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Supplementation bagasse brewery in the diet of sheep in a family system in the state of Hidalgo, Mexico

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Industrial wastes pose a threat of environmental pollution worldwide. The beer industrial process produces huge amounts of semiliquid waste, which can be reused in animal feed. In Mexico the family sheep production systems are based on forages that miss in dry times, so the lack of quality food causes high and low weight gains in animals. The aim of this study was to use bagasse brewery to supplement the ration of crossbred sheep meat during development and test weight gain. The study was conducted in the municipality of Cuautlalpan, state of Mexico under a system of household production with 9 sheep landrace (7 females and 2 males) with an initial weight of 35 kg. The 9 sheep were selected randomly and grouped into two treatments. The control group (T0) with 2 animals, T1 with 3 and T2 with 4, using a statistical model completely randomized with a factorial arrangement 2×3 (two treatments per 3 animals) and a comparison of means with Tukey's test. The results of the statistical analysis showed a positive effect of supplementation with bagasse brewery in the diet of sheep in the development stage significantly on the daily weight gain ($P \leq 0.05$). It is concluded that supplementation with brewer bagasse in a 10% of dry basis ration, helps improve weight gain of crossbred sheep in regions close to breweries.

Biography

Silvia Denise Peña Betancourt is a Veterinarian, completed her Master of Science from UNAM-FMVZ, Toxicology Specialist Clinic at Faculty Medicine Alexis Carrel and Doctor of Pharmaceutical Science at Faculty of Claude Bernard University. She currently works as a Research Professor at UAM-X, since 1991 to date and as Toxicology Laboratory Responsible at Department of Agricultural and Animal Production in UAM-X. She has written more than 30 research papers in national and international journals and is a Member of National Council of Animal Health and published books and books chapter in toxicology

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