

Novel Friendly Environment Cellulose Based Derivatives for Tetraconazole Removal from Aqueous Solution

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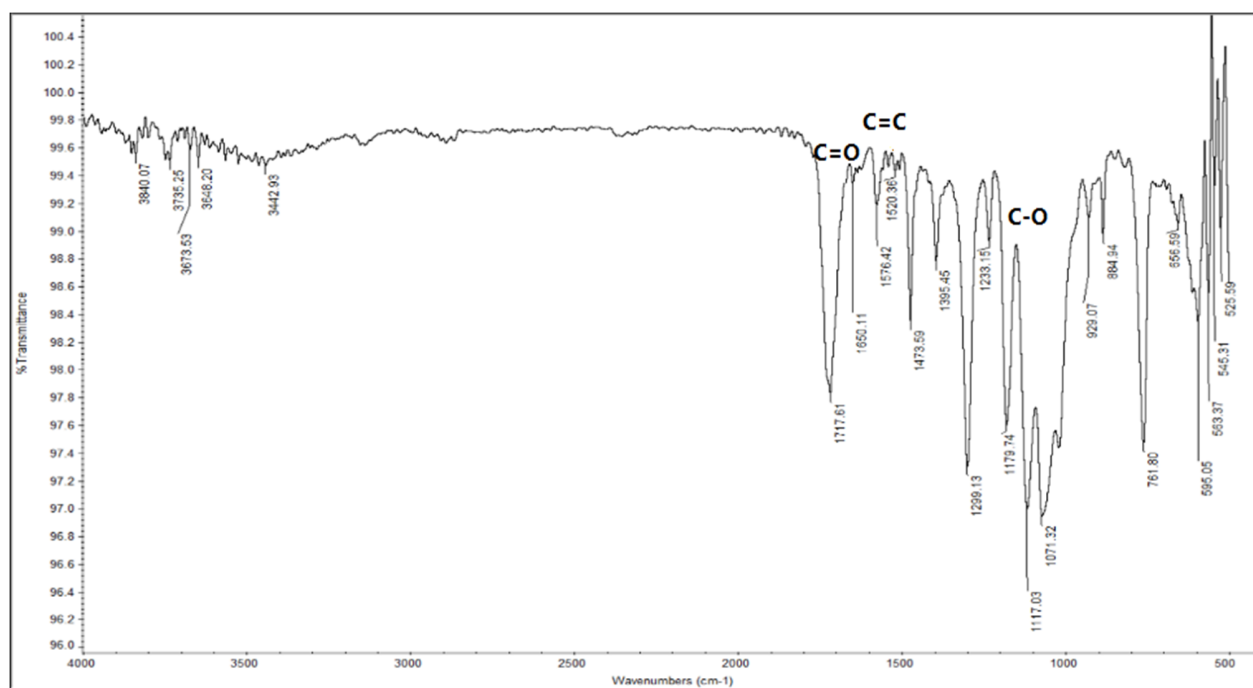


Figure S1: IR Spectra of Cell-F.

