

ABSTRACT

CHARLES UNIVERSITY IN PRAGUE

FACULTY OF PHARMACY IN HRADEC KRÁLOVÉ

DEPARTMENT OF PHARMACEUTICAL CHEMISTRY AND
DRUG ANALYSIS

Name: Šárka Šušková

Supervisor: RNDr. Milan Mokrý, CSc.

Title: HPLC evaluation of selected drugs IX.

This work was focused on optimizing the chromatographic conditions for substances: perindopril erbumine, indapamide, besylatum amlodipine, valsartan and hydrochlorothiazide to develop the same conditions as the analysis in a variety of dosage formulations.

The chromatographic conditions were optimized injection of individual standards and use of such conditions were found to be constituents separated. After each of which elutes at a different time, a composite sample was injected.

Chromatographic behavior thereof at different pH, different concentrations of buffer, and when changing the percentage of the organic component of the mobile phase was evaluated by calculating the weight distribution ratio and its graphic representation according to the change.

Due to the different chemical nature of the analytes was the development of experimentally-consuming chromatographic conditions, nevertheless we managed to search chromatographic conditions equal for all substances: Discovery®HS chromatographic column C18, the mobile phase consisting of methanol as the organic component and phosphate buffer 0,01 M acidified pH 3,5 to 60:40 (v / v) at 40 ° C and a wavelength of 215 nm.