

ABSTRAK

ARDIAN DWI CAHYANTO, Penelitian "Pengaruh Pemberian Probiotik Mono dan Multi Strain terhadap Konsumsi Pakan dan PBBH Ayam Broiler yang Dipelihara di Kandang Terbuka" telah dilaksanakan pada 5 Juli – 12 Agustus 2024, bertempat di *Experimental Farm*, Fakultas Peternakan, Universitas Jenderal Soedirman. Tujuan dari penelitian ini adalah untuk mengkaji pengaruh penambahan probiotik multi strain (*Saccharomyces cerevisiae* dan *Bacillus coagulans*) dalam pakan terhadap konsumsi pakan dan pertambahan bobot badan harian ayam broiler. Penelitian ini menggunakan 100 ekor ayam jantan yang telah diseleksi bobot badan sehingga seragam. Rancangan penelitian yang digunakan, yaitu menggunakan rancangan acak lengkap yang terdiri dari 4 perlakuan dan 5 ulangan, sehingga diperoleh 20 unit percobaan. Setiap unit percobaan terdiri dari 5 ekor ayam broiler. Perlakuan yang diberikan yaitu pemberian probiotik mono dan multi strain dalam pakan yang terdiri dari P₀: Pakan komersial. P₁: Pakan komersial + *Bacillus coagulans* 0,2%. P₂: Pakan komersial + *Saccharomyces cerevisiae* 0,2%. P₃: Pakan komersial + *Bacillus coagulans* 0,1% + *Saccharomyces cerevisiae* 0,1%. Peubah yang diukur yaitu konsumsi pakan dan pertambahan bobot badan harian (PBBH). Analisis data yang dilakukan menggunakan analisis variansi (ANOVA). Hasil penelitian menunjukkan bahwa rata-rata jumlah konsumsi pakan 92,8 sampai 108,5 g/ekor/hari dengan nilai rata-rata 102,3±12,32 g/ekor/hari dan hasil rata-rata PBBH 54,5 sampai 61 g/ekor/hari dengan nilai rata-rata 60,1±8,45 g/ekor/hari. Hasil ANOVA berpengaruh tidak nyata ($P>0,05$) terhadap konsumsi pakan dan PBBH ayam broiler. Berdasarkan hasil penelitian dapat disimpulkan bahwa pemberian probiotik mono dan multi strain yang terdiri dari *Bacillus coagulans* dan *Saccharomyces cerevisiae* dan gabungan kedua probiotik tersebut belum dapat mengoptimalkan konsumsi pakan dan meningkatkan pertambahan bobot badan harian ayam broiler.

Kata Kunci: Ayam Broiler Jantan, Probiotik Mono Strain, Probiotik Multi Strain, Konsumsi Pakan Ayam Broiler, PBBH Ayam Broiler

ABSTRACT

ARDIAN DWI CAHYANTO, The research "The Effect of Mono and Multi-Strain Probiotics on Feed Consumption and PBBH of Broiler Chickens Raised in Open Cages" was conducted on July 5 - August 12, 2024, at the Experimental Farm, Faculty of Animal Husbandry, Jenderal Soedirman University. The purpose of this study was to examine the effect of adding multi-strain probiotics (*Saccharomyces cerevisiae* and *Bacillus coagulans*) in feed on feed consumption and daily body weight gain of broiler chickens. This study used 100 male chickens that had been selected for uniform body weight. The research design used was a completely randomized design consisting of 4 treatments and 5 replications, resulting in 20 experimental units. Each experimental unit consisted of 5 broiler chickens. The treatments given were the administration of mono and multi-strain probiotics in feed consisting of P0: Commercial feed. P1: Commercial feed + 0.2% *Bacillus coagulans*. P2: Commercial feed + *Saccharomyces cerevisiae* 0.2%. P3: Commercial feed + *Bacillus coagulans* 0.1% + *Saccharomyces cerevisiae* 0.1%. The variables measured were feed consumption and daily body weight gain (DWG). Data analysis was performed using analysis of variance (ANOVA). The results showed that the average feed consumption was 92.8 to 108.5 g/head/day with a mean value of 102.3 ± 12.32 g/head/day and the average DWG was 54.5 to 61 g/head/day with a mean value of 60.1 ± 8.45 g/head/day. ANOVA results had no significant effect ($P > 0.05$) on feed consumption and DWG of broiler chickens. Based on the research results, it can be concluded that the administration of mono and multi-strain probiotics consisting of *Bacillus coagulans* and *Saccharomyces cerevisiae* and a combination of the two probiotics has not been able to optimize feed consumption and increase daily body weight gain in broiler chickens.

Keywords: Male Broiler Chicken, Mono-Strain Probiotics, Multi-Strain Probiotics, Broiler Chicken Feed Consumption, Broiler Chicken PBBH