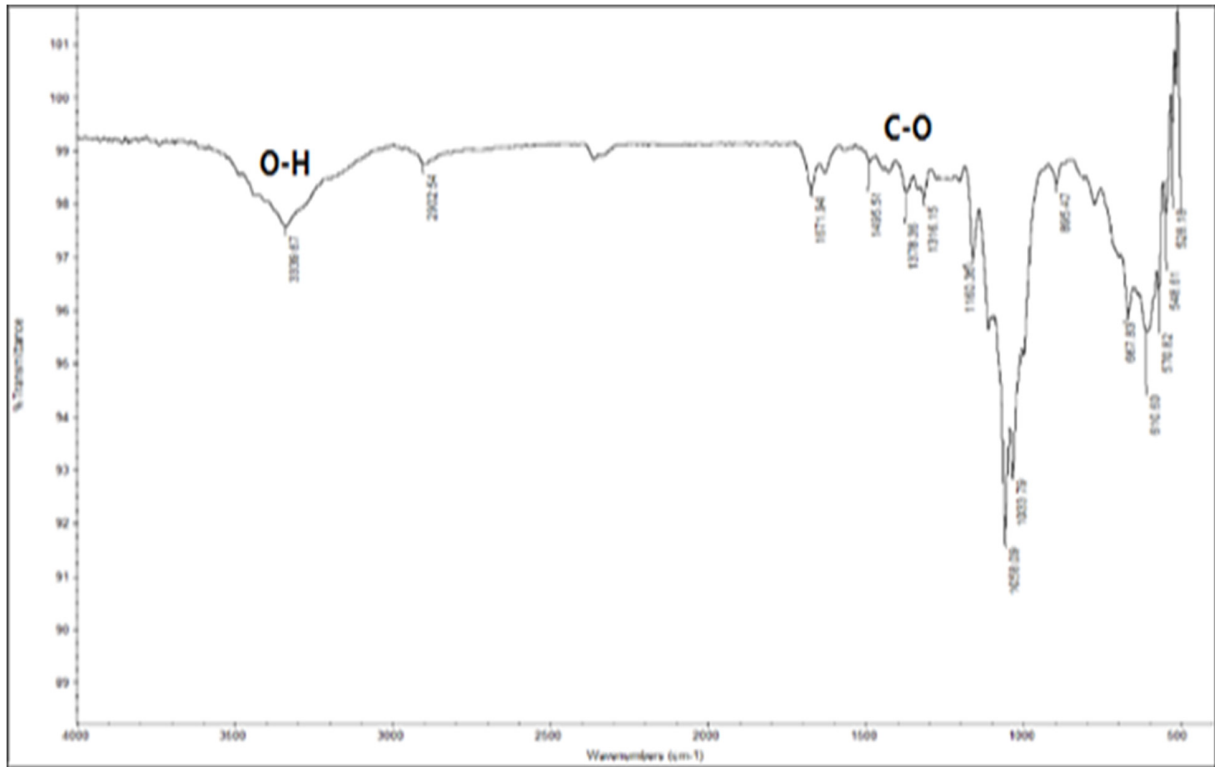


Figure S2: IR Spectra of CMC.

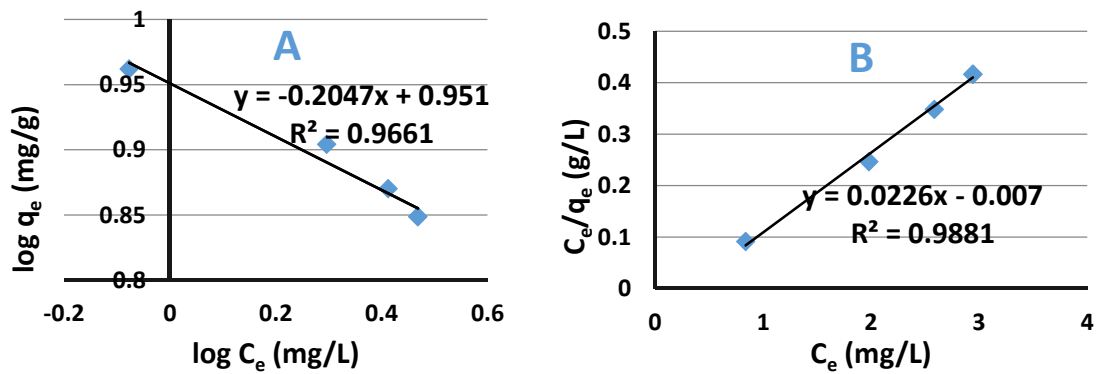


Figure S3: Freundlich (A) and Langmuir (B) plots for tetraconazole adsorption on CNC (pH = 4, temperature = 20 °C, contact time = 30 minute, adsorbent dose = 10 mg, solution volume = 10 mL).

