

Supplementary Materials

Optimization of phosphorus loaded Ni-ZnO crosslinked carboxy methyl cellulose-based biodegradable nanocomposite hydrogel beads for the slow release of P, Ni and Zn: A kinetic approach

Madhusmita Baruah^a, Arup Borgohain^{a,b}, Rimjim Gogoi^a, Nilotpall Borah^c, Diganta Deka^b,
Tanmoy Karak^b, Jiban Saikia^{a,*}

^aDepartment of Chemistry, Dibrugarh University, Dibrugarh 786004, Assam, India

^bUpper Assam Advisory Centre, Tea Research Association, Dikom 786101, Assam, India

^cSurface Chemistry, Oil and Natural Gas Corporation Ltd., Sivasagar 785640, Assam, India

* Corresponding author

E-mail address: jibansaikia@dibru.ac.in (J. Saikia)

Release kinetics

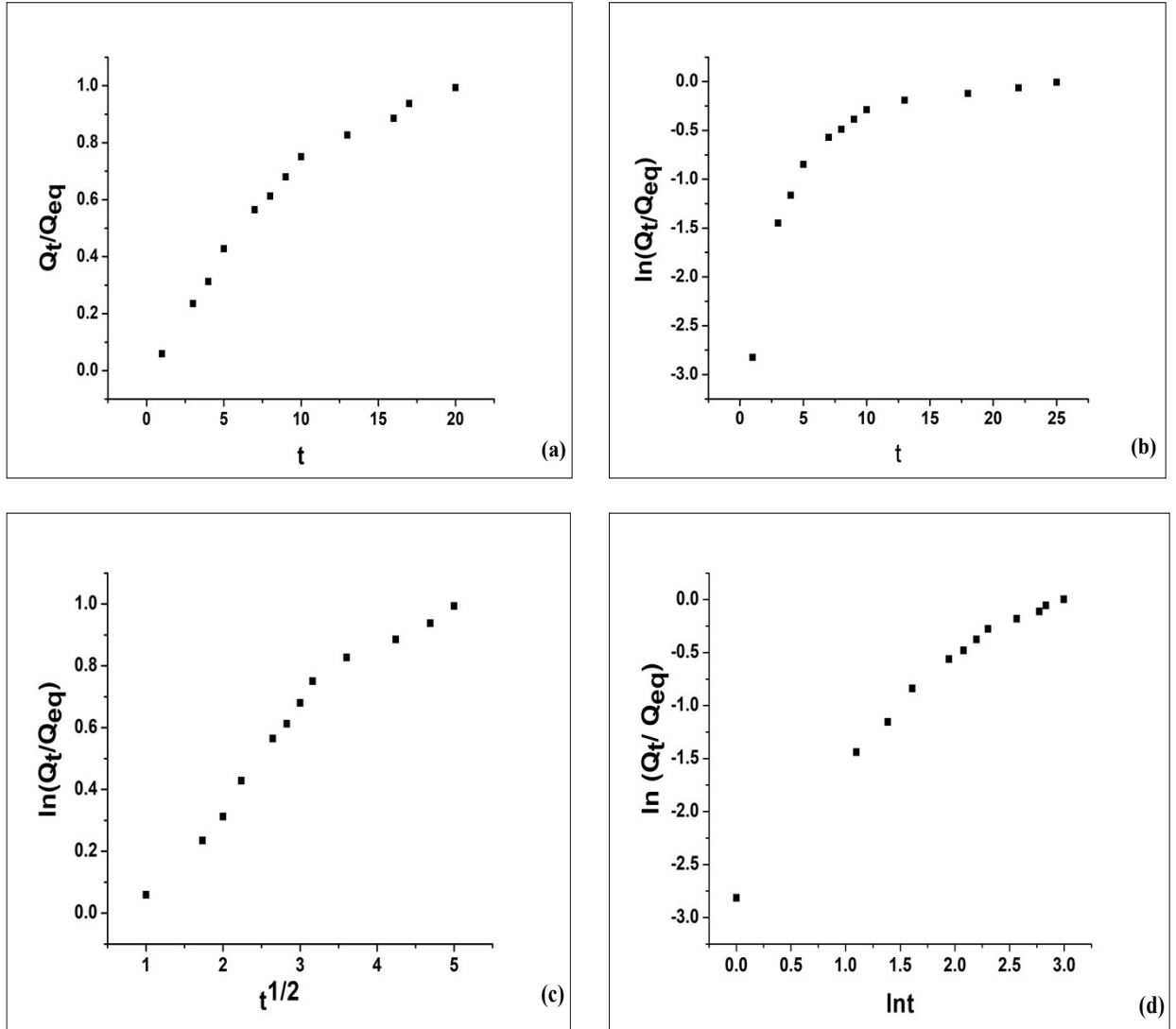


Fig.S1: Swelling Kinetics graphs for (a) Zero order (b) First order (c) Higuchi (d) Korsmeyer-Peppas Model.