KARAKTERISTIK FISIK RANSUM YANG MENGANDUNG TEPUNG KULIT BUAH NAGA (*Hylocereus Polyrhizus*) DAN IMPLIKASINYA PADA KECERNAAN PROTEIN SERTA ENERGI METABOLIS

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RINGKASAN

Tepung kulit buah naga muncul sebagai salah satu bahan pakan alternatif yang menarik untuk digunakan dalam ransum ternak, termasuk pada broiler. Tepung kulit buah naga mengandung berbagai komponen nutrisi yang berpotensi memberikan nilai tambah pada ransum ternak. Penelitian bertujuan untuk menganalisis karakteristik fisik ransum yang mengandung tepung kulit buah naga dan implikasinya pada kecernaan protein serta energi metabolis. Penelitian dilakukan dalam rancangan acak lengkap (RAL), terdiri atas 3 perlakuan dan 6 ulangan. Setiap ulangan berisi 5 ekor broiler sehingga ada 90 ekor broiler. Penambahan tepung kulit buah naga dalam dosis yang berbeda berpengaruh nyata terhadap kadar air, berat jenis, kerapatan pemadatan tumpukan, daya ambang, tetapi tidak berpengaruh nyata pada kerapatan tumpukan.Penambahan tepung kulit buah naga berpengaruh terhadap kecernaan bahan kering, kecernaan protein kasar dan energi metabolis.

Kata Kunci : Buah Naga, Karakteristik, Kecernaan dan Metabolis

PHYSICAL CHARACTERISTICS OF RATIONS CONTAINING DRAGON FRUIT PEEL FLOUR (Hylocereus Polyrhizus) AND ITS IMPLICATIONS ON PROTEIN DIGESTIBILITY AND METABOLIC ENERGY

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ABSTRACT

Dragon fruit peel flour has emerged as one of the interesting alternative feed ingredients to be used in livestock rations, including in broilers. Dragon fruit peel flour contains various nutritional components that have the potential to add value to livestock rations. The study aims to analyze the physical characteristics of rations containing dragon fruit peel flour and its implications on protein digestibility metabolic energy. The study was conducted in a complete randomized design (RAL), consisting of 3 treatments and 6 replicates. Each replicate contains 5 broilers so there are 90 broilers. The addition of dragon fruit peel flour in different doses had a significant effect on moisture content, specific gravity, pile compaction density, and threshold, but had no significant effect on pile density. The addition of dragon fruit peel flour affects the digestibility of dry ingredients, digestibility of crude proteins and metabolic energy.

Keywords: Dragon Fruit, Characteristics, Digestibility and Metabolism