

## FATTY ACID PROFILE OF GOAT MEAT FED WITH DIFFERENT CONCENTRATIONS OF WHEAT MIDLINGS.

Dias, A. M. A.<sup>1</sup>; Batista, A. M. V.<sup>1</sup>; M.M.D.Maia<sup>2</sup>

<sup>1</sup>Departamento de Zootecnia/UFRPE <sup>2</sup>Departamento de Biologia-Genética/UFRPE

The knowledge of the fatty acids (FA) composition from meats is important to the balance of the dietary to have in view the consumer health. The objective of this research was to evaluate the effect of crescent levels of wheat middlings as a replacement for corn meal in the diets on the composition of FA of haunch of goat. Crescent levels of wheat middlings were used in the concentrate (0; 8.9; 9.8; 31.7%) as a replacement for corn meal, for the treatment 1, 2, 3 and 4, respectively. Sixteen haunch (four per treatment) were desiccated and the muscles grinded to obtain the samples to analysis. After extraction, the methyl esters of FA were analyzed by Gas Chromatography allowing separation of FA according to their carbon number and degree of unsaturation. The following profile of FA was observed: oleic acid (31.71%), palmitic acid (30.94%), lauric acid (7.31%), linoleic acid (5.04%). The ratio polyunsaturated / saturated FA did not alter significantly ( $P>0.05$ ). The contents of FA were not influenced by wheat middlings levels in diets of goats then wheat middlings could be a substitute of corn meal in diets of these animals.

**Key words:** Gas Chromatography, fatty acid, goat, wheat middlings.

**Supported by:** Bunge Alimentos, UFPE