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Studying the effect of different levels of sugar cane molasses and Vinases on male lambs fattening nutrition

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Abstract

In order to investigate the effects of replacing different levels of molasses with sugarcane vinasses on efficiency, carcass characteristics and meat quality of Lorry-Bakhtiari growing lambs, 25 male lambs weighing 24 ± 2 for 116 days including 15 days of adaptation and 101 days for primary period were used in a completely randomized design with 5 treatments and 5 replications. The experimental diets included: diet 1) basal diet + 20% molasses + 0% vinasses (control), diet 2) basal diet + 15% molasses + 5% vinasses, diet 3) basal diet + 10% molasses + 10% vinasses, diet 4) basal diet + 5% molasses + 15% vinasses, and diet 5) basal diet + 0% molasses + 20% vinasses. Based on the results, The amount of dry matter intake, daily weight gain, food conversion and final weight were not affected by adding vinasses to the diets ($P > 0.05$). The carcass characteristics including hot carcass, cold carcass, Leg, Cuff Pre-Breast, neck, Crushed, Sirloin, tail and Ordered cross section were not affected by vinasses addition to diet ($P > 0.05$). Carcass efficiency were not significant between experimental treatments ($P > 0.05$). The internal fat of carcasses of lambs receiving diets containing different levels of vinasses showed a significant decrease compared to the control group ($P < 0.05$). There was no significant difference in pH and meat chemical compositions of the lambs receiving vinasses with the control group ($P > 0.05$). In general, sugarcane vinasses can be replaced without any adverse effect on carcass characteristics up to 20% of diet of lorry-Bakhtiari male lambs.

Key words: molasses, vinasses, carcass characteristics, male lamb