Electronic Supplementary Material (ESI) for RSC Advances.

Rapid and Sensitive Detection of *Salmonella enteritidis* by Pre-concentrated Immunochromatographic Assay in Large-volume Sample System

Miao-Lin Duan[a], Yan-Mei Huang[c], Song-Song Wu[a], Guo-Qiang Li[a] Shu-Ying Wang[a], Ming-Hui Chen[a], Chun Wang[a], Dao-Feng Liu[b,*], Cheng-Wei Liu[b,*], Wei-Hua Lai[a,*]

[a] *State Key Laboratory of Food Science and Technology, Nanchang University, 235, Nanjing East Road, Nanchang 330047, China*

[b] *Institute for Nutrition and Food Safety, Jiangxi Province Centre for Disease Control and Prevention, 555, Beijing East Road, Nanchang 330029, China*

[c] *Jiangxi YeLi Medical Device Co.,Ltd, 2799, Tianxiang Road, Nanchang 330008, China*

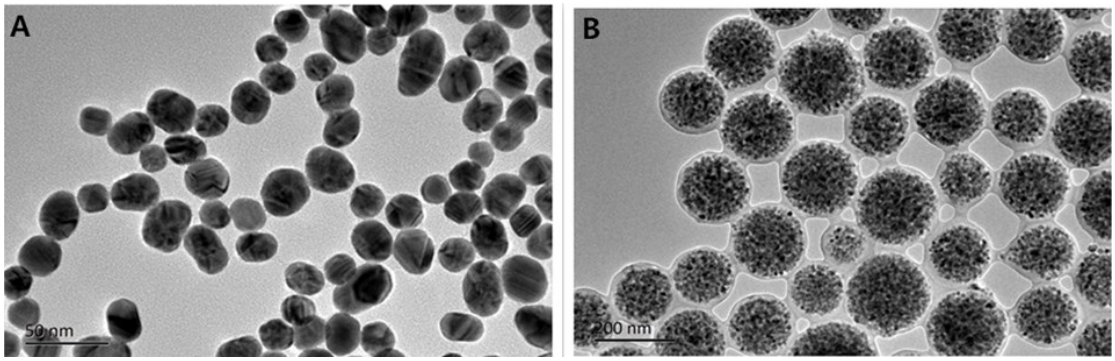

Figure S1. Transmission electron microscopy image of CG (A) and MNPs (B).

