

Nanoassociates Are The Material Carriers Of Bio-Effects Manifested By High Diluted Water Solutions Of Bac

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Nanoassociates are nanosized (up to 400 nm) molecular ensembles, which are formed in high diluted water solutions (HDWS) of BAC under influence of two effectors: solutes and external (natural) electromagnetic fields – and consist of water molecules mainly (up to 500 millions).

Formation of nanoassociates designate both physicochemical and (it is very important) biological properties of HDWS

The manifestations of bio-effects of HDWS in their dependence with formation of nanoassociates were studied.

As examples it was investigated the influence of HDWS of potassium phenosan on the change of microviscosity of the lipid membranes from the brain of mice and melaphen on the change of mitochondrial morphology of pea sprout. It was shown that bio-effects are observed, but they exist only when the nanoassociates are formed in the solutions, namely in usual condition. In the hypoelectromagnetic conditions when the nanoassociates are not formed bio-effects are absent. It was concluded that nanoassociates are the material carriers of bio-effects manifested by high diluted water solutions of BAC.

Investigation of solutions by dynamic light scattering method in wide range of solutes concentrations was made. The results obtained stand question about the necessity of systematical investigations of solutions by this method and detail analysis of nano-objects formed there.