

Supplementary File

Synthesis, Characterization, and Application of Dichloride (5,10,15,20-Tetraphenylporphyrinato) Antimony Functionalized Pectin Biopolymer to Methylene Blue Adsorption

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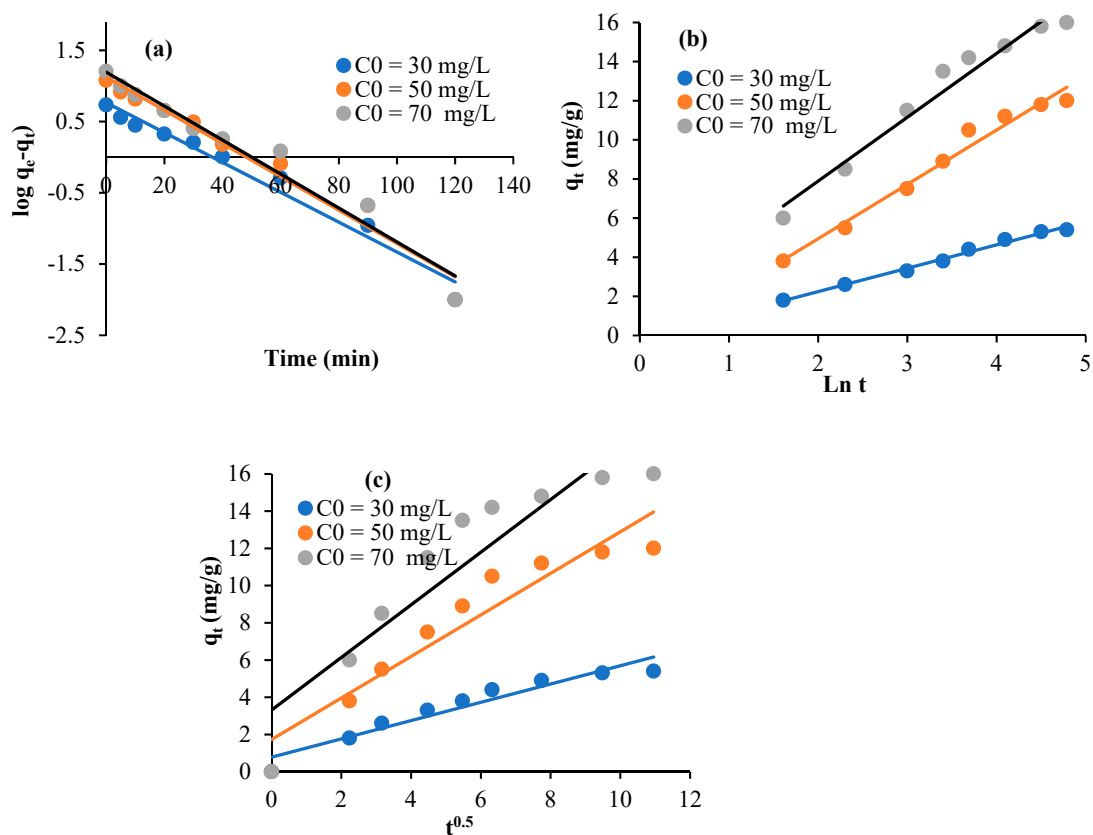
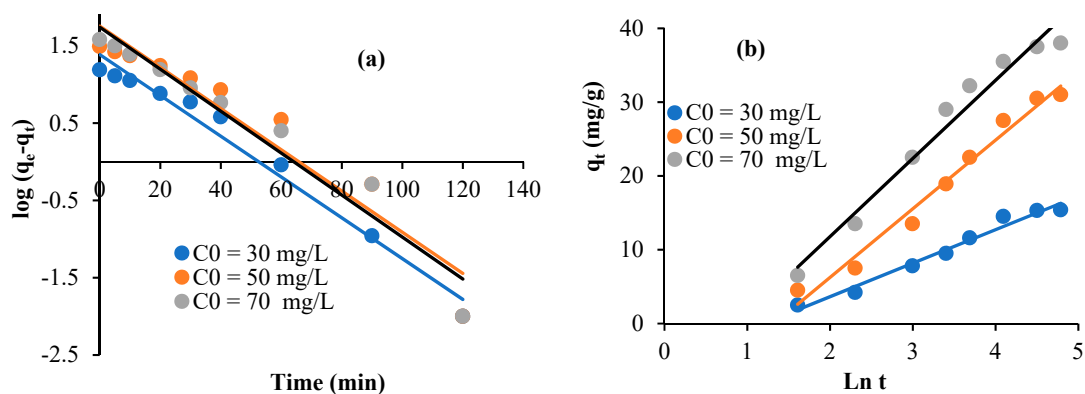


Figure S1. Kinetic plots for pectin beads: (a) First order, (b) Elovich, and (c) Intra-particle diffusion.



