

KECERNAAN NUTRIEN RANSUM DENGAN PENAMBAHAN
JUS NANOKAPSUL KUNYIT PADA AYAM KAMPUNG
UNGGUL BALITBANGTAN

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INTISARI *)

Penelitian ini bertujuan untuk mengetahui pengaruh ransum yang dicampur jus nanokapsul kunyit terhadap pencernaan nutrisi pada ayam KUB. Penelitian ini dilakukan di dusun Sorolaten, Sidokarto, Godean, Sleman, Yogyakarta dan di Laboratorium Nutrisi Ternak dan Teknologi Hasil Ternak, Program Studi Peternakan, Fakultas Agroindustri, Universitas Mercu Buana, Yogyakarta. Penelitian ini dilaksanakan tanggal 15 Mei – 20 Agustus 2022. Rancangan yang digunakan adalah Rancangan Acak Lengkap (RAL) pola searah dengan 5 perlakuan. Perlakuan jus nanokapsul kunyit pada P1(0%), P2 (2%), P3 (4%), P4 (6%), dan P5 (8%). Setiap perlakuan terdiri dari 4 (empat) ulangan. Serat Kasar, Lemak Kasar, Abu dan Bahan Kering. Data yang diperoleh dalam penelitian dianalisis menggunakan analisis variansi (ANOVA). jika terdapat perbedaan nyata dilanjutkan dengan *Duncan's new Multiple Range* (DMRT) menggunakan SPSS 20. Variabel yang diamati meliputi pencernaan serat kasar, pencernaan lemak kasar, pencernaan abu, dan pencernaan bahan kering. Hasil penelitian dengan perlakuan jus nanokapsul 0%, 2%, 4%, 6%, dan 8% secara berturut – turut yaitu pencernaan serat kasar 87,25%, 83,49%, 85,27%, 89,61%, dan 87,74% pencernaan lemak kasar 92,54%, 90,85%, 97,38%, 94,98% dan 93,09% pencernaan abu 95,63%, 82,44%, 89,63%, 82,75%, dan 94,36% pencernaan bahan kering 77,47%, 78,21%, 88,06%, 86,18%, dan 87,99%. Berdasarkan hasil penelitian dapat disimpulkan bahwa penambahan jus nanokapsul kunyit sampai level 8% pada ransum tidak mempengaruhi pencernaan nutrisi pada ayam kampung unggul balitbangtan tetapi menurunkan pencernaan abu .

Kata Kunci : Ayam KUB, pencernaan nutrisi, jus nanokapsul kunyit

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NUTRIENT DIGESTIBILITY OF RATION WITH TURMERIC
NANOCAPSULE JUICE ADDITION ON KAMPUNG
UNGGUL BALITBANGTAN CHICKEN

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ABSTRACT *)

This study aimed to determine the effect of ration mixed with turmeric nanocapsule juice on nutrient digestibility in KUB chicken. This research was conducted in Sorolaten, Sidokarto, Godean, Sleman, Yogyakarta and at the Laboratory of Animal Nutrition and Animal Product Technology, Animal Husbandry Study Program, Faculty of Agroindustry, University of Mercu Buana Yogyakarta. This research was conducted on 15 Mayth – August 20th 2022. The research design used was a completely randomized design (CRD) with 5 treatments. Treatment of turmeric nanocapsule juice at P1 (0%), P2 (2%), P3 (4%), P4 (6%), and P5 (8%). Each treatment consisted of 4 (four) replication. Crude fiber, crude fat, ash, and dry matter. The data obtained in the study were analyzed using analysis of variance (ANOVA) if there were significant difference, continued with Duncan's view Multiple Range Test (DMRT). using SPSS 20. Variable observed included crude fiber digestibility, crude fat digestibility, ash digestibility, and dry matter digestibility. The result of the research with nanocapsule juice treatment 0%, 2%, 4%, 6%, and 8% respectively were Digestibility of crude fiber was 87.25%, 83.49%, 85.27%, 89.61 %, and 87.74% Digestibility of crude fat 92.54%, 90.85%, 97.38%, 94.98% and 93.09% Digestibility of ash 95.63%, 82.44 %, 89.63%, 82.75%, and 94.36% Digestibility of dry matter 77.47%, 78.21%, 88.06%, 86.18%, and 87.99%. Based on the result of the study it could be concluded that the addition of turmeric nanocapsule juice up of a level 8% in the ration did not affect on nutrient digestibility of kampung unggul Balitbangtan chicken but lower ash digestibility.

Keywords: KUB chicken, nutrient digestibility, turmeric nanocapsule juice

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