

ABSTRACT

Analytical evaluation of drugs using Chromatographic Methods III.

Thesis

Kristýna Strýčková

**Charles University in Prague, Faculty of Pharmacy in Hradec Králové,
Department of Pharmaceutical Chemistry and Drug Control**

The thesis draws up the optimum chromatographic conditions for the HPLC analysis of fumagillin in honey and the procedure of the isolation of the drug from honey. The optimum results were provided by the analysis on the Tessek column with the Separon SGX NH₂ filling, while using the mobile phase composed of methanol : ammonium acetate (aqueous solution 0.005 mol/l, v/v) in the ratio of 60:40, at a flow rate of 1 ml/min and pressure of 25 to 26 bar. The detection was performed at 335 nm using the UV detector.

The internal standard method was drawn up for the determination of fumagillin in honey. Nimesulid suited the selected conditions most. As far as the validation parameters are concerned, the linearity was verified on the basis of calibration curve.