

## **UTILISASI PAKAN DAN PERTAMBAHAN BOBOT BADAN SAPI MADURA YANG DISUPLEMENTASI TEPUNG BAWANG PUTIH (*Allium sativum*) DAN MINERAL CHROMIUM ORGANIK**

**Caribu Hadi Prayitno, Munasik dan Nur Hidayat**

Fakultas Peternakan, Universitas Jenderal Soedirman, Purwokerto

\*Korespondensi email: caribuunsoed@gmail.com

**Abstrak.** Penelitian bertujuan untuk mengkaji konsumsi dan pencernaan pakan dan penambahan bobot sapi potong yang disuplementasi tepung bawang putih (*Allium sativum*) dan mineral organik (Cr organik). Materi yang digunakan terdiri atas 30 ekor sapi Madura jantan dengan rata-rata bobot awal 298 kg, pakan yang terdiri atas : 60 : 40% , 60% konsentrat dan 40% hijauan (jerami padi), air minum, mineral kromium organik 1,5 ppm, tepung bawang putih (*Allium sativum*) 250 ppm. Metode penelitian eksperimental secara *in vivo* dengan Rancangan Acak Lengkap (RAL) menggunakan 3 perlakuan dan 10 ulangan dengan R<sub>0</sub> : pakan basal ; R<sub>1</sub> : pakan basal + 250 ppm tepung bawang putih ; dan R<sub>2</sub> : pakan basal + 250 ppm tepung bawang putih + 1,5 ppm Cr organik. Hasil penelitian menunjukkan bahwa suplementasi tepung bawang putih dan mineral organik (Cr organik) tidak mempengaruhi konsumsi dan kernaan bahan kering (BK) dan bahan organik (BO), namun meningkatkan pencernaan protein kasar dan penambahan bobot badan harian.

**Kata kunci:** tepung bawang putih, mineral Cr organik, sapi potong, performan

**Abstract.** The purpose of the study was to examine the consumption and digestibility of feed and weight gain of beef cattle supplemented with garlic flour (*Allium sativum*) and organic Chromium (Cr). The material used consisted were 30 male Madura cattle with an average initial weight of 298 kg, feed consisting of: 60: 40%, 60% concentrate and 40% forage (rice straw), drinking water, 1.5 ppm of organic Chromium (Cr), garlic flour (*Allium sativum*) 250 ppm. In vivo experimental research method with Completely Randomized Design (CRD) using 3 treatments and 10 replications with R<sub>0</sub>: basal diet; R<sub>1</sub>: basal feed + 250 ppm garlic flour; and R<sub>2</sub>: basal feed + 250 ppm garlic flour + 1.5 ppm organic Cr. The results showed that supplementation of garlic flour and organic Chromium (Cr) did not affect the consumption and digestibility of dry matter (DM) and organic matter (OM), but increased crude protein digestibility and daily body weight gain.

**Keywords:** garlic flour, organic Chromium, daily gain