

Effects of concentrate and plant extracts mixture on intake willingness in goat ⁽¹⁾

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Abstract

The study was a preliminary evaluation for making the ointment used in preventing self-sucking behavior of goat. The plant extract with special flavor mixed with the daily ration to feed goat, trying to determine the plant extract to inhibit the goat intake willingness. Four castration bucks with similar body weight were raised in individual pen with hay provided ad libitum. The diet of control (mixed with water) and three different plant extracts made from custard apple (water-extracted), bitter apple, and camphor oil were mixed with feed, respectively. In twelve-day adapting period, all goats were fed the same diet as pretest-period. During four-day pretesting period, the feed intake was recorded 120 min after feeding. In experiment I, the results showed that the goats fed the diet mixed with camphor extract had the averaged intake significantly lower (20 g) than those fed the diet mixed with the other extracts. In experiment II, the goats fed with the diet mixed with custard apple (leaf juice) had the lowest intake (79 g). The plant extract from camphor with strong-stimulating odor showed the best goat-repellent efficiency among all plant extracts. Based on the results, it showed that goat was more sensitive with smelling than the bitter taste. Therefore, it was recommended to use plant extracts with special odor for preventing self-sucking of goat, which might be better effects.

Key words: Self-sucking, Plant extract, Goat.

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