

Article

Enhancement of Vancomycin Potential against Pathogenic Bacterial Strains via Gold Nano-Formulations: A Nano-Antibiotic Approach

Turki Al Hagbani ¹, Hemant Yadav ², Afrasim Moin ¹, Amr Selim Abu Lila ^{1,3}, Khalid Mehmood ⁴, Farhan Alshammari ¹, Salman Khan ⁵, El-Sayed Khafagy ^{6,7}, Talib Hussain ^{8,*}, Syed Mohd Danish Rizvi ^{1,*} and Marwa H. Abdallah ^{1,3}

¹ Department of Pharmaceutics, College of Pharmacy, University of Ha'il, Ha'il 81442, Saudi Arabia; t.alhagbani@uoh.edu.sa (T.A.H.); afrasimmoin@yahoo.co.in (A.M.); a.abulila@uoh.edu.sa (A.S.A.L.); frh.alshammari@uoh.edu.sa (F.A.); mh.abdallah@uoh.edu.sa (M.H.A.)

² Department of Pharmaceutics, RAK College of Pharmaceutical Sciences, RAK Medical & Health Sciences University, Ras Al Khaimah 11172, United Arab Emirates; hemant@rakmhsu.ac.ae

³ Department of Pharmaceutics and Industrial Pharmacy, Faculty of Pharmacy, Zagazig University, Zagazig 44519, Egypt

⁴ Department of Pharmacy, Abbottabad University of Science and Technology, Havelian 22010, Pakistan; adckhalid@gmail.com

⁵ Nanomedicine and Nanotechnology Lab, Department of Biosciences, Integral University, Lucknow 226026, India; salmank@iul.ac.in

⁶ Department of Pharmaceutics, College of Pharmacy, Prince Sattam Bin Abdulaziz University, Al-kharj 11942, Saudi Arabia; e.khafagy@psau.edu.sa

⁷ Department of Pharmaceutics and Industrial Pharmacy, Faculty of Pharmacy, Suez Canal University, Ismailia 41522, Egypt

⁸ Department of Pharmacology and Toxicology, College of Pharmacy, University of Ha'il, Ha'il 81442, Saudi Arabia

* Correspondence: mdth_ah@yahoo.com (T.H.); syeddanishpharmacy@gmail.com (S.M.D.R.)

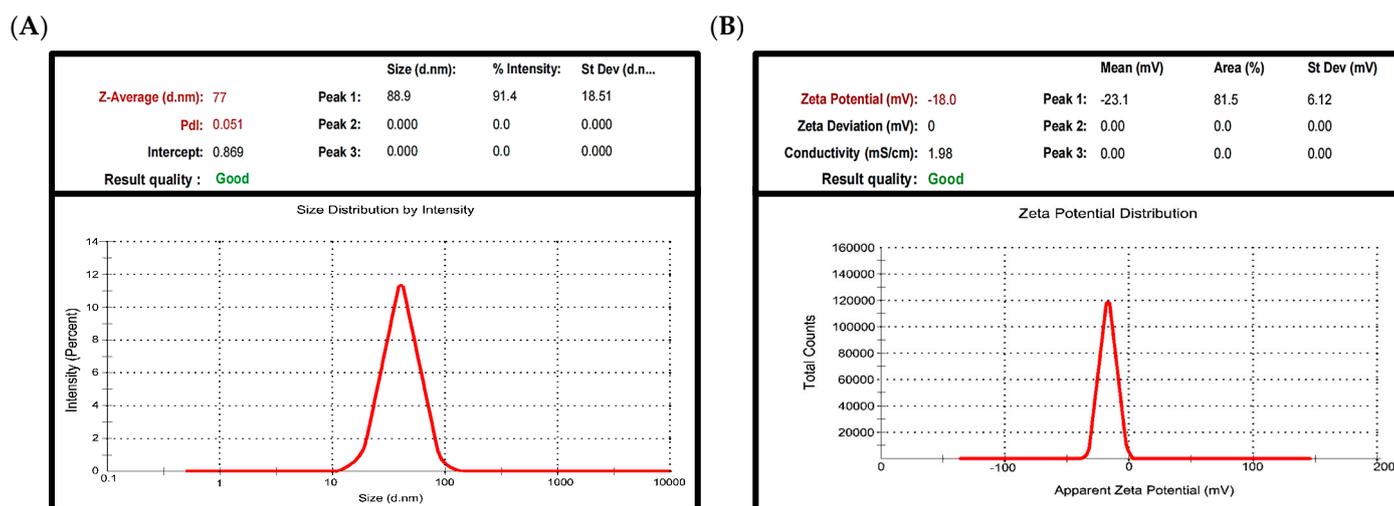


Figure S1. (A) DLS, (B) Zeta-potential of V-GNPs.