

Название публикации:

Technological processes for obtaining monolithic polydisperse protein-base systems

Авторы:

Parshina, S.A.a, Sokolov, A.Y.b, Savchenko, E.O.b

- a) Moscow Polytechnic University, B. Semyonovskaya St., 38, Moscow, Russian Federation
- b) Plekhanov Russian University of Economics, Stremyannyi lane, 36, Moscow, Russian Federation

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Аннотация:

This research addresses the challenges of sustainable use of natural polymers, including in technical fields. One of the leading trends in science and industry headway today lies in designing advanced functional materials, e.g. for manufacturing medical items, technical devices, food-processing tools et al. For this purpose, universally applicable technological processes are being developed, including in biotechnology. One of the main goals of this research is to explore ways to consolidate living systems, by instilling in them desirable physical and chemical properties so as to diversify their applications, including in technical fields. Polymers structure and properties have been investigated via raster electron microscopy, spectral analysis, et al.

Ключевые слова:

Biological compound, Bioreactor, Biotechnology, Collagen, Enzyme, Infrared spectroscopy, Monolithic (product), Polydisperse systems, Polymer, Protein, Technology processes