MICROFLUIDIC SYSTEM FOR TRAPPING AND DETECTION OF A BIOLOGICAL ENTITY IN A SAMPLE

ABSTRACT

According to embodiments of the present invention, a microfluidic system for detecting a biological entity in a sample volume is provided. The microfluidic system includes: an inlet configured to receive the sample volume; at least one microchannel in fluid communication with the inlet; a magnetic trapping region comprising the at least one microchannel; at least one detection region in fluid communication with the magnetic trapping region for detecting the biological entity to be detected; and at least one outlet in fluid communication with the at least one detection region.

Figure 3A