika. Carcass lean percentage decreased linearly with increasing amounts of <0.01) and decreased quadratically with increasing amounts of cv. Ulrika in the diet (P <0.05). Therefore, we concluded that 50-75 be replaced by triticale in diets for growing-finishing pigs.

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[Full text] (PDF 66 kt)

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