Antibody Response and Protectivity in Chickens After Vaccination With Nd Lv12 Active Vaccine

Abstrak :

The purpose of this study was to determined 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 was challenged with velogenic ND virus. The result shows an increasing in antibody level with HI-titers (log 2) > 9.43 after vaccination. On challenge test, the vaccine provide 100% protection in chickens. Therefore, it is suggested for further research in field trial under natural condition.

Keyword :

HI test, New Castle Disease, Active Vaccine

Daftar Pustaka :

Hsiang jung, T.S.A, and L. Dih-Fa Evaluation of the Protection Efficacy of Newcastle Disease Vaccination Programs. Department of Veterinary Medicine National Taiwan University. 35-41 2000 Taiwan
Kapczynski, D.R. and D.J. King Protection of Chickens Against Overt Clinical Disease and Determination of Viral Shedding Following Vaccination With Commercially Available Newcastle Disease Virus Vaccines Upon Challenge With Highly Virulent Virus From the California 2002 exotic Newcastle Disease Outbreak Vaccine. 23: 3424-3433. 2005 United States