

Incorporation Jatropha Curcas Meal on Lambs Ration and It's Effect on Lambs Performance

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Abstarc :

This study was conducted to determine the effect of heat (HJM), or biologically with lactobacillus bacteria (BJM), treatments of Jatropha curcas meal with on concentrate ion of anti-nutritive compounds. In order to replacement of costly imported soybean meal and find out their effects on rumen fermentation characteristics degradability and consequently lambs performance. Seven concentrates feed mixtures (CFM), contained soybean meal was replaced with untreated Jatropha meal (UJM) by 0%, JMU (CFM0), 25% JMU (CFM1), 50% JMU (CFM2), or heated Jatropha meal (JMH) by 25% (CFM4) and 50% JMH (CFM5) or biological Jatropha meal (JMB) by 25% (CFM10) and 50% JMI (CFM11), were formulated to study their degradation kinetics in the rumen, concentration of anti-nutritive compounds and performance of lambs fed tested rations. Biological treated (BJM) was more effective in decreasing anti-nutritive compounds than heat treatment. These were reflecting on the degradation kinetics, where DM and OM and their effective degradability (ED) were higher in (BJM) than (HJM). No significant differences were detected for daily gain of lambs fed rations contained Basel or that contained 50% BJM. Economic cash return was more profit for BJM ration than the Basel ration. Under the conditions of the present experiment, could be concluded that the bacterial treated JCMB could be replaced up to 50% JMB with Soybean meal at CFM. [Abo El-Fadel .M.H., Hussein, A.M. and Mohamed, A.H. Incorporation Jatropha Curcas Meal on Lambs Ration and It's Effect on Lambs Performance. Nature and Science 2011;9(2):15-18]. (ISSN: 1545-0740). <http://www.sciencepub.net>.

Key Word :

Jatrofa curcas meal, biological treated heated treated, degradability and daily gain

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