

# **Abstract**

## **HPLC analysis of drugs V**

Diploma thesis

Veronika Sochová

Charles University in Prague, Faculty of Pharmacy in Hradec Králové,

Department of Pharmaceutical Chemistry and Drug Control

In this diploma thesis was established the methodology for the evaluation of dexamethasone in biological material using solid phase microextraction and HPLC. For the measurements was used extraction fibre polydimethylsiloxane in combination with divinylbenzene. The fiber was used for microextraction of dexamethasone from water samples and plasma samples. Conditions were optimized for SPME evaluation of dexamethasone and diazepam (internal standard) in plasma sample. Sorption time was 10 minutes, desorption time was 20 minutes to 0,2 ml methanol. Chromatographic conditions – column C<sub>18</sub>, eluent acetonitrile - water, 55:45 (v/v) and detection at a wavelength of 240 nm.