

## **THE EFFECT OF ELECTROLYTE AND MULTIVITAMIN SUPPLEMENT ON DUODENUM HISTOPATOLOGY OF HEAT STRESSED BROILER**

Frederikha Kusuma Wardhani

### **ABSTRACT**

The purpose of this study was to analysed the effect of multivitamine and electrolyte supplementation on duodenum heat stressed broiler. Twenty broilers with 3 weeks of ages were divided equally into four different groups and each group consist of 6 and separated into 2 different chamber ( A and B ). One group ( control=P0 ) was exposured with standart temperature ( 21-23<sup>0</sup>C ) chamber A,while the others (P1 ; P2 ; P3) were caged at high temperature ( 34,5-35<sup>0</sup>C ) chamber B. Group P1 administrated with water, group P2 and P3 administrated respectively with normal electrolyte and multivitamine dose ( 1 gram/ 4 lt water ) and double dose ( 2 gram/ 4 lt water ).Seven teen days after treatmen, all broilers were sacrificed for small intestine histopathology examination. Collected data for small intestine histopathological changes was analysed through Kruskal-Wallis test. This study showed that double dose supplementation of multivitamin and electrolyte can inhibit the changes of small intestine pathology on heat- stressed broiler.

**Keywords:** Heat stress; multivitamine and electrolyte