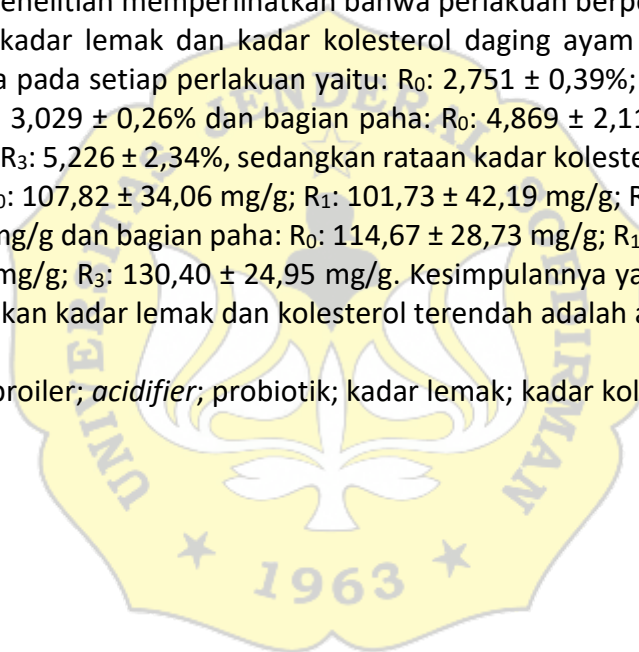


ABSTRAK

Wira Adi Herlambang. Penelitian berjudul Pengaruh Penggunaan Berbagai *Acidifier* sebagai *Feed Additive* dalam Pakan yang Mengandung Probiotik terhadap Kadar Lemak dan Kolesterol Daging Ayam Broiler. Penelitian dilaksanakan di *Experimental Farm* Fakultas Peternakan, Laboratorium Ilmu Nutrisi dan Makanan Ternak, dan Laboratorium Pertanian Terpadu Universitas Jenderal Soedirman. Materi yang digunakan meliputi ayam broiler *strain* CP 707 sebanyak 200 ekor. Penelitian ini terdiri dari 4 percobaan dan setiap percobaan diulang sebanyak 5 kali, setiap unit percobaan terdiri dari 10 ekor ayam. Percobaan yang dilakukan meliputi: R₀: Pakan basal; R₁: Pakan basal + 1% *acidifier* asam sitrat; R₂: Pakan basal + 1% *acidifier* asam laktat; R₃: Pakan basal + 1% *acidifier* asam format. Pengaruh perlakuan terhadap peubah respon, diuji menggunakan Rancangan Acak Lengkap (RAL), perlakuan yang berpengaruh nyata akan dilanjutkan dengan uji Beda Nyata Jujur (BNJ). Hasil penelitian memperlihatkan bahwa perlakuan berpengaruh tidak nyata ($P > 0,05$) terhadap kadar lemak dan kadar kolesterol daging ayam broiler. Rataan kadar lemak bagian dada pada setiap perlakuan yaitu: R₀: $2,751 \pm 0,39\%$; R₁: $3,187 \pm 0,79\%$; R₂: $2,584 \pm 0,39\%$; R₃: $3,029 \pm 0,26\%$ dan bagian paha: R₀: $4,869 \pm 2,11\%$; R₁: $4,166 \pm 2,04\%$; R₂: $3,637 \pm 0,93\%$; R₃: $5,226 \pm 2,34\%$, sedangkan rata-rata kadar kolesterol bagian dada setiap perlakuan yaitu: R₀: $107,82 \pm 34,06$ mg/g; R₁: $101,73 \pm 42,19$ mg/g; R₂: $80,31 \pm 17,13$ mg/g; R₃: $87,80 \pm 19,95$ mg/g dan bagian paha: R₀: $114,67 \pm 28,73$ mg/g; R₁: $105,70 \pm 21,66$ mg/g; R₂: $95,03 \pm 21,03$ mg/g; R₃: $130,40 \pm 24,95$ mg/g. Kesimpulannya yaitu jenis *acidifier* yang mampu menghasilkan kadar lemak dan kolesterol terendah adalah asam laktat.

Kata kunci: ayam broiler; *acidifier*; probiotik; kadar lemak; kadar kolesterol



ABSTRACT

Wira Adi Herlambang. The research titled The Influence of Various Uses of Acidifier as Feed Additive in Feed Containing Probiotics on Fat and Cholesterol Levels of Broiler Chicken Meat. The research was conducted at the Experimental Farm, Faculty of Animal Husbandry, Laboratory of Nutrition and Animal Feed Sciences, and the Integrated Agriculture Laboratory of Jenderal Soedirman University. The research used 200 day-old-chick CP 707 broiler chickens. The study has 4 treatments and each treatment was replicated by 5 times, each replication consisted of 10 chickens. The treatments are: R₀: basal feed; R₁: basal feed + 1% citric acid ; R₂: basal feed + 1% lactic acid ; R₃: Basal feed + 1% formic acid. The influence of treatment to the variable's response, analyzed using Completely Randomized Design (CRD), the treatments that have significant effect will analyzed using Honestly Significant Difference test (HSD). The results showed that treatment not significantly effected ($P > 0,05$) to the fat and cholesterol levels of broiler chicken meat. The average fat level of breast part for each treatment is: R₀: $2,75 \pm 0,39\%$; R₁: $3,18 \pm 0,79\%$; R₂: $2,58 \pm 0,9\%$; R₃: $3,03 \pm 0,26\%$ and thigh part is: R₀: $4,87 \pm 2,11\%$; R₁: $4,17 \pm 2,04\%$; R₂: $3,64 \pm 0,93\%$; R₃: $5,23 \pm 2,34\%$, and the average cholesterol level of breast part for each treatment is: R₀: $107,82 \pm 34,06$ mg/g; R₁: $101,73 \pm 42,19$ mg/g; R₂: $80,31 \pm 17,13$ mg/g; R₃: $87,80 \pm 19,95$ mg/g and thigh part is: R₀: $114,67 \pm 28,73$ mg/g; R₁: $105,70 \pm 21,66$ mg/g; R₂: $95,03 \pm 21,03$ mg/g; R₃: $130,40 \pm 24.95$ mg/g. The conclusion is the variance of an acidifier that can produce the lowest levels of fat and cholesterol is lactic acid.

Keywords: broiler chicken; acidifier; probiotic; fat level; cholesterol level

