

ISOLATION AND IDENTIFICATION OF REOVIRUS FROM CHICKEN

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ABSTRACT

Hook joints of broiler chicken with arthritis from the farms in many provinces of Thailand were isolated for the causative agent. These joints were ground, filtered, and cultured in embryonated chicken eggs using chorioallantoic membrane and allantoic cavity routes. Numerous pocks with small size were found on chorioallantoic membrane using chorioallantoic membrane route, while some of dead embryos were found using allantoic cavity route. Allantoic fluid from the dead embryos was grown in chick embryo fibroblast cells. Cytopathic changes followed by detachment of cells from the surface and cell rounding with syncytium formation were observed. Electronmicroscopy studies of these cells showed the virus to be 75 nm in diameter with inner and outer capsids in the cytoplasm of infected cells.