

ABSTRAK

EVALUASI KADAR PROTEIN PADA *MILK REPLACER* UNTUK ANAK ANJING YANG TERSEDIA SECARA KOMERSIAL

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Protein merupakan makromolekul yang berperan penting bagi kehidupan anjing khususnya anak anjing, namun tidak semua induk anjing mampu mencukupi kebutuhan protein anak anjing sehingga diperlukan *milk replacer* untuk membantu mencukupi kebutuhan protein anak anjing. Tujuan dari penelitian ini adalah untuk mempelajari kadar protein yang terkandung dalam lima sampel *milk replacer* yang tersedia secara komersial. Sampel *milk replacer* diperoleh dengan cara membeli langsung dari beberapa *pet shop* di sekitar Kabupaten Sleman dan Kota Yogyakarta, Daerah Istimewa Yogyakarta. Kadar protein *milk replacer* kemudian dianalisis menggunakan metode Kjeldahl yang dilakukan secara laboratorik di Pusat Studi Pangan dan Gizi Universitas Gadjah Mada. Hasil penelitian menunjukkan bahwa kandungan protein yang dari kelima sampel *milk replacer* secara berturut-turut adalah 32,02 g/1000 kcal ME, 29,66 g/1000 kcal ME, 6,33 g/1000 kcal ME, 13,88 g/1000 kcal ME, dan 25,7 g/1000 kcal ME. Berdasarkan hasil penelitian tersebut, kadar protein yang terkandung dalam lima sampel *milk replacer* tidak sesuai dengan standar rekomendasi National Research Council (NRC) yaitu kebutuhan minimal protein untuk anak anjing berumur 4-14 minggu sebesar 45 g/1000 kcal ME dan asupan protein yang disarankan untuk anak anjing berumur 4-14 sebesar 56.3 g/1000 kcal ME.

Kata kunci: protein susu, *milk replacer*, anak anjing, metode kjeldahl

ABSTRACT

EVALUATION OF PROTEIN CONTENT IN COMMERCIALY AVAILABLE MILK REPLACERS FOR PUPPIES

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Protein is a macromolecule that has an important role for the life of dogs, especially puppies. However, not all lactating dogs can supply the necessary protein to their offspring, making it necessary to use milk replacers to help fulfill these protein requirements. The research aims to analyze the protein content in five samples of commercially available milk replacer for puppies. The milk replacer samples were obtained by purchasing directly from several pet shops around Sleman Regency and Yogyakarta City, Yogyakarta Special Region. The protein content of milk replacer was then analyzed using the Kjeldahl method, which was carried out at the Center for Food and Nutrition Studies Laboratory, Gadjah Mada University. The results indicated the protein content of the five milk replacer samples were 32.02 g/1000 kcal ME, 29.66 g/1000 kcal ME, 6.33 g/1000 kcal ME, 13.88 g/1000 kcal ME, and 25.7 g/1000 kcal ME. Based on the results, the protein content in the five milk replacer samples did not comply with the recommended standards by National Research Council (NRC), suggesting that puppies between the age of 4-14 weeks should have a protein requirement of 45 g/1000 kcal ME and intake of 56.3 g/1000 kcal ME at this particular stage.

Keywords: milk protein, milk replacer, puppies, kjeldahl method