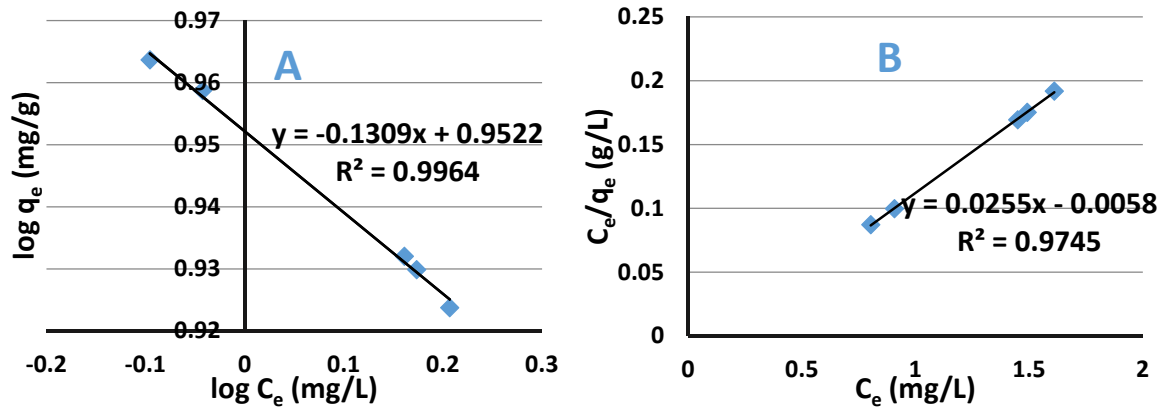


Figure S4: Freundlich (A) and Langmuir (B) plots for Tetraconazole adsorption on Cellulose Modified with Furan-2-carbonyl chloride (pH = 4, temperature = 20 °C, contact time = 15 minute, adsorbent dose = 10 mg, solution volume = 10 mL).

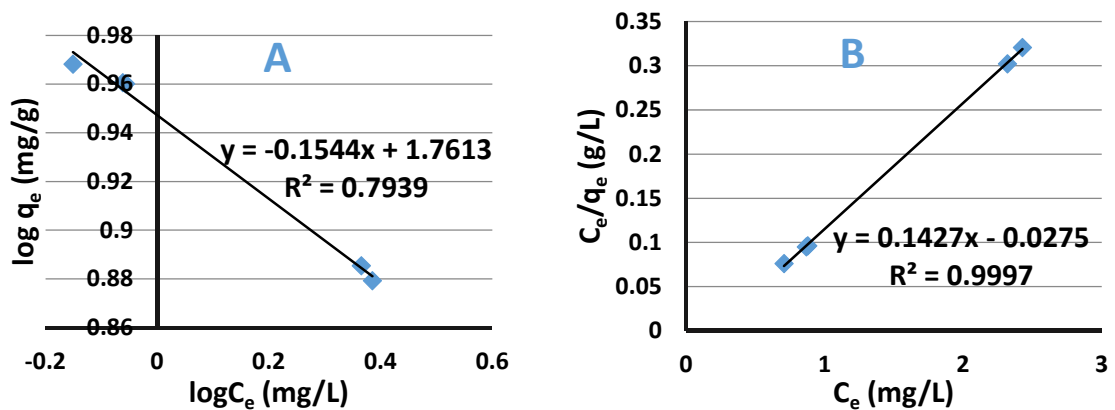


Figure S5: Freundlich (A) and Langmuir (B) plots for Tetraconazole adsorption on Cellulose Modified with Pyridine-2,6-dicarbonyl dichloride (pH = 6, temperature = 20 °C, contact time = 20 minute, adsorbent dose = 10 mg, volume of solution = 10 mL).

