

ABSTRAK

PENGARUH PEMBERIAN EKSTRAK MIMBA (*Azadirachta indica*) DALAM AIR MINUM TERHADAP KADAR BUN, UREUM DAN KREATININ PADA AYAM KAMPUNG KUB JANTAN

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Penelitian ini bertujuan untuk mengetahui pengaruh pemberian ekstrak daun mimba (*Azadirachta indica* A. Juss) dalam air minum terhadap kadar *blood urea nitrogen* (BUN), ureum, dan kreatinin pada ayam kampung unggul Balitbangtan (KUB) jantan. Penelitian dilaksanakan pada bulan November–Desember 2025 di Kandang Laboratorium Lapang Terpadu Fakultas Pertanian Universitas Lampung, sedangkan analisis sampel darah dilakukan di Laboratorium Pramita Biolab Indonesia, Bandar Lampung. Penelitian menggunakan rancangan eksperimental dengan lima perlakuan dan tiga ulangan, di mana setiap ulangan terdiri atas tiga ekor ayam. Perlakuan yang diberikan meliputi P0 (kontrol tanpa ekstrak mimba), P1 (2,5 mg/kg BB/hari), P2 (5 mg/kg BB/hari), P3 (10 mg/kg BB/hari), dan P4 (20 mg/kg BB/hari). Pemberian ekstrak mimba dilakukan melalui air minum mulai umur 14 hingga 55 hari. Parameter yang diamati adalah kadar BUN, ureum, dan kreatinin dalam serum darah ayam. Data dianalisis secara deskriptif dan dibandingkan dengan nilai normal fisiologis. Hasil penelitian menunjukkan bahwa pemberian ekstrak daun mimba dalam air minum tidak menyebabkan peningkatan kadar BUN, ureum, dan kreatinin pada ayam kampung KUB jantan. Dengan demikian, pemberian ekstrak daun mimba hingga dosis 20 mg/kg berat badan aman digunakan dan berpotensi mendukung kesehatan ginjal serta metabolisme protein pada ayam kampung jantan.

Kata kunci: Ayam kampung KUB, BUN, Ekstrak daun mimba, Kreatinin, Ureum

ABSTRACT

THE EFFECT OF NEEM (*Azadirachta indica*) LEAF EXTRACT SUPPLEMENTATION IN DRINKING WATER ON BLOOD UREA NITROGEN, UREA, AND CREATININE LEVELS IN MALE NATIVE CHICKENS KUB

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This study aimed to evaluate the effect of neem leaf extract (*Azadirachta indica* A. Juss) administered through drinking water on blood urea nitrogen (BUN), urea, and creatinine levels in male Kampung Unggul Balitbangtan (KUB) chickens. The research was conducted from November to December 2025 at the Integrated Field Laboratory of the Faculty of Agriculture, University of Lampung, while blood sample analysis was carried out at Pramita Biolab Indonesia Laboratory, Bandar Lampung. The study uses an experimental design consisting of five treatments with three replications, each replication consisted of three chickens. The treatments included P0 (control without neem extract), P1 (2.5 mg/kg body weight/day), P2 (5 mg/kg body weight/day), P3 (10 mg/kg body weight/day), and P4 (20 mg/kg body weight/day). Neem leaf extract was administered via drinking water from 14 to 55 days of age. The observed parameters were serum levels of BUN, urea, and creatinine. Data were analyzed descriptively and compared with normal physiological values. The results showed that supplementation of neem leaf extract in drinking water did not increase BUN, urea, or creatinine levels in male KUB chickens. Therefore, neem leaf extract supplementation up to a dose of 20 mg/kg body weight is considered safe and has potential benefits in supporting kidney health and protein metabolism in male native chickens.

Keywords: BUN, Creatinine, KUB chicken, Neem leaf extract, Urea