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Features of lipids deposition on a silicon substrate depending on their composition

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Structural studies of the penetration of nanopreparations through the biological membrane of the cell, as well as detailed studies of the interaction of nanopreparations with the lipid bilayer, have not been carried out. To get a clearer picture of this interaction, it is first necessary to develop a method for applying a model membrane. The purpose of the experiment was to investigate the differences in the precipitation of soybean phospholipids with 80% purity and 100% purity and dimyristoylphosphatidylcholine (DMPC) using the method of time-of-flight neutron reflectometry. The experiment was carried out at the Joint Institute for Nuclear Research on a neutron reflectometer with a horizontal plane of the GRAINS sample. A cell with the possibility of washing was used. Solutions were prepared in heavy water with a phospholipid concentration of 1%.

Summary

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