MICROSHOCK WAVE PARAMETERS IN WATER DURING THE SHOCK WAVE BACTERIAL TRANSFORMATION

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Abstract: The article presents the results of measurements of the microshock waves parameters in the liquid during bacterial transformation of *Escherichia coli* in standard test *Eppendorf* tubes. The end of a *Nonel* shockwave tube, being placed over the brass diaphragm, contacting with the test liquid, is served as a source of a hydroshock wave. The measurements were conducted using piezoelectric film pressure sensors. It is shown that the amplitude of the waves observed in liquid is in the range of 35–37 MPa. The conducted measurements are consistent with the hydroshock wave parameters at bacterial transformation by the other methods.

Keywords: microshock wave; hydroshock wave; bacterial transformation; PVDF-film pressure transducer

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