
Inhibition of some restriction sites used to assess the specificity of interaction of an inserting agent with DNA

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SUMMARY

The purpose of this paper is to evaluate the interaction specificity between an inserting agent and the DNA.

We used an experimental model, which used violamycin D1 and synthetic polynucleotides. The parameters of quality and quantity characteristic to the inserting complexes were determined with spectrophotometric methods and by electrophoresis. The insertion complexes DNA-violamycin were restricted enzymatically, to observe the difference in the cutting sites for the used enzymes. The results show that violamycin (ligand) has a great affinity for the base pairs A-T, modifying the physical and chemical properties of the studied DNA.

Keywords: DNA, inserting agent, interaction, affinity