ZOOTECNIA BRASIL
Centro de Convenções da PUC-GO | Goiânia-GO
27 a 30 de agosto de 2018

55ª REUNIÃO ANUAL DA SOCIEDADE BRASILEIRA DE ZOOTECNIA

ZOOTEC 28º CONGRESSO BRASILEIRO DE ZOOTECNIA

CONSTRUINDO SABERES, FORMANDO PESSOAS E TRANSFORMANDO A PRODUÇÃO ANIMAL

QUANTITATIVE CARCASS CHARACTERISTICS OF MALE AND FEMALE BOER + SAANEN GOAT USING INULIN IN THE DIET

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Inulin is a prebiotic that has functional properties, its ingestion results in a significant increase of beneficial bacteria and reduction of undesirable bacteria besides having a positive impact on the absorption of minerals like calcium, phosphorus and magnesium. Thus, it acts in the improvement of well-being and health, reducing the risk of diseases. The objective of this work was to evaluate the quantitative characteristics of 30 carcasses of male and female Boer + Saanen goats using inulin in the diet. The animals were distributed in a completely randomized design in a 3 x 2 factorial scheme, with five replicates, with inulin levels: Control - without inclusion of inulin, 3 g inulin kg^{-1} DM, or 6 g inulin kg^{-1} DM and sex (male and female). The animals received complete pelleted ration and the diets were adjusted to gain 0.150 kg^{-1} day. The goat kids were weighed at the beginning of the experiment and every 14 days until reaching the final weight of 30.6 ± 1.09 kg. Then fasted for 16 hours and then weighed and slaughtered. The carcasses were weighed after slaughter, to obtain the hot carcass weight (HCW) and stored in a cold room at 5ºC for 24 hours, and then weighed, obtaining the cold carcass weight (CCW). With the data were measured commercial carcass yield (CCY) and biological carcass yield (BCY), carcass compactness index (CCI) and compactness index of the leg (CIL). Inulin levels (0, 3 or 6 g) in the diets did not influence (P>0.05) in HCW (14.93 ± 0.38 kg), CCW (14.89 ± 0.39 kg), CCY (48, 63 ± 0.98%), BCY (54.65 ± 0.51%), CCI (0.291 ± 0.007 kg^{-1} cm) CIL (0.710 ± 0.008), respectively. There were also no differences between male and female (P>0.05) for any of the parameters, HCW (14.93 ± 0.09 kg), CCW (14.89 ± 0.12 kg) CCY (48.62 ± 0.04%), BCY (54.65 ± 0.01%), CCI (0.298 ± 0.001 kg^{-1} cm) and CIL (0.709 ± 0.020). The inclusion of inulin in the diet of Boer + Saanen kids does not influence the quantitative characteristics of the carcass.

Keywords: carcass yield, carcass compatibility index, prebiotic