

## **The Effect of the Earthworm (*Lumbricus rubellus*) as the Source of Protein Feed and Pathogen Antibacterial for Broiler**

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**Abstract :** Broilers are chickens which are kept with the most efficient time and hoped get a good body weight. All things are done, for example with the improvement of feed and use antibiotics. Feed cost is the most cost to be spent. Nearly 80% of the cost is spent just for buy feed. Earthworm (*Lumbricus rubellus*) is a good choice to reduce the cost of feed protein source. The Earthworm has a high crude protein content of about 48.5%-61.9%, rich with proline amino acid about 15% of the 62 amino acids. Not only about protein, this earthworm also has a role in disease prevention. Prevention of disease in livestock usual with use feed supplement. Earthworm (*Lumbricus rubellus*) is one of the natural materials used as feed. In addition, several types of earthworms that have been known to contain active substances about antibacterial pathogens namely *Lumbricus rubellus*. The earthworm could be used as an antibiotic because it contain the antibody of Lumbricine active substance. So that, this animal feed from *Lumbricus rubellus* could improve the performance of broilers. Bioactive of anti-bacterial is called Lumbricine able to inhibit the growth of pathogenic bacteria in the intestinal wall so that the population of pathogenic bacteria is reduced. The method of write in this scientific writing is divided into 3 techniques, namely data completion, data analysis, and thinking pan from various literature about earthworm (*Lumbricus rubellus*) as broiler feed. It is expected that innovation of feed material of earthworm (*Lumbricus rubellus*) could reduce the cost of protein feed and the use of chemical antibiotics.

**Keywords :** earthworm, broiler, protein, antibiotic

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