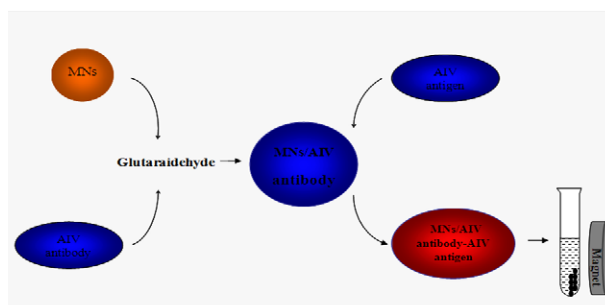# Supporting Information

Detection of avian influenza virus based on magnetic silica nanoparticles resonance light scattering system

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Scheme 1 Schematic illustration of the immunoreaction of AIV antigen and AIV antibody on the surface of MNs
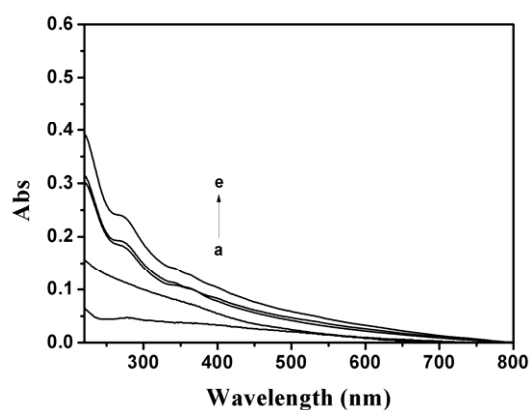

Fig. S1 UV-vis spectrum of AIV antibody (a) MNs (b) and MNs/AIV antibody (c-e). c-e represents MNs/AIV antibody is washed and separated thrice, twice and once, respectively. The concentration of AIV antibody is 200 ng/mL.
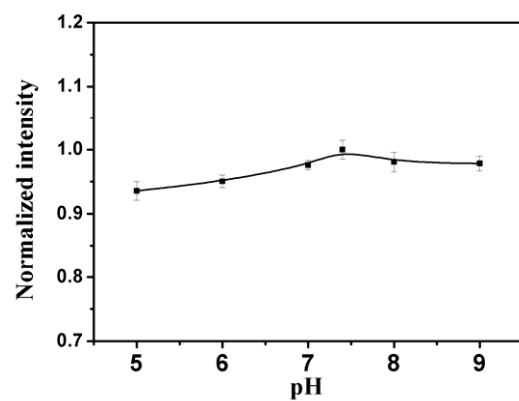
Fig. S2 The effect of immunoreaction pH on the RLS intensity of MNs/AIV antibody-AIV antigen immuoreaction system at 545 nm. Conditions: the concentration of AIV antibody is 200 ng/mL; the immunoreaction time is 90 min; the concentration of AIV antigen is 200 ng/mL. Error bars are calculated from 3 measurements on 3 independent samples.