

**IN VIVO EFFICACY OF GARLIC (*Allium sativum*) VACUUM FREEZE DRY IN THE  
DETECTION LEVEL OF ANTI-BODIES AND HEMATOLOGY AGAINST  
*Mycoplasma gallisepticum* IN NATIVE CHICKENS**

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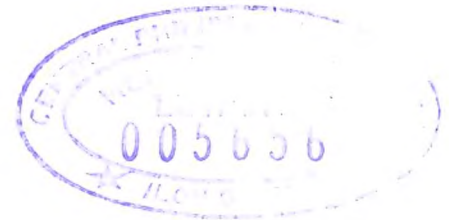
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By

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**ABSTRACT**

*Mycoplasma gallisepticum* is the most significant avian *Mycoplasma* species and is responsible for substantial financial losses. Antibiotics are widely used to prevent or control such infections, but if these practices are continued, bacteria may develop resistance. It has been identified that an antibiotic produced from natural source is equally efficient in battling these diseases that has been discovered. Thus, this study was conducted to determine the efficacy vacuum freeze-dried garlic (*Allium sativum*) against *Mycoplasma gallisepticum*- infected native chicken in terms of the development of antibodies and enhancement of blood samples for hematology before and after two weeks of post-exposure. The collected data was analyzed using the ELISA microplate reader and hematology analyzer. The result from the study indicated that it did not affect the presence of the antibodies of native chickens while the blood parameters of hematology greatly enhanced the availability white blood cell, lymphocyte, red blood cell, hemoglobin, hematocrit, mean corpuscular volume, mean corpuscular hemoglobin and mean corpuscular hemoglobin concentration. The data recorded increases within the reference ranges after treated with vacuum freeze-dried garlic. Hence, the use of vacuum freeze-dried garlic on *Mycoplasma gallisepticum*- infected native chickens significantly affects the blood parameters for hematology only.

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