

KUALITAS SUSU SAPI PERAH PERANAKAN *FRIESIAN HOLSTEIN* DI KABUPATEN SLEMAN DAERAH ISTIMEWA YOGYAKARTA

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INTISARI*)

Penelitian ini bertujuan untuk mengetahui kualitas susu sapi perah Peranakan *Friesian Holstein* di Kabupaten Sleman Daerah Istimewa Yogyakarta. Penelitian ini dilaksanakan pada tanggal 30 agustus - 26 September 2021, pengambilan sampel di Kabupaten Sleman, Daerah Istimewa Yogyakarta dan pengujian sampel di Laboratorium Peternakan, Fakultas Agroindustri, Universitas Mercu Buana Yogyakarta. Materi utama penelitian ini adalah susu segar sapi perah Peranakan *Friesian Holstein* sebanyak 9 liter yang diperoleh dari peternak yang berada di Kabupaten Sleman, untuk dilakukan pemeriksaan kualitas susu serta uji Berat Jenis susu. Penelitian ini dirancang menggunakan Rancangan Acak Lengkap (RAL) dengan pola searah yang terdiri dari 3 lokasi pengamatan yaitu Cangkringan, Pakem dan Turi, masing-masing lokasi pengamatan terdiri dari 3 ulangan. Variabel yang di amati yaitu meliputi kualitas susu warna, bau, rasa, konsistensi pH dan uji Berat Jenis susu. Data dianalisis dengan menggunakan *Analysis of variance* (ANOVA). Jika terdapat hasil Anova berbeda nyata maka dilanjutkan dengan uji *Duncan's New Multiple Range Test* (DMRT). Hasil penelitian menunjukkan hasil rerata kualitas susu yaitu P1; P2 dan P3 berturut-turut adalah warna susu 2,90; 3,23 dan 2,78, bau susu 3,7; 3,6 dan 3,8, rasa susu 3,20; P2: 3,27 dan 3,47, konsistensi 3,23; 3,17 dan 2,93, pH susu 6,9; 6,9, dan 6,9 berat jenis susu 1,0254; 1,0257 dan 1,0259. Hasil analisis variens menunjukkan perbedaan yang nyata ($P<0,05$) hanya terdapat pada variabel warna susu dan perbedaan tidak nyata ($P>0,05$) pada variabel bau susu, rasa susu, konsistensi, pH susu, dan berat jenis susu. Berdasarkan penelitian bahwa kualitas susu sapi segar yang terdapat di Kabupaten Sleman Daerah Istimewa Yogyakarta dalam keadaan baik, aman dan layak untuk dikonsumsi.

Kata kunci: kualitas susu, sapi, Sleman

*) Intisari Skripsi Sarjana Perternakan, Program Studi Peternakan, Fakultas Agroindustri, Universitas Mercu Buana Yogyakarta 2022.

QUALITY OF FRIESIAN HOLSTEIN CROSSBREED MILK IN SLEMAN REGENCY, DAERAH ISTIMEWA YOGYAKARTA

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ABSTRACT*)

This study aims to determine the quality of Friesian Holstein Crossbreed Milk in Sleman Regency, Daerah Istimewa Yogyakarta. This research was conducted on 30 August - 26 September 2021, sampling in Sleman Regency, Yogyakarta Special Region and sample testing at the Animal Husbandry Laboratory, Faculty of Agroindustry, Mercu Buana University Yogyakarta. The main material of this research is 9 liters of fresh milk from Friesian Holstein (PFH) dairy cows obtained from farmers in Sleman Regency, to check the quality of the milk and test the specific gravity of the milk. This study was designed using a Completely Randomized Design (CRD) with a unidirectional pattern consisting of 3 observation locations namely Cangkringan, Pakem and Turi, each observation location consisting of 3 replications. The observed variables included milk quality, color, smell, taste, pH consistency and Milk Specific Gravity test. Data were analyzed using Analysis of variance (ANOVA). If there is a significantly different Anova result, then it is continued with the Duncan's New Multiple Range Test (DMRT) test. The results showed that the average quality of milk was P1; P2 and P3 respectively are milk color 2.90; 3.23 and 2.78, the smell of milk 3.7; 3.6 and 3.8, milk flavor 3.20; P2: 3.27 and 3.47, consistency 3.23; 3.17 and 2.93, milk pH 6.9; 6.9, and 6.9 specific gravity of milk 1.0254; 1.0257 and 1.0259. The results of the analysis of variance showed that the significant difference ($P<0.05$) was only in the milk color variable and the non-significant difference ($P>0.05$) in the milk odor, milk taste, consistency, milk pH, and milk specific gravity variables. Based on research that the quality of fresh cow's milk found in Sleman Regency, Yogyakarta Special Region is in good condition, safe and suitable for consumption.

Keywords: milk quality, cow, Sleman

*) Abstract From Thesis of Animal Husbandry Degree, Faculty of Agroindustry University of Mercu Buana Yogyakarta, 2022.