

PENGARUH *BODY CONDITION SCORE* YANG BERBEDA PADA AWAL LAKTASI TERHADAP KOMPOSISI KIMIA SUSU KAMBING SAPERA

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INTISARI

Susu kambing merupakan cairan berwarna putih yang disekresikan oleh kelenjar *mammæ*. *Body condition score* merupakan suatu penilaian tingkat perlemakan tubuh ternak. Penelitian ini bertujuan untuk mengetahui pengaruh *body condition score* yang berbeda pada awal laktasi terhadap komposisi kimia susu kambing Sapera. Penelitian ini telah dilaksanakan pada bulan April sampai Juni 2025 yang berlokasi di Turi dan Kalasan, Sleman, Daerah Istimewa Yogyakarta. Penelitian ini menggunakan 9 sampel kambing Sapera dengan $BCS < 3$ dan 9 sampel kambing Sapera dengan $BCS \geq 3$. Pengambilan sampel susu diperoleh dari pemerahan pagi dan sore. Data yang diperoleh dalam penelitian dianalisis menggunakan metode *Independent Sample T-Test*. Hasil penelitian menunjukkan komposisi kimia susu kambing Sapera pada $BCS < 3$ dan $BCS \geq 3$ memiliki kadar protein masing-masing $2,92 \pm 0,30\%$ dan $3,45 \pm 0,35\%$ yang berbeda signifikan ($P < 0,05$); kadar lemak masing-masing $4,36 \pm 0,59\%$ dan $4,97 \pm 0,56\%$; kadar bahan kering masing-masing $14,27 \pm 1,60\%$ dan $14,84 \pm 0,70\%$; kadar laktosa masing-masing $3,42 \pm 0,27\%$ dan $3,53 \pm 0,30\%$; kadar abu masing-masing $0,78 \pm 0,04\%$ dan $0,79 \pm 0,05\%$. Dapat disimpulkan bahwa perbedaan *body condition score* pada awal laktasi berpengaruh signifikan terhadap kadar protein susu kambing Sapera, sedangkan kadar lemak, bahan kering, laktosa dan abu tidak menunjukkan perbedaan yang signifikan.

Kata Kunci: *Body Condition Score*, Komposisi Kimia Susu, Kambing Sapera

THE EFFECT OF DIFFERENT BODY CONDITION SCORE AT EARLY LACTATION ON THE MILK CHEMICAL COMPOSITION OF SAPERA GOATS

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ABSTRACT

Goats milk is a white liquid secreted by the mammary glands. Body condition score is an assessment of the level of fatty body of livestock. This research aims to determine the effect of different body condition score at early lactation on the milk chemical composition of Sapera goats. This research was conducted from April to June 2025 located in Turi and Kalasan, Sleman, Special Region of Yogyakarta. This research used 9 samples of Sapera goats with $BCS < 3$ and 9 samples of Sapera with $BCS \geq 3$. The data were analyzed using Independent Sample T-Test. The results showed that Sapera goats milk with $BCS < 3$ and $BCS \geq 3$ had protein content of $2.92 \pm 0.30\%$ and $3.45\% \pm 0.35$, respectively, which were significantly different ($P < 0.05$); fat content of $4.36 \pm 0.59\%$ and $4.97 \pm 0.56\%$, respectively; dry matter content of $14.27 \pm 1.60\%$ and $14.84 \pm 0.70\%$, respectively; lactose content of $3.42 \pm 0.27\%$ and $3.53 \pm 0.30\%$, respectively; ash content of $0.78 \pm 0.04\%$ and $0.79 \pm 0.05\%$, respectively. It can be concluded that differences in body condition score at early lactation can significantly affect the milk protein content of Sapera goats, while the content of fat, dry matter, lactose and ash do not show significant differences.

Keywords: Body Condition Score, Milk Chemical Composition, Sapera Goats