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TESTING THE ACTION OF YEAST ENZYME COMPLEX ON THE REPLICATION OF RNA ON VIRUS INFLUENZA A/PR₈. A.Uzunova, P.Petkov, N.Stoeva. Institute of microbiology, Bulgarian Academy of sciences, Sofia, Bulgaria

In earlier studies of ours we established the antiviral action of the yeast enzyme complex containing ribonuclease, phosphodiesterase and phosphomonoesterase on the reproduction of certain influenza, parainfluenza and RS viruses. The aim of the work undertaken was to study the action of the enzyme complex/EC/ on the reproduction of the virus specific RNA on the virus influenza A/PR₈ in MK/monkey kidney/ cell cultures. The results obtained upon registering the differences between the EC treated virus RNA and controls/untreated/. These results suggest that to all probability, the mechanisms of the antiviral action of the yeast enzyme complex are consistent and can be related to the action of the ribonuclease on the virus specific RNA.

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RESISTENCE OF PARAINFLUENZA VIRUS I INDUCED BY TREATMENT WITH YEAST ENZYME COMPLEX. A.Uzunova, P.Petkov and M.Balashova. Institute of microbiology, Bulgarian Academy of sciences, Sofia, Bulgaria

The antiviral effect of a yeast enzyme complex containing ribonuclease, phosphodiesterase and phosphomonoesterase has been established with respect to the reproduction of parainfluenza virus I in cell cultures MK /monkey kidney/ using the plate test. The results from the experiments on induction of resistance showed that the virus populations were not homogeneous when the sensitivity to the inhibitory effect of the enzyme complex was tested and 20% of them remained resistant in the presence of 10 mg/ml of the complex upon infection with the virus in the course of 5-8 passages.