

An electrochemical aptasensor using coaxial capillary with magnetic nanoparticle, urease catalysis and PCB electrode for rapid and sensitive detection of *Escherichia coli* O157:H7

Lei Wang¹, Fengchun Huang¹, Gaozhe Cai², Lan Yao², Huilin Zhang¹,
Jianhan Lin^{2*}

¹Key Laboratory of Agricultural Information Acquisition Technology, Ministry of Agriculture, China Agricultural University, 17 East Qinghua Road, Beijing, 100083 China

²Key Laboratory on Modern Precision Agriculture System Integration Research, Ministry of Education, China Agricultural University, 17 East Qinghua Road, Beijing, 100083 China

*Corresponding author: Dr. Jianhan Lin, Phone/Fax: +86-10-62737599;
Email: jianhan@cau.edu.cn

Table of Contents

Fig. S1.....	S3
Fig. S2.....	S4

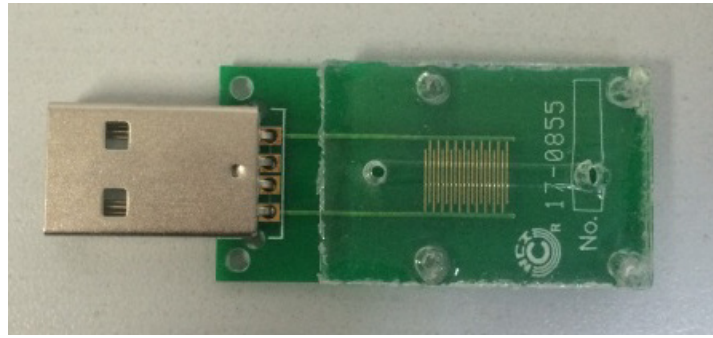
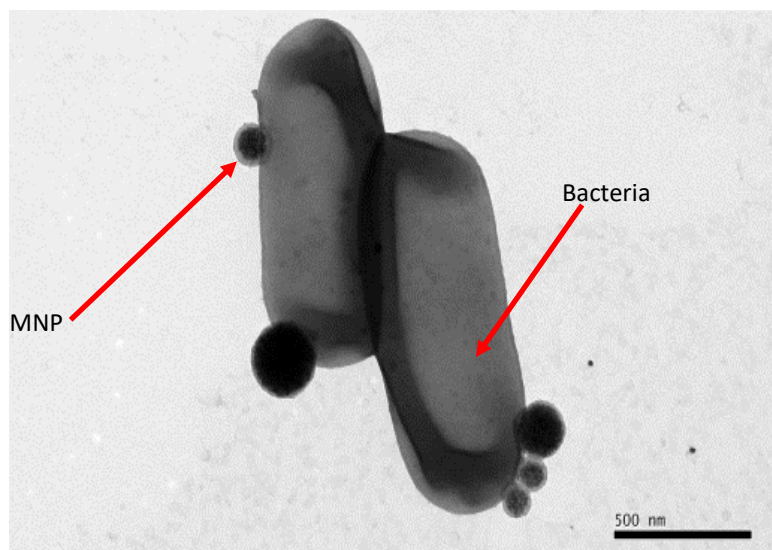
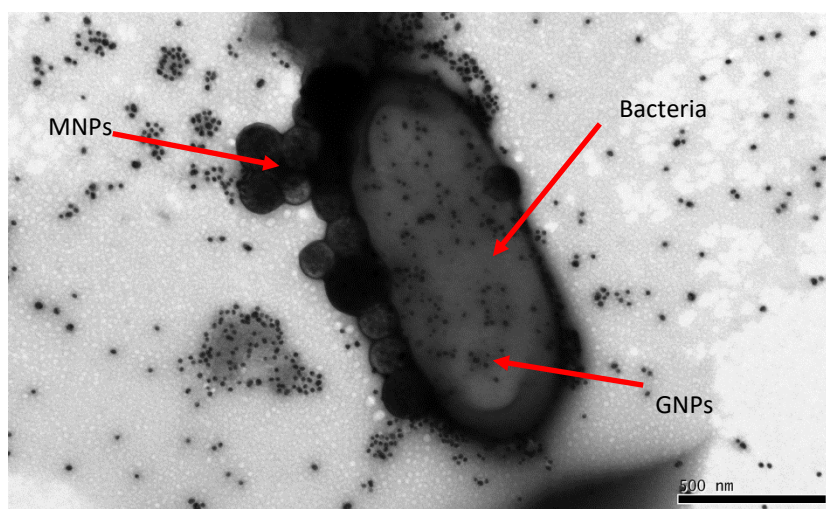


Fig. S1. The gold plating PCB electrode.



(a)



(b)

Fig. S2. The pictures of the MNP-PAb-bacteria complex (a) and the MNP-PAb-bacteria-aptamer-GNP-urease complex (b).