

PERBEDAAN KOMPOSISI KIMIA SUSU KAMBING SAPERA PADA AWAL DAN PERTENGAHAN PERIODE LAKTASI

Febriyanah
19/439375/PT/08010

INTISARI

Penelitian ini bertujuan untuk mengetahui perbedaan komposisi kimia susu kambing Sapera pada awal dan pertengahan periode laktasi. Penelitian ini dilaksanakan di Bhumi Nararya Farm di Girikerto, Turi, Sleman, Yogyakarta pada bulan November 2022 hingga Januari 2023. Penelitian ini menggunakan 24 ekor induk kambing Sapera periode laktasi kedua. Sampel dibagi menjadi 2 kelompok berdasarkan masa laktasinya yaitu 12 ekor induk awal laktasi dan 12 ekor induk pertengahan laktasi. Sampel susu yang digunakan berasal dari susu yang diperah pada pagi hari. Parameter yang diamati adalah komposisi susu, meliputi kadar bahan kering, bahan kering tanpa lemak, laktosa, lemak, protein, dan kadar abu. Perbedaan rata-rata nilai komposisi kimia susu kambing Sapera pada awal dan pertengahan periode laktasi dianalisis menggunakan *independent sample t test*. Hasil penelitian menunjukkan bahwa komposisi kimia susu kambing Sapera pada awal dan pertengahan periode laktasi memiliki perbedaan ($P < 0,05$), kecuali laktosa. Kadar bahan kering pada awal dan pertengahan periode laktasi yaitu $13,95 \pm 1,81$ dan $15,53 \pm 1,07$. Kadar bahan kering tanpa lemak pada awal dan pertengahan periode laktasi yaitu $9,13 \pm 0,64$ dan $9,98 \pm 0,37$. Kadar laktosa pada awal dan pertengahan periode laktasi yaitu $4,98 \pm 0,75$ dan $5,13 \pm 0,56$. Kadar lemak pada awal dan pertengahan periode laktasi yaitu $4,82 \pm 1,48$ dan $5,54 \pm 0,92$. Kadar protein pada awal dan pertengahan periode laktasi yaitu $3,39 \pm 0,68$ dan $4,07 \pm 0,51$. Kadar abu pada awal dan pertengahan periode laktasi yaitu $0,76 \pm 0,057$ dan $0,79 \pm 0,067$. Komposisi kimia susu kambing Sapera pada pertengahan laktasi lebih tinggi daripada awal laktasi.

Kata kunci: Kambing Sapera, Komposisi Kimia Susu, Awal Laktasi, Pertengahan Laktasi

DIFFERENCES IN THE CHEMICAL COMPOSITION OF SAPERA GOAT MILK IN THE EARLY AND MIDDLE OF LACTATION PERIOD

Febriyanah
19/439375/PT/08010

ABSTRACT

The objective of this research was to determine differences in the chemical composition of Sapera goat milk in the early and middle of the lactation period. This research was conducted at Bhumi Nararya Farm, Girikerto, Turi, Sleman, Yogyakarta from November 2022 to January 2023. This research used 24 lactating Sapera goats during the second lactation period. Samples were divided into 2 groups based on their lactation stage, 12 lactating Sapera goats in the early lactation and 12 lactating Sapera goats in the mid-lactation. The milk samples used is the morning milk. The observed parameters of milk composition were contents of total solid, total solid non-fat, fat, protein, and ash. Differences in the average value of the chemical composition of Sapera goat milk in the early and middle of the lactation period were analyzed using an independent-sample t-test. The results showed that the chemical composition of Sapera goat milk in the early and middle of the lactation period was significantly different ($P < 0.05$) except for lactose. The total solid content in the early and middle of the lactation period were 13.95 ± 1.81 and 15.53 ± 1.07 . Total solid non-fat content in the early and middle of the lactation period were 9.13 ± 0.64 and 9.98 ± 0.37 . Lactose content in the early and middle of the lactation period were 4.98 ± 0.75 and 5.13 ± 0.56 . Fat content in the early and middle of the lactation period were 4.82 ± 1.48 and 5.54 ± 0.92 . Protein content in the early and middle of the lactation period were 3.39 ± 0.68 and 4.07 ± 0.51 . Ash content in the early and middle of the lactation period were 0.76 ± 0.057 and 0.79 ± 0.067 . The chemical composition of Sapera goat milk in mid-lactation is higher than in early lactation.

Key words: Sapera Goat, Milk Chemical Composition, Early Lactation, Mid-Lactation.