Supplementary File

ENHANCED ANTIMICROBIAL ACTIVITY OF BIOFUNCTIONALIZED ZIRCONIA NANOPARTICLES

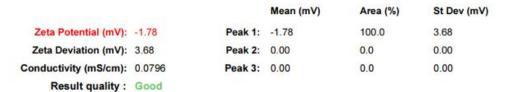
Mujeeb Khan^{*,1}, Mohammed Rafi Shaik¹, Shams Tabrez Khan², Syed Farooq Adil¹, Mufsir Kuniyil³, Majad Khan⁴, Abdulrahman A. Al-Warthan¹, Mohammed Rafiq H Siddiqui¹, and Muhammad Nawaz Tahir^{*,4}

¹Department of Chemistry, College of Science, King Saud University, P.O. 2455, Riyadh 11451, Kingdom of Saudi Arabia.

²Department of Agricultural Microbiology, Faculty of Agriculture, Aligarh Muslim University, Aligarh, UP, 202002, India

³Department of Chemistry, Koneru Lakshmaiah Education Foundation, Vaddeswaram, Guntur 522502, Andhra Pradesh, India

⁴Chemistry Department, King Fahd University of Petroleum & Minerals, Dhahran, 31261, Kingdom of Saudi Arabia.



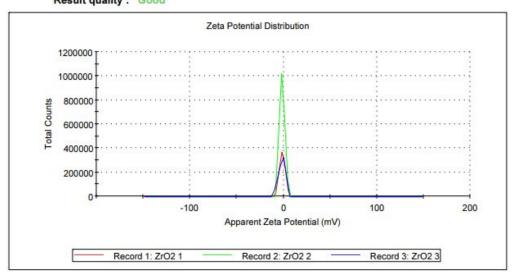


Figure S1: zeta potential plots of ZrO₂



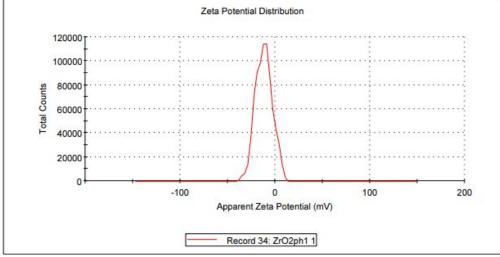


Figure S2: Zeta potential plots of ZrO₂ at pH 8

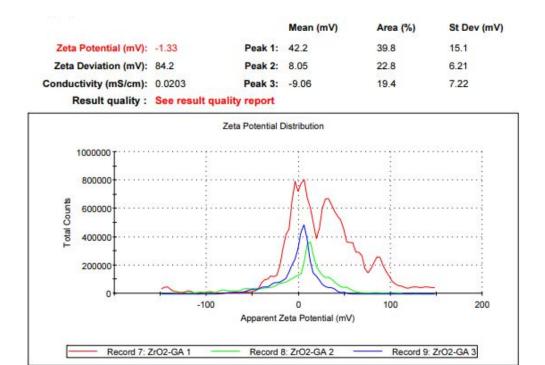


Figure S3: Zeta potential plots of GA-ZrO₂

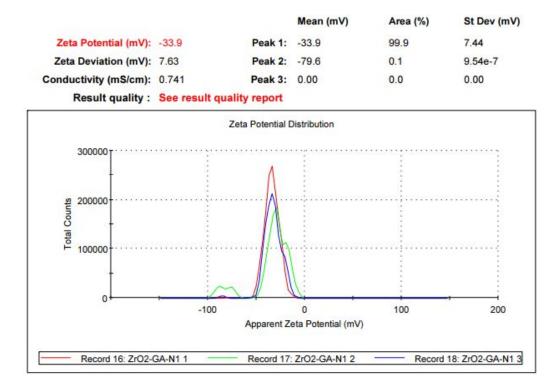


Figure S4: Zeta potential plots of GA-ZrO₂ at pH 8

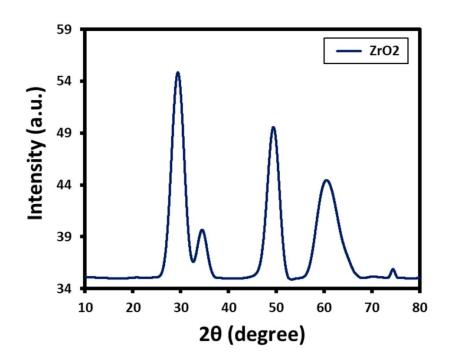


Figure S5: XRD pattern of ZrO2

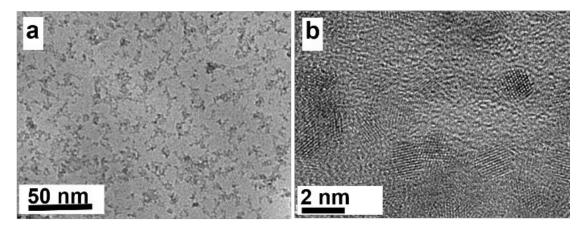


Figure S6: TEM images of pure ZrO₂ NPs (a,b) different resolution.