Supporting Information

Magnetic Mesoporous Silica Nanoparticles for CpG Delivery to Enhance Cytokine Induction via Toll-like Receptor 9

Cuilian Tao^a, Yufang Zhu^{b*}, Xianglan Li^c, Nobutaka Hanagata^c

^a School of Medical Instrument and Food Engineering, University of Shanghai for

Science and Technology, 516 Jungong Road, Shanghai, 200093, China.

^b School of Materials Science and Engineering, University of Shanghai for Science and

Technology, 516 Jungong Road, Shanghai, 200093, China.

^c Nanotechnology Innovation Station, National Institute for Materials Science, 1-2-1

Segen, Tsukuba, Ibaraki 305-0047, Japan.

*Corresponding authors: Yufang Zhu

Tel: +86-21-55271663;

Email: <u>zjf2412@163.com</u>



Fig. S1 Wide angle XRD pattern of Fe_3O_4 nanoparticles



Fig. S2 Magnetization curve of ${\rm Fe_3O_4}$ nanoparticles measured at 298 K.



Fig. S3 TEM image of $\ensuremath{\mathsf{Fe}}_3O_4$ nanoparticles.



Fig. S4 SEM image of MMS nanoparticles