

**PENGARUH LEVEL NANO KAPSUL KUNYIT DALAM RANSUM TERHADAP  
KOLESTEROL, ASAM LEMAK, DAN TRIGLISERIDA PADA SERUM, HATI  
DAN DAGING ITIK LOKAL JANTAN**

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**INTISARI\***

Penelitian ini bertujuan untuk mengetahui pengaruh level nanokapsul kunyit dalam ransum terhadap kolesterol, asam lemak, dan trigliserida pada serum, hati, dan daging itik jantan lokal. Penelitian ini dilaksanakan pada 8 April – 13 Mei 2018 di Unit Pelaksana Teknis (UPT) Universitas Mercu Buana Yogyakarta, Laboratorium Teknologi Pangan dan Gizi Universitas Gadjah Mada dan Laboratorium PascaSarjana Universitas Gadjah Mada. Penelitian ini menggunakan Rancangan Acak Lengkap (RAL) pola searah dengan 7 perlakuan masing – masing 3 ulangan dengan penambahan nanokapsul kunyit 0% (kontrol), 1%, 2%, 3%, 4%, 5%, dan 6% dalam pakan. Variabel yang diamati adalah kolesterol, asam lemak, dan trigliserida. Data yang diperoleh dianalisis ANOVA dan apabila terdapat perbedaan nyata diuji lanjut menggunakan *Duncan's New Multiple Range Test* (DMRT). Penambahan nanokapsul kunyit dalam ransum basal sampai level 6% dapat menaikkan asam palmitat, menurunkan asam oleat dan tidak berpengaruh terhadap total kolesterol dan trigliserida serum, hati, dan daging itik.

Kata kunci : kolesterol, asam lemak, trigliserida, nanokapsul kunyit, itik.

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**THE EFFECT OF TUMERIC NANOCAPSULE LEVEL IN RATION ON  
CHOLESTEROL, FATTY ACID, AND TRIGLISERIDE IN SERUM,  
LIVER AND MEAT OF MALE LOCAL DUCK**

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**ABSTRACT\***

This study aimed to determine the effect of turmeric nanocapsule levels in ration on cholesterol, fatty acid, and triglyceride in serum, liver, and local male duck meat. The research was conducted on April 8 - May 13, 2018 at the Mercu Buana University Technical Implementation Unit (UPT), Food Technology and Nutrient Laboratory at Gdjah Mada University and the Postgraduate Laboratory of Gadjah Mada University. This study used a Completely Randomized Design (CRD) in one way pattern with 7 treatments each of 3 replications with addition of tumeric nanocapsule 0% (control), 1%, 2%, 3%, 4%, 5%, and 6% in ration. The variables observed were cholesterol, fatty acids, and triglycerides. The data obtained were analyzed by ANOVA and if there were significant differences tested further using Duncan's New Multiple Range Test (DMRT). Addition of turmeric nanocapsule in the ration until level 6% can still be used to increase palmitat fatty acid, decrease oleat fatty acid, and for it has not been able significant to cholesterol and triglyceride on serum, liver, and duck meat.

Keywords: cholesterol, fatty acids, triglycerides, turmeric nanocapsules, ducks.

\*) Abstract of Animal Husbandry Thesis, Major of Animal Husbandry, Faculty of Agroindustry, Mercu Buana Yogyakarta University, 2019.