

## PHYLOGENETIC ANALYSIS OF INFECTION BURSAL DISEASE VIRUS STRAINS

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**Summary.** A reverse transcriptase-polymerase chain reaction procedure was used to amplify a VP2 gene fragment from infectious bursal disease virus (IBDV) in Fabricius bursae of broiler chickens. In the samples were found four isolates (*IBV-1*, *IBV-2*, *IBV-3* and *IBV-4*) of IBDV. The isolates *IBV-1*, *IBV-2* and *IBV-3* were of vaccine origin. i. e. homologous to the vaccine strain “*Gumboral*” and “*MB*”. However, isolate *IBV-4* distinctly differed from the antigen varieties of classical vaccine pathogenic IBDV strains isolated in USA and in geographically close to Lithuania countries — different areas of Russia and Byelorussia. The results of phylogenetic analysis have shown that isolate *IBV-4* is endemic.

**Keywords:** infectious bursal disease virus, VP2, phylogenetic analysis.