

COMPATIBILITY INVESTIGATION OF MAREK'S AND GUMBORO VACCINE VIRUS STRAINS IN VIVO

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Summary. Clinical manifestations of Marek's disease (MD) causing death of birds occur already at the end of the fourth week of their life. The level of maternal antibodies against Gumboro disease (GD) in chickens begins to fall down immediately after hatching and disappear on the 21-28 day of life. Maternal antibodies do not protect from GD viruses circulating in flocks. Raising of poultry under the same technological conditions and following the same cyclograms revealed the air virulence of MD and GD viruses changes – in some cases becoming even higher. The experiment included vaccination of one day old chickens with vaccine virus strains. After the vaccination not a single bird got infected with MD or GD viruses. ELISA test revealed a sufficient level of antibodies against GD viruses.

Keywords: Gumboro disease, Marek's disease, vaccine efficacy.