

## Abstract

The laboratory-made apparatus for electrophoretic separations in short capillaries has been tested. The basic functions of the apparatus (separation efficiency, resolution, migration time) have been tested using mixture of  $K^+$  and  $Na^+$  ions. The model mixture of basic amino-acids (arginine, lysine, histidine and its derivatives, 3-methylhistidine and 1-methylhistidine) has also been separated and detected using contactless conductometric detector. Histidine in real sample of urine has also been determined.

Keywords: capillary electrophoresis, short capillary, alkaline aminoacids