



Effect Of Fermentation On Chicken's Feed Traditional Ciamis

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Abstract

Research on the use of fermented feed on the growth of broiler chickens have been done. This research was conducted in several stages. In the first phase, conducted by making two kinds of feed composition. Feed that is used consists of three types. Commercial feed / CP is used as feed to the next standard. Feed I is the composition of traditional food using bran, fish meal, corn, white turmeric, saffron, garlic, brown sugar, charcoal, wood or a variation called ciamis feed. Feed II is a traditional feed fermentation and has a composition similar to feed I, but corn, bran, and fish meal fermented beforehand. Bran fermentation used suspension mold *Aspergillus niger* spores as much as 10% of the total weight of bran that has been steamed for 30 minutes for sterilization. Corn seed fermentation used liquid *Lactobacillus acidophilus* bacteria as much as 10% of the total weight of corn which has been steamed for 30 minutes for sterilization. Fish flour fermentation used liquid seed *B.subtilis*, *L.plantarum*, *Z.rouxii*, *R.rubra* as much as 10% in the ratio 1:1:1:1. Proximate testing includes protein test, fat test, test levels of crude fiber, test levels of ash, moisture content tests performed on each feed and the meat test. The second stage is a test of the chicken feed. The number of chickens used approximately 750 chickens with an average initial weight about 37 grams and for four weeks. The widely cage is used reaches approximately 111m². Before DOC (Day Old Chick) in, the cage was prepared by cleaned first with a broom, washed with a sprayer to spray the floors, walls, ceilings and calcification. Sanitation of equipment include cage's floor, food can and water can, and given 5-7 cm the thick husks on the floor. Finally, the cage was given PK and formalin for 3-4 days and then discarded gas. For the new DOC comes comfortable, temperature is raised with artificial heating. feeding performed three times a day continuously, the composition and the quantity adjusted to the age of chicken. The results of laboratory IPB tests, for the protein content in CP feed, 22.79%, feed I 12.69%, feed II, 21% with a standard protein 20%. For the fat, CP feed, 8.11%, feed I, 3.38%, feed II, 3.57% with a maximum standard of fat 7%. For crude fiber content, CP feed, 3.91%, feed I, 4.23%, feed II, 3.95% with a standard crude fiber 5%. For ash content, CP feed, 5.63%, feed I, 2.99%, feed II, 2.99% with a standard 5%. For water content, CP feed, 8.13%, feed I, 10.83%, feed II, 11.85% with a

standard 11-13%. Average Final weight chicken to feed CP 1400 grams, 100.8 grams of feed I, II, 97.8 grams of feed.

Keywords : fermentation, proximate test, broiler chicken

Pengaruh Fermentasi Pakan Tradisional Ciamis

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Abstrak

Penelitian tentang penggunaan pakan fermentasi terhadap pertumbuhan ayam broiler telah dilakukan. Penelitian ini dilakukan dalam beberapa tahap. Pada tahap pertama, dilakukan pembuatan pakan dengan dua macam komposisi. Pakan yang digunakan terdiri dari tiga jenis. Pakan komersil / CP merupakan pakan yang selanjutnya dijadikan standar. Pakan I merupakan pakan tradisional yang komposisinya menggunakan dedak, tepung ikan, jagung, kunyit putih, kunyit, bawang putih, gula merah, arang kayu atau disebut pakan variasi ciamis. Pakan II merupakan pakan tradisional fermentasi dan memiliki komposisi sama dengan pakan I, namun jagung, dedak, dan tepung ikan difermentasi terlebih dahulu. Fermentasi dedak digunakan suspensi spora kapang *Aspergillus niger* sebanyak 10% dari total berat dedak yang telah dikukus selama 30 menit untuk sterilisasi. Fermentasi jagung digunakan bibit cair bakteri *Lactobacillus acidophilus* sebanyak 10% dari total berat jagung yang telah dikukus selama 30 menit untuk sterilisasi. Fermentasi tepung ikan digunakan bibit cair *B.subtilis*, *L.plantarum*, *Z.rouxii*, *R.rubra* sebanyak 10% dengan perbandingan 1:1:1:1. Pengujian proksimat meliputi uji protein, uji kadar lemak, uji kadar serat kasar, uji kadar abu, uji kadar air dilakukan pada masing-masing pakan dan proksimat pada daging. Tahap ke dua merupakan uji pakan pada ayam. Jumlah ayam yang digunakan sekitar 750 ekor dengan berat awal rata-rata 37gr dan lama pengerjaan sekitar empat minggu. Luas kandang yang digunakan mencapai kira-kira 111m². Sebelum DOC(*Day Old Chick*) masuk, kandang terlebih dahulu dipersiapkan dengan dibersihkan dengan sapu, dicuci dengan sprayer dengan menyemprot lantai, dinding langit-langit dan pengapuran. Sanitasi terhadap peralatan kandang meliputi lantai, tempat pakan dan air minum, dan diberi sekam pada lantai setebal 5-7 cm kemudian didisinfektan. Terakhir, kandang diberi PK dan formalin selama 3-4 hari lalu gas dibuang. Agar DOC yang baru datang terasa nyaman, suhu kandang dinaikkan dengan diberi panas dengan pemanas buatan. Pemberian pakan dilakukan tiga kali sehari secara kontinyu, komposisi serta kuantitasnya disesuaikan dengan umur ayam. Hasil uji proksimat laboratorium gizi masyarakat IPB, untuk kandungan protein pada pakan CP, 22,79%, pakan I 12,69%, pakan II, 21 % dengan standar protein 20%. Untuk kadar lemak, pakan CP, 8,11%, pakan I, 3,38%, pakan II, 3,57% dengan standar lemak maksimum 7%. Untuk kadar serat kasar, pakan CP, 3,91%, pakan I, 4,23%, pakan II, 3,95% dengan standar

serat kasar 5%. Untuk kadar abu, pakan CP, 5,63%, pakan I, 2,99 %, pakan II, 2,99% dengan standar 5%. Untuk kadar air, pakan CP, 8,13%, pakan I, 10,83%, pakan III, 11,85% dengan standar 11-13%. Berat akhir rata-rata ayam untuk pakan CP 1400 gr, pakan I 100,8 gr, pakan II 97,8 gr.

Kata Kunci : fermentasi, uji proksimat, ayam broiler.