

Supporting Information

Detection of *Salmonella* Bacteria in Milk Using Gold-coated Magnetic Nanoparticle Clusters and Lateral Flow Filters

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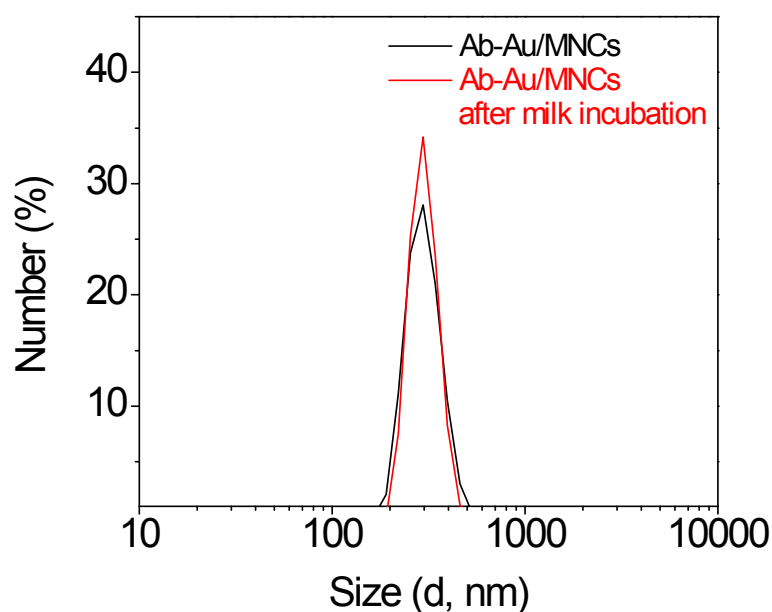


Figure S1. DLS number mean size distribution curves of the antibody-functionalized Au/MNCs solution before (black) and after (red) incubation in milk for 3 h.

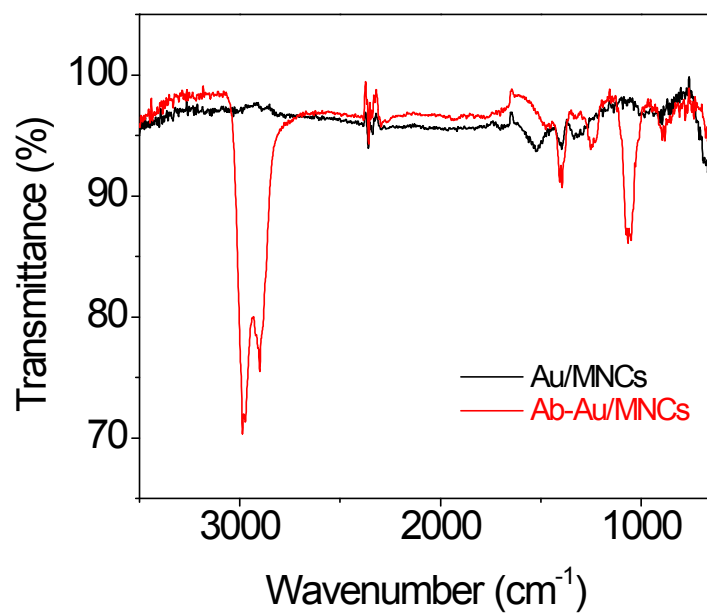


Figure S2. FT-IR spectra of bare Au/MNCs (black) and antibody-functionalized Au/MNCs (red). The peaks at 3000 and 2900 cm⁻¹ correspond to O-H stretching band of carboxylic acid. The peak at 1050 cm⁻¹ corresponds to C-N and C-O stretching band of amine and carboxylic acid.