

Abstract

Thermotropic behaviour of mixtures of Ceramide (NS) with cholesterol were studied by DSC method and evaluated using IR spectrum of ceramide itself.

Depending on the concentration of individual components there were shifts in melting temperature of the next phase transitions. From the measurements we found the value eutectic mixtures in which the ratio of Ceramide NS / cholesterol was 5:5 after the first heating and 3:7 after second heating.

It was found that hydration also affects the behaviour of thermotropic mixture. The results of IR spectra correlated with the DSC. The temperature at which the IR measurements shown changes of Ceramide (NS) structure was in a good relation with melting temperatures determined by DSC.