THE EFFECT OF BACILLUS SUBTILIS PROBIOTIC ADMINISTRATION ON THE BLOOD PROFILE OF BROILER CHICKENS

Erwin Hasan Basri
Study Program of Poultry Business Management
Department of Animal Husbandry

ABSTRACT

Use antibiotics on broiler chicken can result in residue bacteria pathogen to meat and impact negative by consumers, so needed alternative for replacement antibiotics that is probiotics. Study this for knowing health given broiler chicken probiotics Bacillus subtillis on feed through observation profile blood. Study this carried out in the district Jember on July 3 – August 5, 2021, with use 25 tails 32 day old broiler chicken. Study this use method experiment with design Random Complete (CRD) with 5 treatments and 5 replicates (1 tail chicken in every treatment and repetition). Every sample taken blood through axillary vein then the data is analyzed with Analysis of Variance (ANOVA). If results different real (P< 0.05), then next with Real difference smallest (BNT). Treatment given is added feed probiotics with composition, P0 (without probiotics), P1 (0.05 % probiotics), P2 (0.10% probiotics), P3 (0.15 % probiotics), and P4 (0.20 % probiotics). Observed parameters that is profile blood complete. Based on study this gift probiotics Bacillus subtillis influence significant (P<0.05) against rate means cospuscular volume (MCV), administration probiotics could suppress anemia in erythrocytes with help absorption energi and protein needed in formation erythrocytes . However in study this gift probiotics no take effect real to profile blood on generally (P>0.05), this because gift probiotics until level 0.20% not yet capable in push development bacteria pathogens, so appearance agent disease that causes change profile blood. Because that need existence addition more dose tall in gift probiotics for performance probiotics to health broiler chickens can be optimal.

Keywords : *Broiler Chicken, Probiotics, Bacillus subtilis, Chicken Blood Profile*