ABSTRACT

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Title of Thesis	DSC of lipidic excipients

In this work was evaluated the interaction of the lipidic components with water by using DSC (differential scanning calorimetry). In the first part of this work, we used samples which contained a phospholipid (DMPE). The samples which we used in the second part of the work, contained cutaneous lipids presented by pseudoceramides (14S24 and H6524) and cholesterol.

Our attention was especially payed to the vindication of the existence of different structure organizations of hydrated lipidic components.

By the samples which contained the phospholipid DMPE, we registered the most of the phase transitions presented in the literature on our calorimeter by using slightly modificated conditions.

In similar conditions of the measurement we registered only the crystallization peak from the different phase transitions by the commercially produced pseudoceramide H6524.

By the synthetic pseudoceramide 14S24 by used conditions of the measurement we didn't prove any phase transitions.