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The type of condensed tannins affected differently growth and meat lipid oxidation of light lambs S. Lobón, A. Sanz, G. Ripoll, M. Joy and M. Blanco

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The aim of this study was to assess the effect of the feeding during lactation and the inclusion of condensed tannins (CT) in the concentrate during the fattening period on productive parameters and on meat lipid oxidation of light lambs. At parturition, 63 Rasa Aragonesa ewe-lamb pairs were randomly distributed in 3 treatments. During the lactation period, one group was housed indoors and received a total mixed ration (TMR), a second group was stocked on alfalfa (Medicago sativa) paddocks (Alfalfa) and the third group was stocked on sainfoin (Onobrychis viciifolia) paddocks (Sainfoin). At day 42, the lambs were weaned and half of the lambs of each feeding treatment was fed a commercial concentrate (Control; 11.9 MJ/kg FM, 17.5% crude protein) or a commercial concentrate with 5% of Quebracho (QUE, SYLVAFEED ByPro Q, Spain, with 75% of CT; 11.7 MJ/kg FM, 17.5% crude protein). When lambs reached the target slaughter weight (22-24 kg BW), they were slaughtered. Carcass characteristics were registered and samples of the Longissimus thoracis et lumborum muscle were obtained to study the intramuscular fat content and the lipid oxidation of the meat. The feeding treatment during lactation slightly affected weight gains and BW at slaughter of lambs. Sainfoin treatment tended to improve the BW at slaughter (P=0.09). TMR lambs had the heaviest carcasses and greater dressing percentage and kidney fat depots, Sainfoin lambs intermediate, and Alfalfa lambs the lowest. Regarding lipid oxidation of meat, Sainfoin lambs presented the lower level from 5 d until 14 d of storage (P<0.05). The inclusion of Quebracho in the concentrate tended to improve the weight gains during fattening period and the BW at slaughter (P<0.1) at the same age (P>0.05) but did not affect lipid oxidation.

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