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#### KEY WORDS (at least 5 words)

- ✓ Saanen Kids
- ✓ Garlic
- ✓ Fecal Characteristic
- ✓ Health

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## Effects of Garlic Extract on Selected Fecal Characteristics and Health of Neonatal Saanen Kids During the Suckling Period

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#### THESIS ABSTRACT

In the thesis study, the effects of garlic powder extract on some feces characteristics, body weight, average daily live weight gain, diarrhea formation and incidence and hematological parameters were investigated and 27 newborn kids were used. The kids were divided into three groups formed. Each group consisted of 9 kids aged 3 days. The experiment was terminated when the kids reached 28 days of age. Two of these groups were given 50 mg/kg body weight garlic product supplement and 100 mg/kg body weight garlic product supplement. Nothing was given to the other group. No difference was found between the groups in terms of body weight, average daily live weight gain, feces score, fecal total coliform, number of days with diarrhea, diarrhea incidence and body temperature. While no statistical difference was found between the groups in feces pH at 3 and 18 days of age, feces pH at 10 days of age was lower in Group 1 compared to the control group and feces pH at 28 days of age in Group 2 was higher than the control group and Group 1. At 29 days of age, no difference was observed between the groups in terms of total leukocyte, lymphocyte, neutrophil, monocyte and eosinophil counts. Group 1 was found to have a lower basophil concentration than the control and Group 2. It was concluded that 50 mg/kg body weight/day of garlic powder extract may be helpful in reducing the occurrence of diarrhea in newborn kids, since both the average number of days with diarrhea and the incidence of diarrhea were numerically reduced in Group 1 compared to the control group.

#### APPLICATION AREAS OF THE THESIS RESULTS

The main goals of animal production are high productivity, healthy animals. Accordingly, herbs and spices have effects on digestive stimulants and physiological functions. The results of our study are thought to be useful for determining the dose and duration of garlic supplementation in future studies investigating the effects of garlic on growth performance, fecal characteristics and health status in neonatal ruminants.

#### ACADEMIC ACTIVITIES

1. Kara Ç, AC GÖK (2025) Effects of garlic powder extract on selected fecal characteristics and health of neonatal Saanen goat kids DOI: 10.12681/jhvms.39169
2. Kara Ç, Ürkmez E, Acar A, Abdullahoğlu E, Orman A, Efil M, Karslıoğlu Kara N and AC Gök (2025) The evaluation of nutrient compositions of alfalfa hay and corn silage used in dairy farms in Marmara Region, Türkiye DOI: 10.12681/jhvms.37483
3. Kara Ç, AC GÖK (2024) Effects of Garlic Extract on Selected Fecal Characteristics and Health of Neonatal Saanen Kids, International Conference on Veterinary and Livestock (ICVL-2024)