

MICROFLUIDIC DEVICE FOR GEL ELECTROPHORESIS AND METHOD OF MANUFACTURING THEREOF

ABSTRACT

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According to embodiments of the present invention, a microfluidic device for gel electrophoresis is provided. The microfluidic device includes a sample channel configured to receive a sample; a stacking channel comprising a preloaded stacking reagent; and a separation channel comprising a preloaded separation reagent, wherein the
10 preloaded stacking reagent has a physical characteristic different from that of the preloaded separation reagent; and wherein the sample channel, the stacking channel and the separation channel are in fluid communication with one another. According to further embodiments of the present invention, a method of manufacturing a microfluidic device for gel electrophoresis is also provided.

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FIG. 3A