Studies on the Adjuvants for Inactivated Newcastle Disease Vaccines

Nada Adel Fadlly El Sayed, Mohamed Sami Saber Mohamed, Ismail Mohamed Refa, Afaf Hamdy Amia,

Cairo University
Giza, Egypt


Abstract

Preparation of inactivated oil NDV vaccine using different new oil adjuvants Montanide ISA 70 VG, ISA 763A VG and ISA 775 oil adjuvants in comparison with paraffin oil. The prepared vaccines with Montanide ISA 70 VG, 763AVG & 775VG were high in antibody titers than vaccines prepared with paraffin oil when determined by 3 different serological tests (HI, SNT, QAGPT). The highest titer observed in prepared vaccine by ISA70 VG oil adjuvant after 3 weeks post vaccination & remained high till 12 weeks post vaccination and has long duration of immunity reached to 12 month With protective antibody titer and protection against challenge While prepared vaccine by Mantonide ISA 763 AVG oil adjuvant reached 10 month and 9 months with montanide ISA 775, but in paraffin reached to 5 month with protective antibody titer

Keywords
oil NDV vaccine, paraffin oil, serological tests, vaccination, antibody titers,