Electronic Supplementary Information (ESI)

MicroRNA-21 detection based on molecular switching by amperometry

Yunlei Zhou b, Zhaoyan Zhang a, Zhenning Xu a, Huanshun Yin a,* , Shiyun Ai a,*

a College of Chemistry and Material Science, Shandong Agricultural University, 271018, Taian, Shandong, PR China

b Key Laboratory of Cell Proliferation and Regulation Biology of Ministry of Education, College of Life Science, Beijing Normal University, 100875, Beijing, PR China

* Corresponding author.

Tel: +86 538 8247660

Fax: +86 538 8242251

E-mail address: yinhs@sdau.edu.cn (H.S. Yin), ashy@sdau.edu.cn (S.Y. Ai)
Fig. S1. The electrochemical response of the biosensor after the probe hybridized with miRNA-21 (a) and multiple microRNAs containing complementary miRNA-21, three-bases mismatched and non-complementary miRNAs (b).
Fig. S2. 1% agarose gel electrophoresis of isolated total RNA from Human HeLa cells (a) and normal human hepatic L02 cells (b). (c) is DNA marker.