

Abstrakt

Development of stability indicating method for chosen preparation (HPLC determination of benzyl alcohol in vaginal cream)

Graduation thesis

Klára Chmurová

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

The task was to find out a method of simultaneous determination of benzylalcohol and imidazol (decomposition product of main substance of cream – clotrimazole). This thesis is intent on determination of benzylalcohol.

We were looking for proper modification of the pharmaceutical preparation (vaginal cream), then optimisation of chromatographic conditions and validation of this HPLC method also. The best results were obtained with LiChrosphere RP 18,5 μm column (125 mm x 4,6 mm, SUPELCO,), methanol : buffer (solution of 250 ml water, 1,05 ml triethylamine and 0,333g natrium hexasulphonate, pH = 7, set up by 85% H_3PO_4) 30 : 70 (v/v) was used as the mobile phase, flow rate was 1 ml/min. Detection was realised by UV detector with wave length set up on 223 nm. Time of analysis was shorter than 10 min.