Lab on a Chip

Supplementary Information

A Nitrocellulose membrane-based Integrated Microfluidic System for Bacterial Detection Utilizing Magnetic-composite-membrane Microdevices and Bacteria-specific Aptamers†

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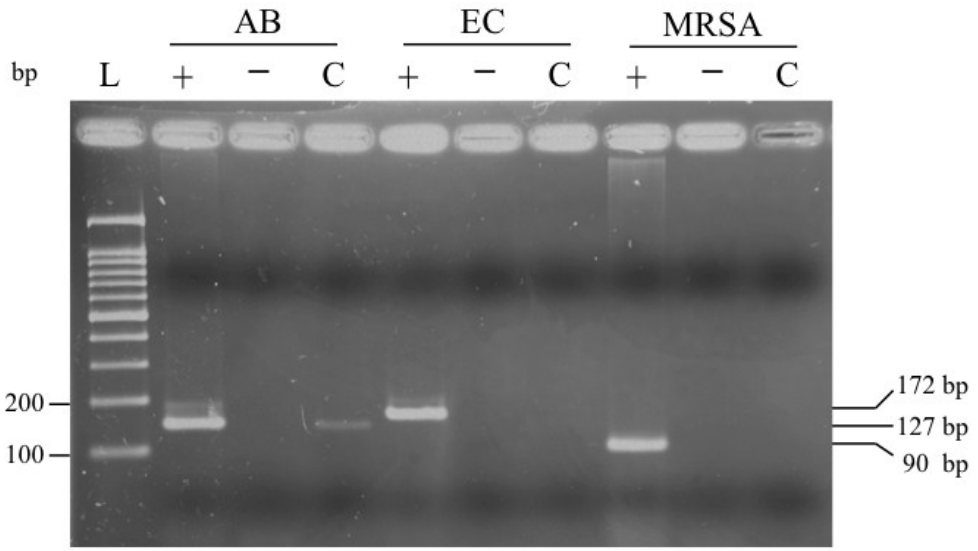

Supplement Figure 1. The specificity tests of the AB-specific aptamer against AB, EC, and MRSA. Lane - = NC, Lane "+"= positive control (genomic DNA extracted from the tested bacteria), and Lane C= specific aptamer-coated beads incubated with the target bacteria: AB, EC, and MRSA and amplified by using target specific primer to generate 127, 172 and 90 bp of PCR products, respectively. *Acinetobacter*

baumannii (AB), *Escherichia coli* (EC), and multidrug-resistant *Staphylococcus aureus* (MRSA) were tested.