Electronic Supplementary Information

Antibacterial activity of novel Cu₂ZnSnS₄ nanoparticles against pathogenic

strains

R. Saravana Kumar^a, Sateesh Maddirevula^b, Maheswaran Easwaran^c, S.H.S. Dananjaya^d, Moon-Deock Kim^{a*}

^aDepartment of Physics, Chungnam National University, 220 Gung-Dong, Yuseong-Gu, Daejeon 305-764, South Korea.

^bDepartment of Genetics, King Faisal Specialist Hospital and Research Center, Riyadh, Saudi Arabia.

^cLaboratory of Infectious Disease, College of Veterinary Medicine, Chungnam National University, Daejeon 305-764, South Korea.

^dLaboratory of Aquatic Animal Disease, College of Veterinary Medicine, Chungnam National University, Daejeon 305-764, South Korea.

*Corresponding author e-mail: <u>mdkim@cnu.ac.kr</u>



Figure S1. (a) UV-vis absorption spectra, (b) SEM image and (c) Zeta-potential of Ag-NPs.





against G+ and G- bacteria