Eco-Friendly AuNPs@rGO Nanocomposite as a Peroxidase-Mimic for Cholesterol Detection

Wafa Al-Gethami[1], Mohammad Shariq[2]*, Vijay Kumar[3], Eman Alzahrani[1], Ohoud F. Al Sharif[1], Mona Mohammad AlAmri[4], Mukul Sharma[5], Raha Osailan[6], Dalin A. Hassan[7], A. Khatab[8,9]

[1]Department of Chemistry, College of Science, Taif University, PO Box 11099, Taif, 21944, Saudi Arabia

[2]Department of Physics, Faculty of Science, Integral University, Lucknow 226026, India

[3]Department of Environmental Science, Satyawati College, University of Delhi, Delhi-110052, India

[4]Department of Chemistry, College of Science, University of Bisha, Bisha 61922, Saudi Arabia

[5]Environment and Nature Research Centre, Jazan University, P.O. Box 114, Jazan, 45142, Saudi Arabia

[6]Department of Biology, College of Science, Taibah University, Yanbu, Saudi Arabia

[7]Department of Pharmacology and Toxicology, College of Pharmacy, Jazan University, Jazan 45142, Saudi Arabia.

[8]Department of Physics, College of Science in Yanbu, Taibah University, Yanbu Governorate, Saudi Arabia

[9]Department of Laser Sciences and Interactions, National Institute of Laser Enhanced Sciences, Cairo University, Egypt.
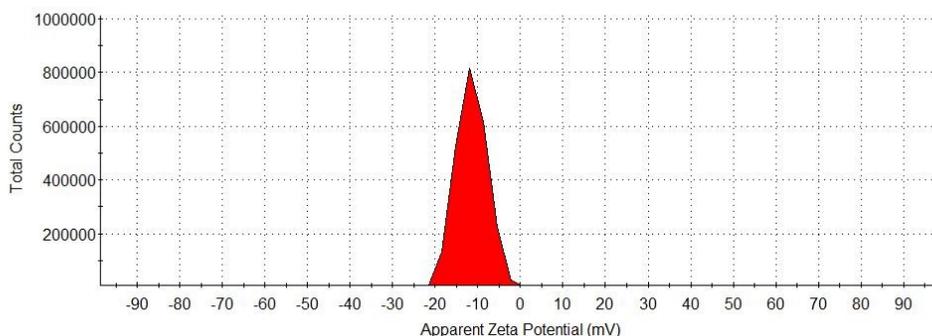
*Corresponding Author: lucknow84iit@gmail.com

Figure S1: Zeta potential showing the negatively charged surface of AuNPs