



Article

Adsorption-Membrane Hybrid Approach for the Removal of Azithromycin from Water: An Attempt to Minimize Drug Resistance Problem

Muhammad Wahab ¹, Muhammad Zahoor ^{2,*}, Syed Muhammad Salman ¹, Abdul Waheed Kamran ³, Sumaira Naz ², Juris Burlakovs ⁴, Anna Kallistova ⁵, Nikolai Pimenov ⁵ and Ivar Zekker ^{6,*}

¹ Department of Chemistry, Islamia College University, Peshawar 25000, Khyber Pakhtunkhwa, Pakistan; mwahabbajaur@gmail.com (M.W.); salman@icp.edu.pk (S.M.S.)

² Department of Biochemistry, University of Malakand, Chakdara Dir Lower, 18800, Khyber Pakhtunkhwa, Pakistan; sumaira.biochem@gmail.com

³ Department of Chemistry, University of Malakand Chakdara Dir Lower, 18800 KPK, Pakistan; waheedkamran1989@gmail.com

⁴ Estonian University of Life Sciences, 5 Kreutzwaldi St., Tartu, Estonia; Juris.burlakovs@emu.ee

⁵ Winogradsky Institute of Microbiology, Research Centre of Biotechnology of the Russian Academy of Sciences, Leninsky prospect, 33, build. 2, 119071 Moscow, Russian Federation; kallistoanna@mail.ru (A.K.); npimenov@mail.ru (N.P.)

⁶ Institute of Chemistry, Faculty of Science, 14 Ravila st, University of Tartu, Tartu, Estonia

* Correspondence: mohammadzahoorus@yahoo.com (M.Z.); ivar.zekker@ut.ee (I.Z.)

Supplementary File

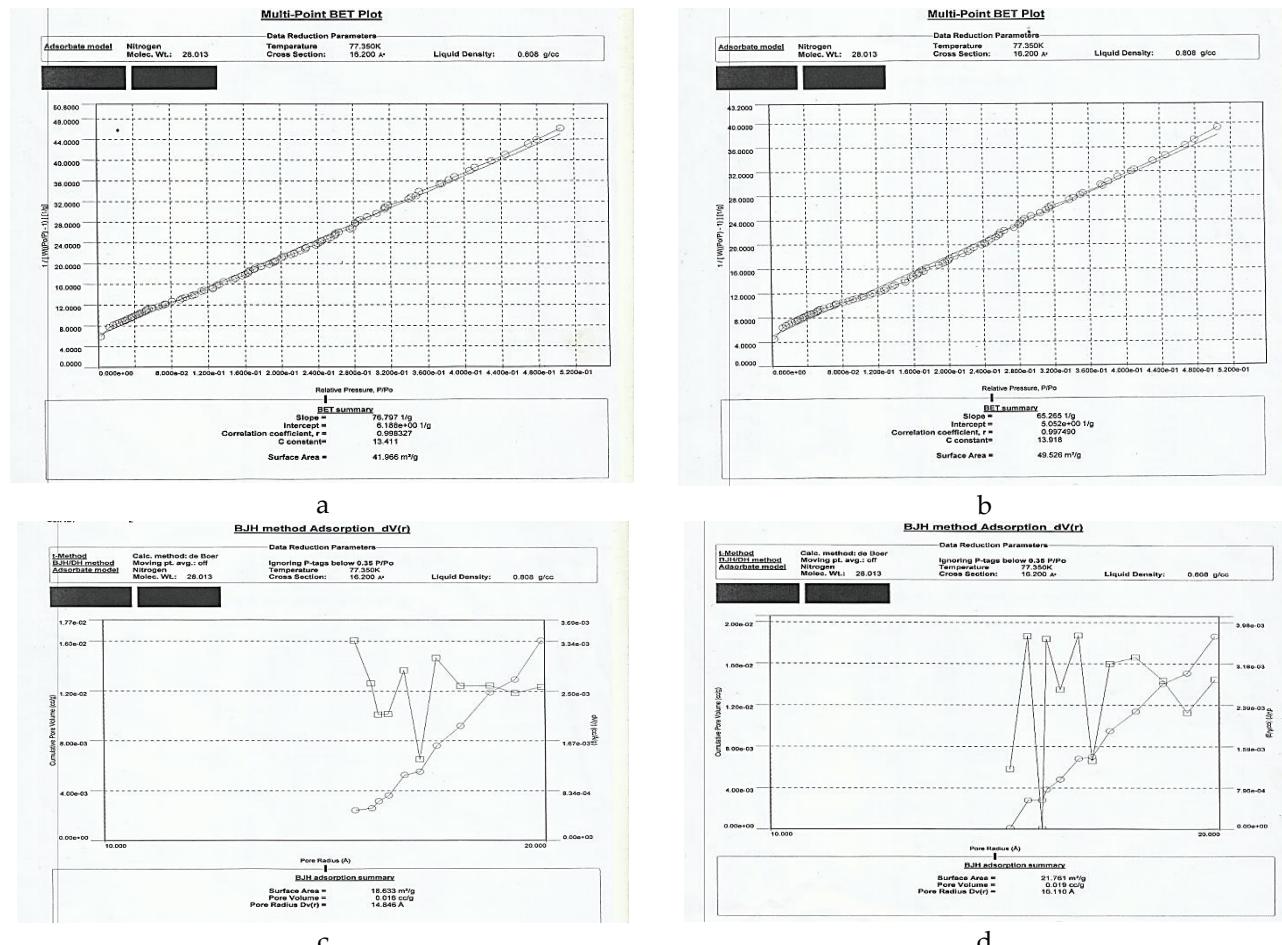


Figure S1. N₂-adsorption desorption isotherm (a) AC (b) MAC, BJH analysis of (c) AC and (d) MAC.