

Digestibility and nutritive value of husked and hull-less barley supplemented with or without carbohydrases in feeding pigs

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The experiment was carried out on 24 fattening pigs, and digestibility of four diets was examined: JO (husked barley), JOE (husked barley + enzyme), JN (hull-less barley), JNE (hull-less barley + enzyme). The diets were supplemented with minerals. Digestibility coefficients were estimated by means of the indicator method with 0.4% of CraCh used as the indicator. The enzymatic preparation, containing P-glucanase, hemicellulase and pectinase, increased slightly ($P>0.05$) digestibility of dry matter, total protein and nitrogen-free extracts, both in husked and hull-less barley. Moreover, almost double increase ($P\leq 0.05$) in digestibility of crude fibre was found in case of husked barley. Better digestion of the grain nutrients supplemented with the enzyme increased the metabolizable energy in 1 kg of the husked barley by 0.17 MJ ME and that of hull-less barley by 0.48 MJ ME. The significant difference in energy value of the hull-less barley containing tested enzyme, in comparison with the husked barley without or with the enzyme, was proved. It can be concluded that the hull-less barley should be recommended in pig feeding, especially when supplemented with the examined enzymatic preparation.