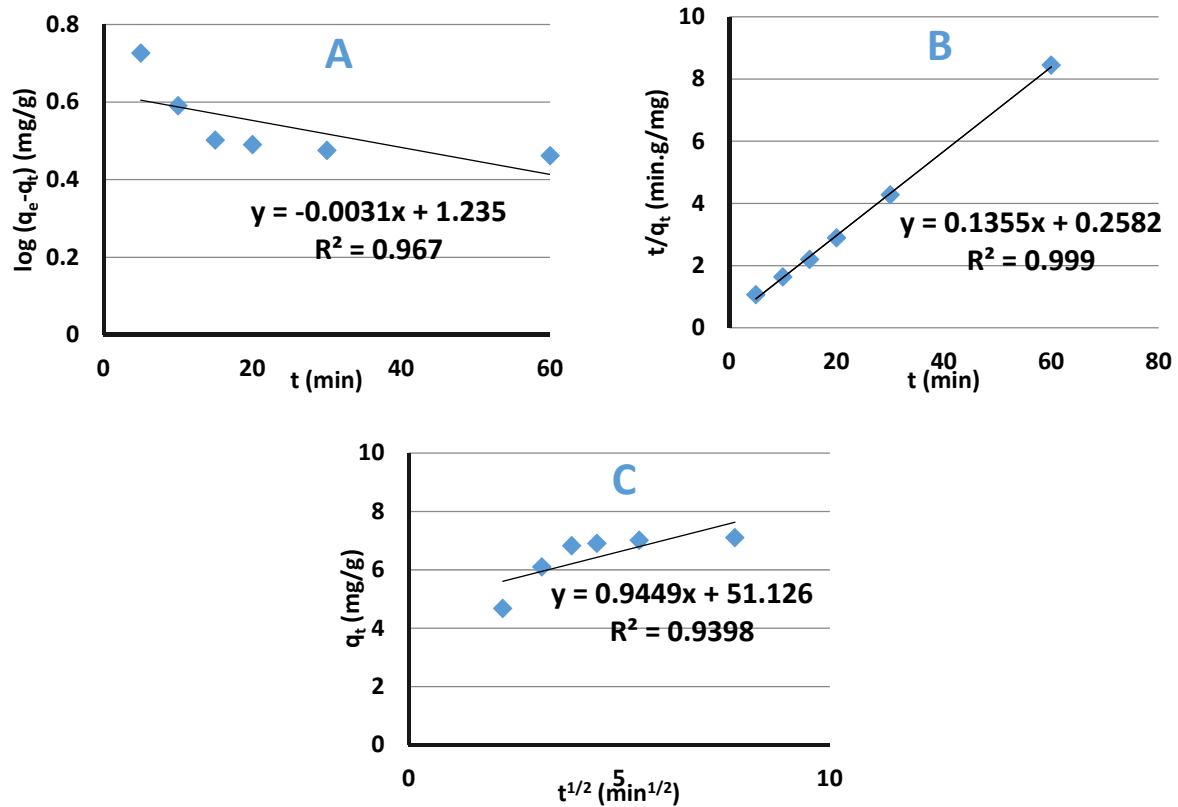


Figure S6: Pseudo first-order (A), Pseudo second order (B), and Intraparticle diffusion kinetic model (C) for Tetraconazole adsorption on NanoCellulose ($C_1 = 10$ ppm, pH = 7, temperature = 20 °C, adsorbent dose = 10 mg, volume = 10 mL).

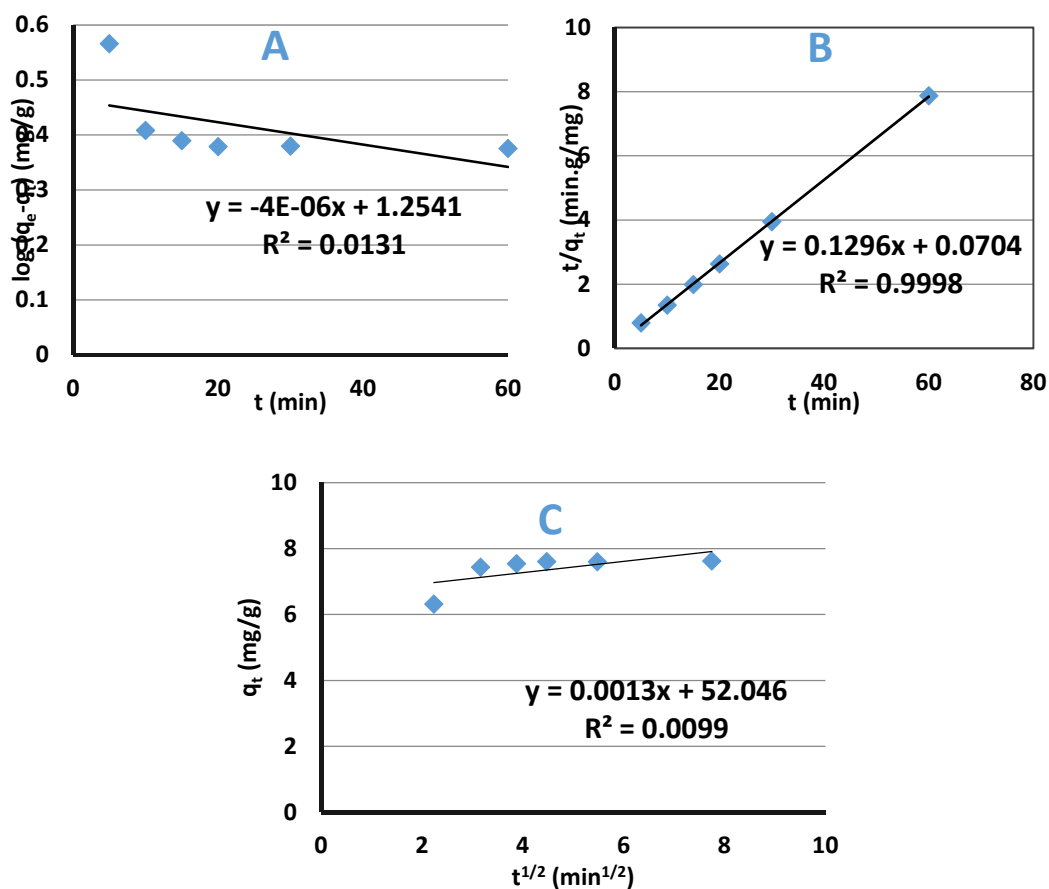


Figure S7: Pseudo first-order (A), Pseudo second order (B), and Intraparticle diffusion kinetic model (C) for Tetraconazole adsorption on Cellulose Modified with Furan-2-carbonyl chloride ($C_1 = 10$ ppm, pH = 7, temperature = 20 °C, adsorbent dose = 10 mg, volume = 10 mL).

