UTILIZATION OF ULTRAVIOLET RADIATION OF COLD HOLLOW CATHODE DISCHARGE PLASMA FOR WATER DISINFECTION

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S u m m a r y

We present the results of experimental studies of the peculiarities of the inactivation of *Escherichia coli* water suspension by ultraviolet (UV) radiation of the plasma of a glow discharge with hollow cathode in different gaseous media. It is shown that the efficiency of the inactivation by UV of the discharge plasma in oxygen, mixtures of oxygen with deuterium, and water vapor is essentially higher than that of the discharge in air, as well as the discharge in a low-pressure mercury lamp.