

**PERSPECTIVES OF MULTILEVEL DISPERSE SYSTEMS USE  
AS DELIVERY SYSTEMS OF ACTIVE COMPONENTS IN COSMETICS**  
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Efficiency of biologically active substances (BAS), as components of cosmetics, substantially depends on form of their inclusion in formulation and essentially raises in nanodisperse delivery systems. Multilevel disperse systems (multiple emulsion) are perspective delivery systems, which provide fast and full entrance of BAS in a skin and have structural and functional similarity with living cell. Therefore creation of stable multiple emulsion and studying of their properties can be considered as the important condition for manufacture of highly effective cosmetics and pharmacological transdermal systems.

In this work we research properties of multiple (W1/O/W2) and reverse (W/O) emulsions of different composition with use of silicone liquids as an oil phase. The changes of properties and structures of these emulsions were investigated under different conditions of storage and at a cyclic freezing-thawing. The reduction of interference of formulation components was shown for their

inclusion in different water phases of multiple emulsions. The ways of inclusion of multiple and reverse emulsion in different cosmetic bases are offered.