

ABSTRACT

In this diplomatic work took place the determination of BamHI cloning departments of genome of Herpes simplex virus 1, strain S, which is characterized by a unique specific mutation in the codon 787, which is accountable for the creation of big plates with syncytiums in cell cultures. Mapping of cloning departments of genome of Herpes simplex virus 1, strain S is judged essential, because each virus is known that it has his own phenotype. This means that in each virus is different the gene that influences his way of expression in in the cell.

In addition in this work we studied the phenomenon of the syncytiums' creation in RSC and Vero cells. For this reason took place co – transfection on RSC cells simultaneously with HSV – 1(F), the wild type of HSV – 1, and the PCR product (739 bp) and then titration on Vero cells. The cell in which becomes the import of virus plays a lot important role. There are cellular orders in which phenotypical the fusion it appears macroscopically via syncytiums that are created. There are, however, and cellular orders in which phenotypical the fusion is not able to appear macroscopically via syncytiums.