

CONSTRUINDO SABERES, FORMANDO PESSOAS E TRANSFORMANDO A PRODUÇÃO ANIMAL

## ENERGY VALUES OF CORN AND SORGHUM DDGS FOR PIGS

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Nutritional values of corn and sorghum distillers dried grains with solubles (DDGS) to be used in pig feed are not referenced in the Brazilian literature, being therefore of great importance studies that determine the energy values of these ingredients. Eight genetically homogenous barrows with  $26.1 \pm 3.4$  kg, were distributed individually into metabolic cages in a digestibility assay with total feces and urine collection. Was used a corn DDGS produced in an industry of Mato Grosso state. The treatments were composed by reference diet (RD) based on corn and soybean meal; RD with 20% corn DDGS (CDD 20); RD with 40% corn DDGS (CDD 40); RD with 20% sorghum DDGS (SDD 20); RD with 40% sorghum DDGS (SDD 40). Were determined the gross (GE), digestible (DE) and metabolizable (ME) energy of corn and sorghum DDGS. There was no interaction effect between the source and i level of inclusion for the variables under study. The level of 20% inclusion of DDGS presented higher values of digestibility and metabolizable coefficients compared to those with 40%, however, ED and ME were not influenced by the inclusion levels of this ingredient. The GE values of corn and sorghum DDGS were 4,949 and 4,345 kcal kg<sup>-1</sup>, respectively. The DE and ME values of corn DDGS were 3,477 and 3,277 kcal kg<sup>-1</sup> and 3,761 and 3,609 kcal kg<sup>-1</sup> as determined by CDD 20 and CDD 40, respectively. The DE and ME values of sorghum DDGS were 3,030 and 2,863 kcal kg<sup>-1</sup> and 3,398 and 3,296 kcal kg<sup>-1</sup> as determined by SDD 20 and SDD 40, respectively. The GE of corn DDGS produced in Brazil evaluated in this study was lower than the average values reported by some literatures. The DE and ME values determined for corn DDGS were higher than those of sorghum DDGS.

**Keywords:** corn ethanol, digestibility, distillers grains, metabolizability

Promoção e Realização:



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