

Kopecká Milada – Rigorózní práce – 2006

This work deals with the compatibility of a medical substance with 15 additives using the DSC method. Theoretical part of the work describes thermoanalytical methods, methods of thermal analysis, calorimetric methods and differential scanning calorimetry. Besides the work deals with the crystalline structure of solid compounds. The aim of experimental part of the work was the calorimetric evaluation of the medical substance itself, all additives and mixtures of medical substance with additives. The compatibility was measured by means of DSC 200 PC Netzsch.

The result of the work was to prove the compatibility of the medical substance with lactose, Kopovidone, Povidone 25, silica, mannitol, Emcompress, magnesium stearate, and calcium stearate. Incompatibility was found out between the medical substance and glycerol behenate.