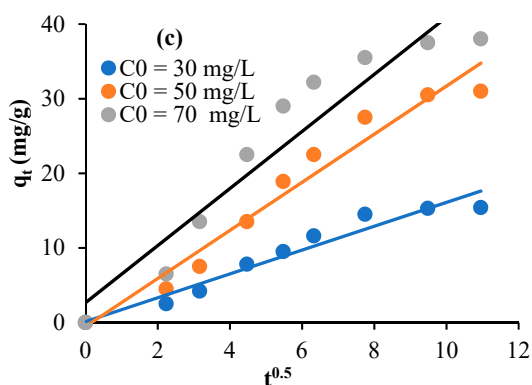


Figure S2. Kinetic plots for pectin-[Sb(TPP)Cl₂] beads (1%): (a) First order, (b) Elovich, and (c) Intra-particle diffusion.

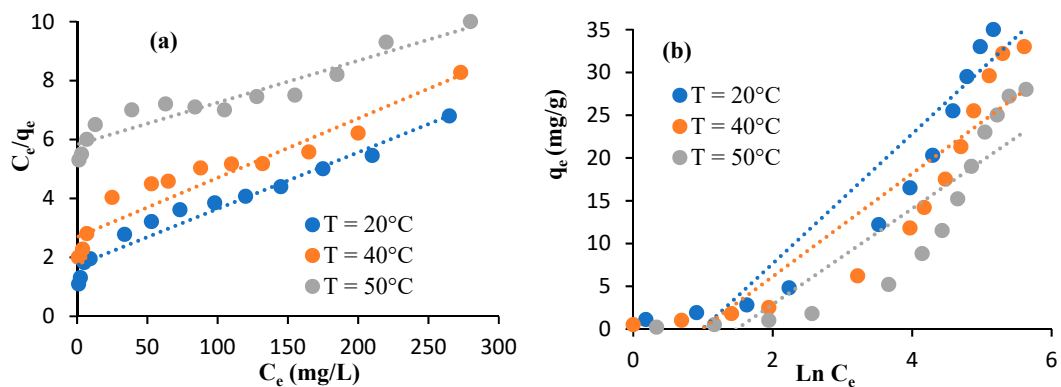


Figure S3. Isotherm data modeling for pectin beads: (a) Langmuir, and (b) Temkin.

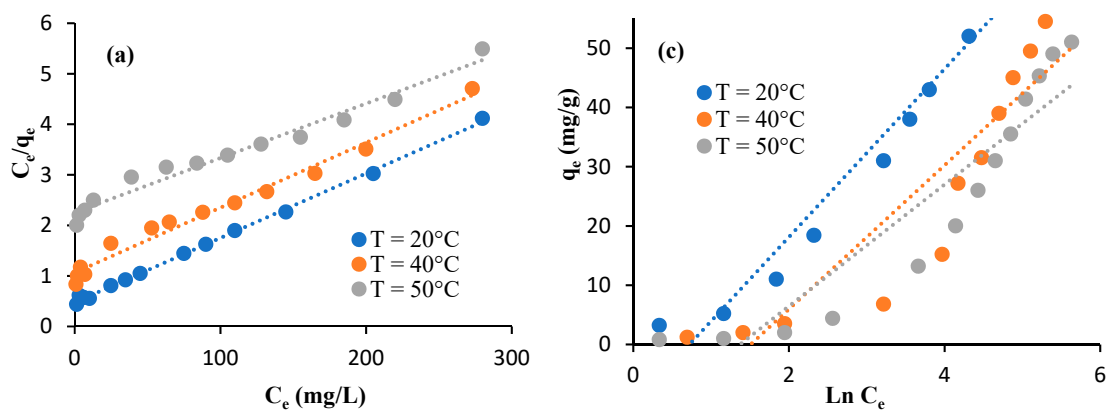


Figure S4. Isotherm data modeling for pectin-[Sb(TPP)Cl₂] beads (1%): (a) Langmuir, and (b) Temkin.