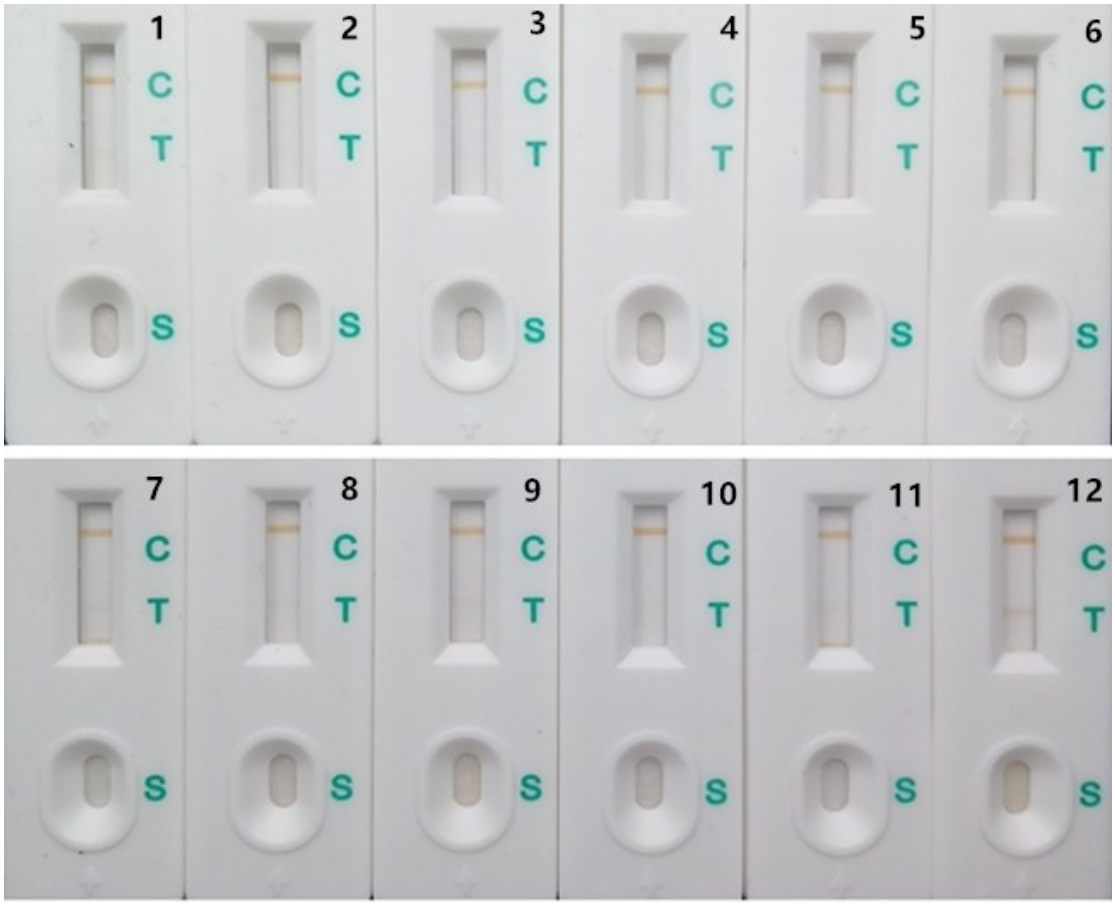

Figure S2. Results of specificity test for large-volume MNP-ICA. Nos. 1 and 2 are the control groups (PBS and LB). Nos. 3 to 11 are *Listeria welshimeri* (ATCC 35897), *Candida albicans* (ATCC 10231), *Bacillus subtilis* (BD 168), *Proteusbacillus vulgaris* (CMCC 49027), *Shigella flexneri* (CMCC 2457), *Enterobacter sakazakii* (CMCC 45407), *Pseudomonas aeruginosa* (CMCC 11997), *Escherichia coli O157:H7* (ATCC 43888) and *Micrococcus luteus* (CMCC 28001), respectively. Nos. 12 is *Salmonella enteritidis* (ATCC 13076).

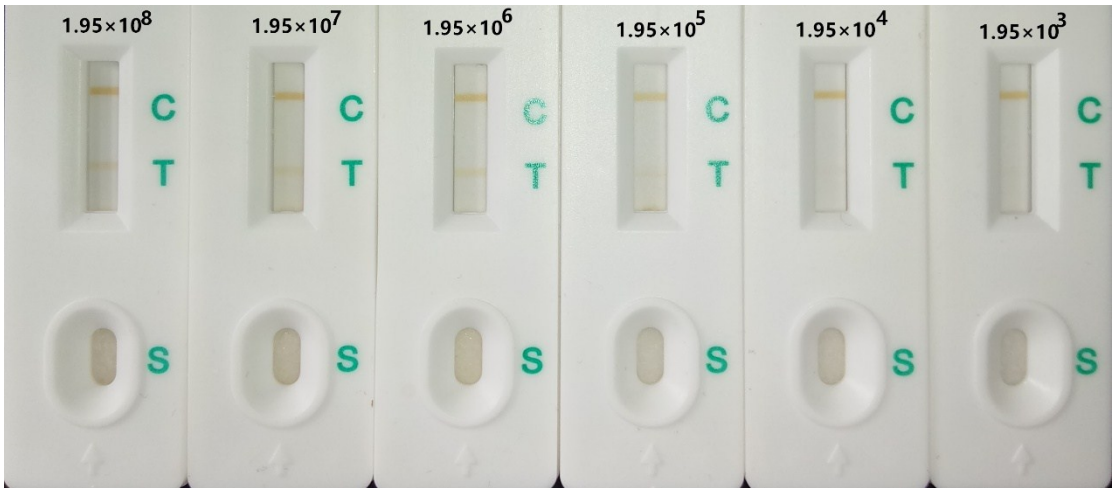

Figure S3. Detection of *S. enteritidis* in spiked milk matrix by large-volume MNP-ICA.