

High performance liquid chromatography is valued analytical method, which is one of the most frequently used in pharmacy.

Biotine is a water soluble vitamin, which is an important element of various enzymes, stuff necessary in metabolism. It part take on metabolism of sugar, fat and protein. It occur in several sort of food, especially in roast, peanut butter, egg yolk, carrot, peas, soya, wheat germ and oat flakes.

This work deals with optimization chromatographic condition on determination of biotine. Its target is to find optimal mobile phase, near which give out best separation biotine from others element in solution, to find internal standard and form hydrodynamic voltammograms, individual at water soluble vitamin.

For determination was used coulometric detector Coulochem III. Analysis overshoot on column Lichrospher 60, RP – select B (240 x 4,0 mm and.d., 5  $\mu$ m), Merck. Mobile phase was composed of acetic acid : acetonitrile ( $\text{CH}_3\text{COOH}$  0,2410 mol/l; pH 3,0) 85: 15. Flow rate was 1ml/min, in temperature 30°C. Current inserted on working electrode was 900 mV, sensitiveness 200mV.