# ABSTRACT

## HPLC EVALUATION OG FUMAGILLIN IN THE MEDICINE

### Rigorous thesis

Mgr. Kristýna Strýčková

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

In this rigorous thesis is described analytic evaluation of fumagillin by using HPCL and stated the amount of fumagillin in the medicine. The measurment was implemented on chromatographic colony in size 3 x 150 mm I.D. with the Seladon SGX $NH_2$ filling, 7μm. There was used the mobile phase composed of methanol: amonium acteate (aqueous solution 0,005 mol/l, v/v )in the ratio of 60:40, at the flow rate of 1ml/min and pressure of 2,5-2,6 MPa. The detection was performed at 335 nm using the UV detektor. The samples were spraeyd in cubage 20 μ/l.

The international standard method was drawn up for determination of fumagillin in medicine. The most suitable sample from the selected conditions was nimesulid.

Concerning validation parameters were verified linearity, accuracy, robustness, selection and detector limit. Further there was examined the stability in conditions of room temperature and the temperature od 2-8˚C.

It was determined 0,0238 g of fumagillin in 1 g of medicine that is stated as 95,2% of neccessary amount.