## The effects of native chicken strains and feed addives on immunity, kidney functions, and blood protein

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Abstract	This study aimed to investigate the interactions between chicken strains and supplementation of feed additives, and the efficacy of the interactions for improving immunity, kidney function, and blood protein of native chicken. Research materials were 480 chickens of different strains including kampung chicken, KUB chicken (Balitbangtan superior native), and Kedu chicken. Basal feed offered to the chickens contained 3,118.95 kcal/kg energy and 19.2% crude protein. The research was conducted in a factorial completely randomized design, utilizing 12 treatments and four replicates. The data were sub-jected to analysis of variance, followed by the Honestly Significant Difference Test (HSD). The analy-sis of variance showed that the interactions between chicken strains and 1% supplementation of feed additives were not significantly different (P>0.05) across all parameters, but chicken strain significant-ly affected (P<0.05) antibody titers against Al and ND, as well as lymphocyte infiltration in the lamina propia ileum. KUB chickens had a higher level of immunity than that Kedu chickens. Supplementation of 1% feed additives tends to improve the level of immunity as reflected by the increased titers against Al and ND after vaccination, as well as the undisturbed kidney functions. Conclusively, the interac-tions between chicken strains and the supplementation of 1% feed additives into basal feed produced relatively similar results. Meanwhile, KUB chickens showed better immunity than kampung chickens and Kedu chickens. Supplementing feed additives (garlic and kalimun) showed relatively effective re-sults in improving antibody titers against Al and ND, so it is necessary to increase the supplementation dosage to enhance significant immunity.
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