## **Abstract**

A method based on capilllary zone electrophoresis (CZE) with UV detection was developed for simultaneous separation and determination of bioflavonoids hesperidin and diosmin. The analysis was performed in a fused silica capillary with effective lenght 60 cm and 50  $\mu$ m I.D. UV detection was used at 207 nm. The optimum separation conditions were found out in this work. Samples were loaded hydrodynamically at a pressure of 50 mbar for 20 s. The background electrolyte consisted of 10 mM phosphate, 40 mM borate buffer with 10% MeOH, 15 mM  $\beta$ -CD (pH\* 8,0) at 25 °C. The separation voltage was +20 kV. Methylparaben was chosen as an internal standard. The calibration dependences were rectilinear in the range from 0,025 to 0,4 mg/ml for hesperidin (R=0,9973) and from 0,05 to 0,8 mg/ml for diosmin (R=0,9987). The single analysis took about 15 min. The method was suitable for determining the bioflavonoids in pharmaceutical preparation Detralex capsules with RSD values 2.4 % (diosmin) and 3.1 % (hesperidin), n=6. The recoveries were from 93,09 to 102,30 % as found by the standard addition technique.