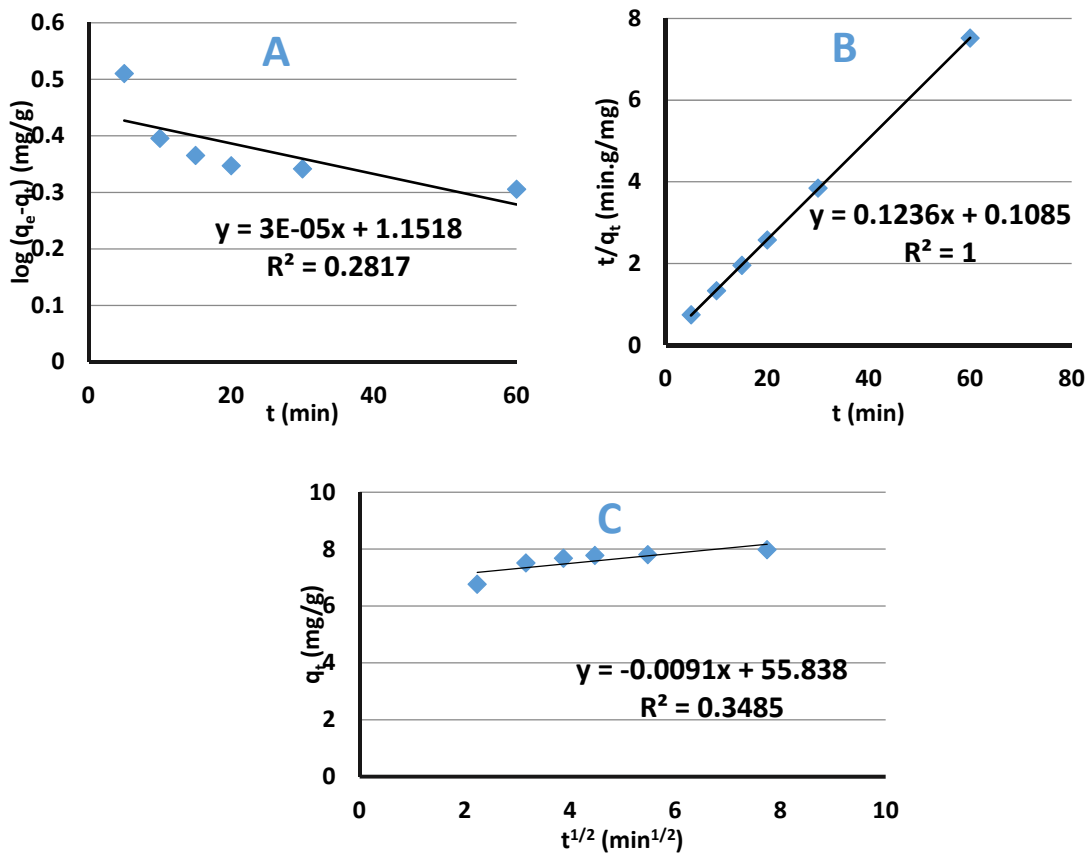


Figure S8: Pseudo first-order (A), Pseudo second order (B), and Intraparticle diffusion kinetic model (C) for Tetraconazole adsorption on Cellulose Modified with Pyridine-2,6-dicarbonyl dichloride ($C_1 = 10$ ppm, pH = 7, temperature = 20 °C, adsorbent dose = 10 mg, volume = 10 mL).

