ABSTRACT

THIS SHEET HAS BEEN REPLACED

THERMAL-ASSISTED CHEMICAL ETCHING OF CAPILLARY COLUMNS

A simple method for selectively enlarging the bore size of capillaries at predefined positions is provided. The method is based on chemical etching with hydrofluoric acid or other etching substances such as sodium hydroxide. The selective etching on a predefined position of a capillary is achieved by allowing etching solution to flow through the inner bore of the capillary while maintaining the temperature at the predefined section sufficiently higher than at other portion of the capillary. The method can be used to extend the detection zone in capillary electrophoresis fro better detection sensitivity.

Fig.1 & Fig. 2 are to be published

This Sheet Has Been Replaced