DEFINITION OF DISTRIBUTION FUNCTIONS OF ULTRADISPERSION MEDIUMS WITH THE AID A SCATTERING OF LASER RADIANCE

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Definition of properties of material by a scattering of radiance is the important problem with which connected series of medicobiological and physicochemical tasks .

This work is devoted a methodical questions application of multipurpose analytical system (laser cytomonitor) on biological objects. Cell volume is important parameter of a function and structural state of cell [1]. As model systems have been chosen normal erythrocytes in solutions different hypertonic and hypotonic mediums. The method of laser cytomonitor allows to receive a size distribution functions of cells and to trace their time evolution with the high time resolution.

Distribution functions of erythrocytes defined with the help of a lazer light-scattering depend on osmose of incubating medium. Volume received by a method cytomonitoring was compared with actual volume of cells. The calibration curves were constructed on the basis of it. Influence of change of the cell shape was tested also on results of gauging of on volume of erythrocytes. Results obtained in the given work show, that the method laser cytomonitoring is sensitive to change of volume of erythrocytes in hypertonic and hypotonic mediums.

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