

## **ABSTRAK**

### **PENGARUH MANIPULASI IKLIM KANDANG TERHADAP KADAR HEMOGLOBIN DAN TOTAL PROTEIN PLASMA CALON INDUK KAMBING PERANAKAN ETAWA (PE)**

**Oleh**

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Penelitian ini bertujuan untuk mengetahui pengaruh modifikasi iklim kandang dan mencari modifikasi iklim kandang terbaik terhadap kadar hemoglobin dan total protein plasma calon induk kambing PE. Penelitian dilaksanakan pada Desember 2017 sampai Januari 2018, bertempat di kandang Jurusan Peternakan, Fakultas Pertanian, Universitas Lampung. Rancangan percobaan yang digunakan adalah Rancangan Acak Lengkap dengan 3 kali ulangan dan 3 perlakuan. Perlakuan yang diberikan adalah P1: kandang atap tunggal tanpa pengkabutan; P2: kandang atap tunggal dengan pengkabutan; dan P3: kandang atap ganda. Analisis kadar hemoglobin dan total protein plasma dilaksanakan di Balai Veteriner Regional III Lampung. Data hasil pengamatan dianalisis dengan menggunakan sidik ragam pada taraf nyata 5% dan dilanjutkan dengan uji berganda Duncan's. Hasil penelitian ini menunjukkan bahwa modifikasi iklim kandang berpengaruh nyata ( $P < 0,05$ ) terhadap kadar hemoglobin dan tidak berpengaruh nyata ( $P > 0,05$ ) terhadap total protein plasma calon induk kambing PE. Jumlah kadar hemoglobin dengan nilai tertinggi pada P1 (26,88g/dL) dan terendah pada P2 (24,30 g/dL). Sedangkan jumlah total protein plasma masih dalam kisaran normal dengan nilai tertinggi pada P3 (7,43 g/dL) dan terendah pada P2 (7,20 g/dL).

Kata kunci: hemoglobin, total protein plasma, manipulasi iklim, kambing PE.

## ***ABSTRACT***

### **INFLUENCE OF CLIMATE MANIPULATION ON HEMOGLOBIN LEVELS AND TOTAL PLASMA PROTEINS OF ETTAWA CROSSBREED EWE**

**By**

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This research aims to determine the effect of modification of the microclimate and find the best of modification of microclimate on hemoglobin levels and total plasma proteins of ettawa crossbreed ewe. This study was conducted in December 2017 until January 2018, in the Department of Animal Husbandry, Faculty of Agriculture, Lampung University. Analysis of hemoglobin levels and total plasma proteins was conducted at the Veterinary Centre of Bandar Lampung. The study used Completely Randomized Design with 3 treatments and 3 replications. The treatment is used P1 : single roof without mist-fan cooling; P2 : single roof with mist-fan cooling; and P3 : double roof. Data were analyzed with the assumptions analysis of variant of 5% and followed by Duncan's multiple test. The results of this study indicate that microclimate modification significantly ( $P < 0,05$ ) on hemoglobin levels and not significantly ( $P > 0,05$ ) on total plasma proteins of ettawa crossbreed ewe. The number of hemoglobin levels with the highest value at P1 (26,88 g/dL) and the lowest at P2 (24,30 g/dL). The other hand the total plasma proteins is still within the normal range with the highest value at P3 (7,43 g/dL) and the lowest at P2 (7,20 g/dL).

**Keywords:** hemoglobin, total plasma proteins, climate manipulation, ettawa crossbreed ewe.