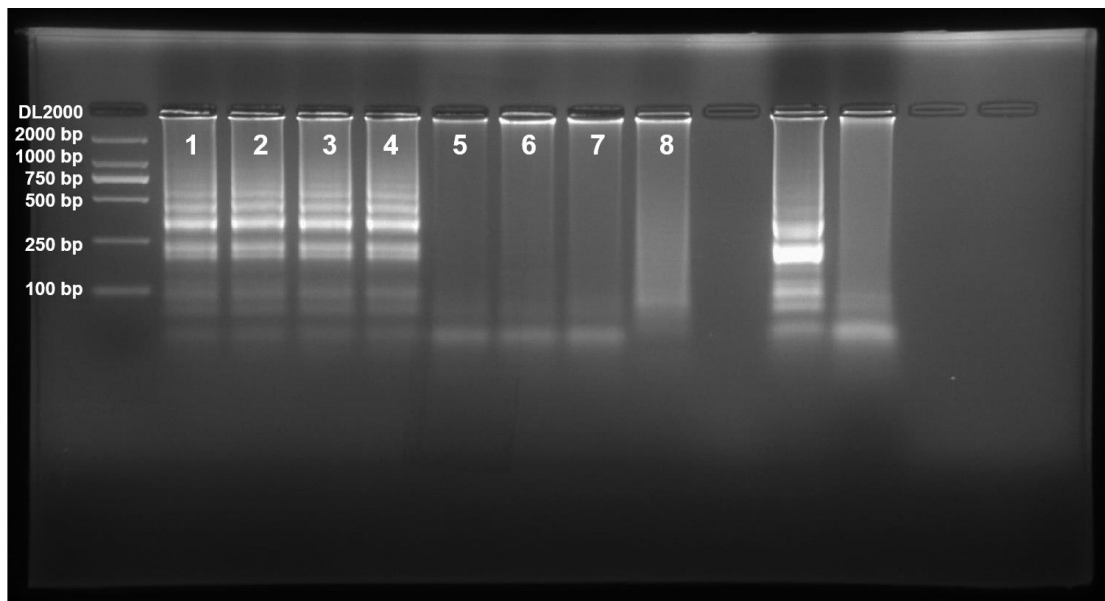Identification of *Acinetobacter baumannii* and its carbapenem-resistant gene *bla*$_{OXA\text{-}23\text{-}like}$ by multiple cross displacement amplification combined with lateral flow biosensor

**Authors:**

Shoukui Hu[1,†], Lina Niu[1,2,†], Fan Zhao[1,†], Linlin Yan[1,†], Jinqing Nong[1], Chunmei Wang[1], Naishu Gao[1], Xiaoxue Zhu[1], Lei Wu[1], Tianhui Bo[1], Hongyu Wang[1], Jin Gu[1*]
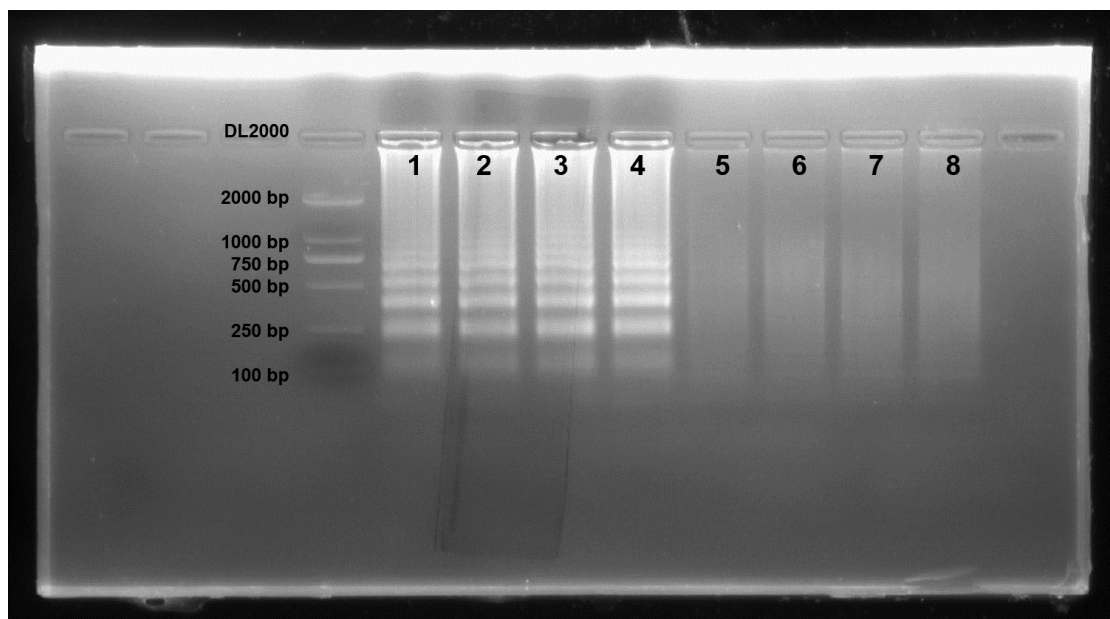
**(a)**



**(b)**



**Figure S1. Detection of a single target in a MCDA reaction.** Two sets of MCDA

primers targeting the *pgaD* (a) and *bla*$_{OXA-23-like}$ (b) genes were used in different reactions and the serial dilutions (10 ng, 10 pg, 1 pg, 100 fg, 10 fg and 1 fg) of target templates were subjected to MCDA reactions. (a) and (b), gel electrophoresis applied for analysis of *pgaD*- and *bla*$_{OXA-23-like}$-MCDA products. Signals/Tubes/Biosensors/Lanes 1-6: *A. baumannii* (SG-AB001) genomic templates (10 ng-1fg); Signal/Tube/Biosensor/Lane 7: negative control (*K. pneumoniae*); Signal/Tube/Biosensor/Lane 8: blank control (DW).