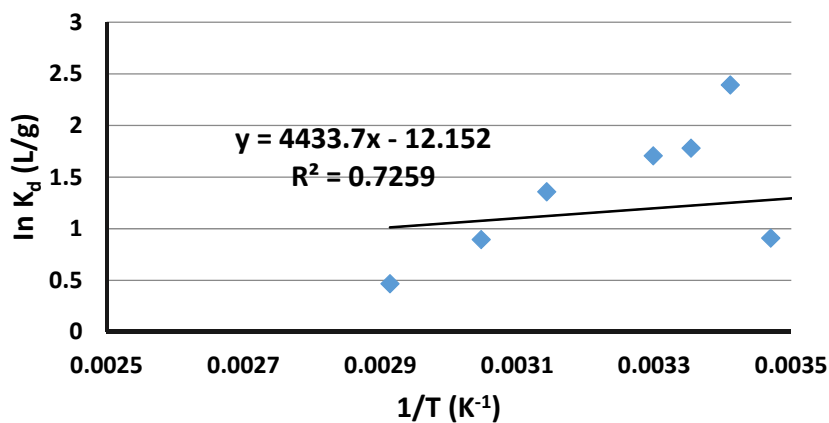


Figure S9: Van't Hoff plot for the adsorption of Tetraconazole adsorption on NanoCellulose ($C_1 = 4$ ppm, pH = 4, contact time = 30 minute, adsorbent dose = 10 mg, volume = 10 mL).

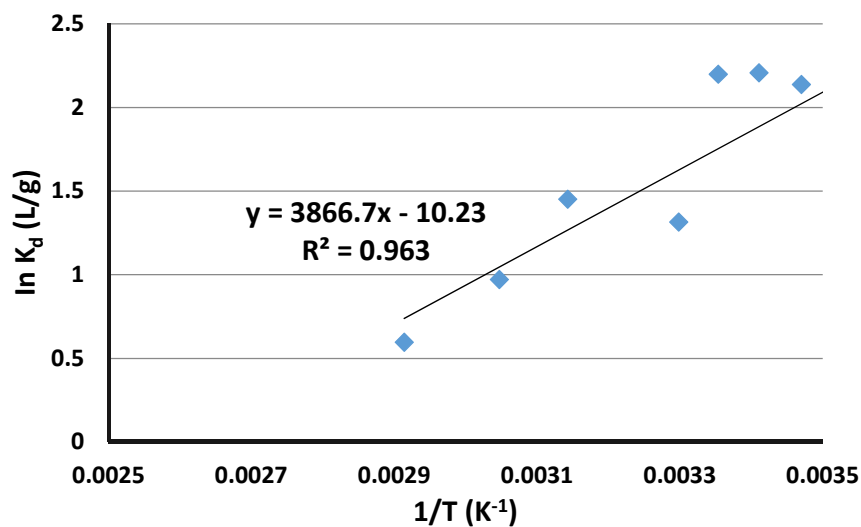


Figure S10: Van't Hoff plot for Tetraconazole adsorption on Cell-F ($C_1 = 4$ ppm, pH = 4, contact time = 15 minute, adsorbent dose = 10 mg, volume = 10 mL).

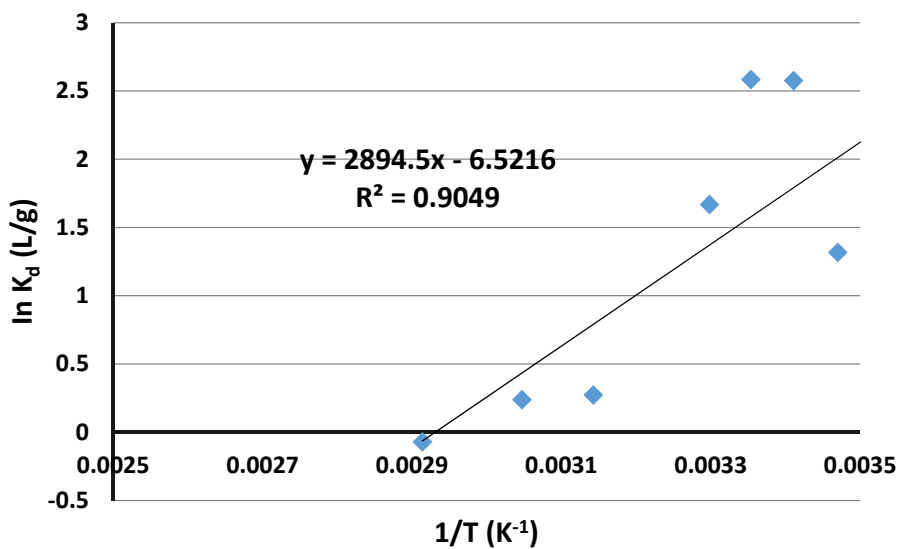


Figure S11: Van't Hoff plot for Tetraconazole adsorption on Cellulose Modified with Pyridine-2,6-dicarbonyl dichloride ($C_1 = 6$ ppm, pH = 6, contact time = 20 minute, adsorbent dose = 10 mg, volume = 10 mL).