

ANTIBODY RESPONSE AND PROTECTIVITY IN CHICKENS AFTER VACCINATION WITH ND LV12 ACTIVE VACCINE

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ABSTRACT

The purpose of this study was to determine the antibody response and protectivity in chickens after vaccination using an active ND LV12 lentogenic vaccine. This study used 10 chickens as experimental animals, in which 7 chickens are given ND LV12 lentogenic active vaccine and 3 chickens are given physiological NaCl solution. Vaccination was performed 2 times at the age of 3 weeks and 5 weeks. Whereas blood sampling performed 3 times at the age of 3 weeks, 5 weeks and, 7 weeks. The method used for antibody titration was HI test. An age of 8 weeks, all chickens were challenged with virulent ND virus. The result shows an increasing in antibody level with HI-titers ($\log_2 \geq 9,43$) after vaccination. On challenge test, the vaccine provided 100% protection in chickens. Therefore, it is suggested for further research in field trial under natural condition.

Key Words: HI test, Newcastle Disease, response antibody, vaccine.

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