

Article

Synthesis and Characterization of Slow-Release Fertilizer Hydrogel Based on Hydroxy Propyl Methyl Cellulose, Polyvinyl Alcohol, Glycerol and Blended Paper

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Supplementary Data

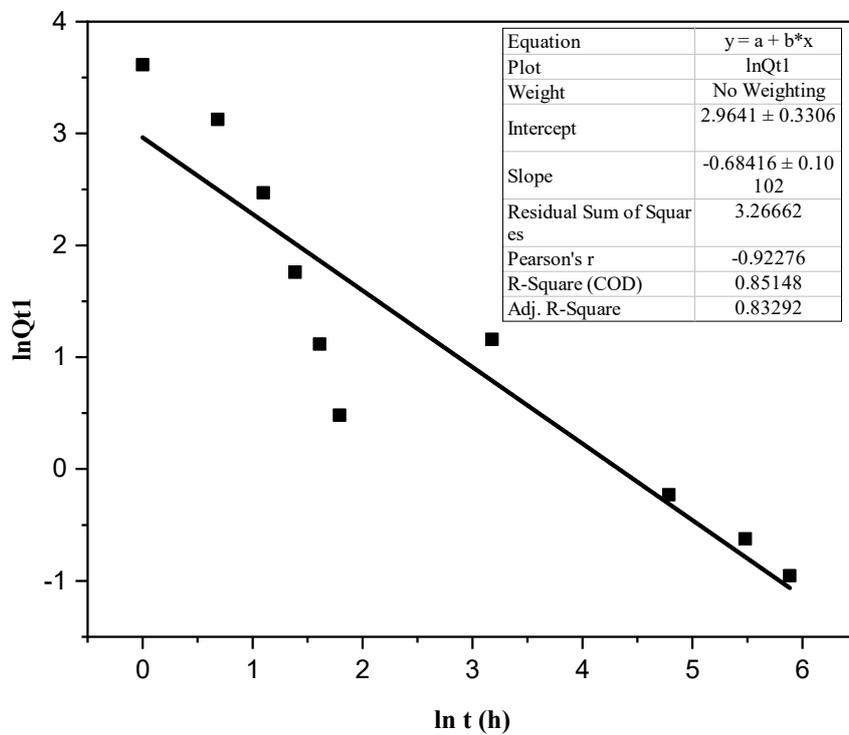


Figure S1. Graph of Zero order kinetic model of $\ln Q_i$ vs. $\ln t$ for SRF1 in water.

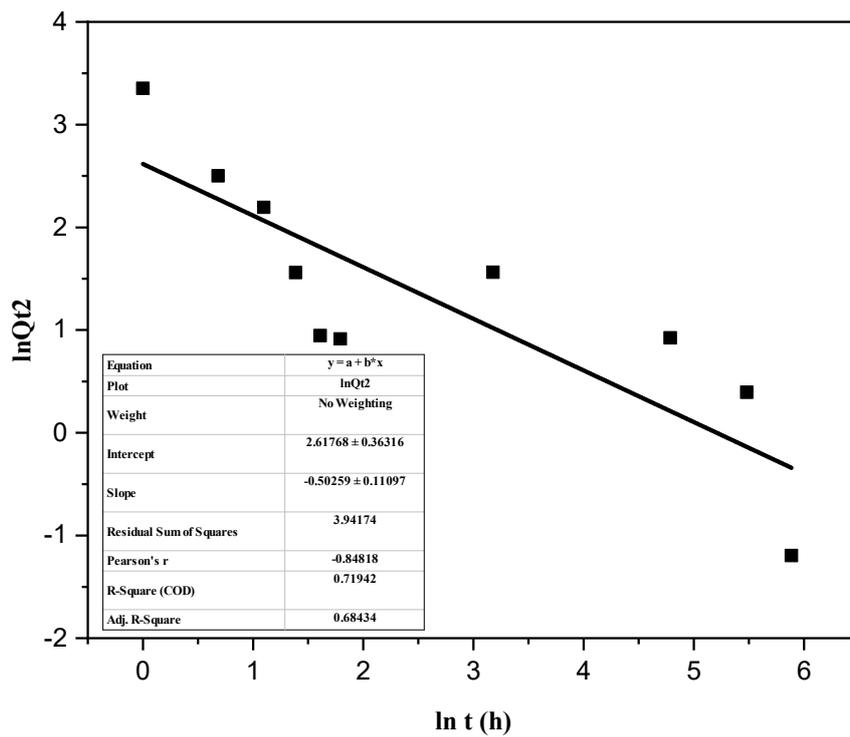


Figure S2. Graph of Zero order kinetic model of $\ln Q_t$ vs. $\ln t$ SRF2 in water.

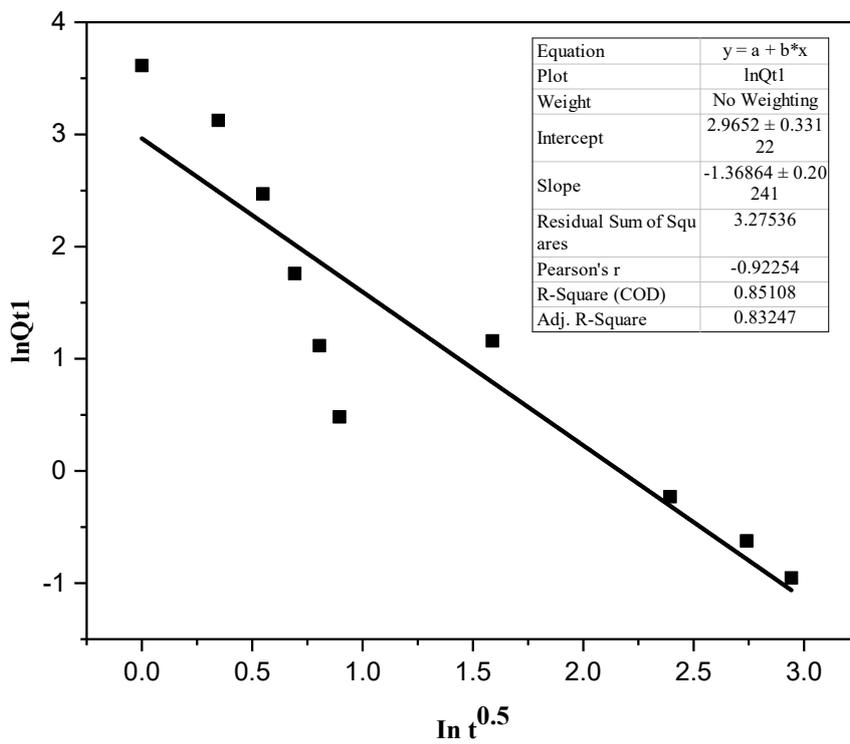


Figure S3. Graph of Higuchi model of $\ln Q_t$ vs. $\ln t^{0.5}$ for SRF1 in water.

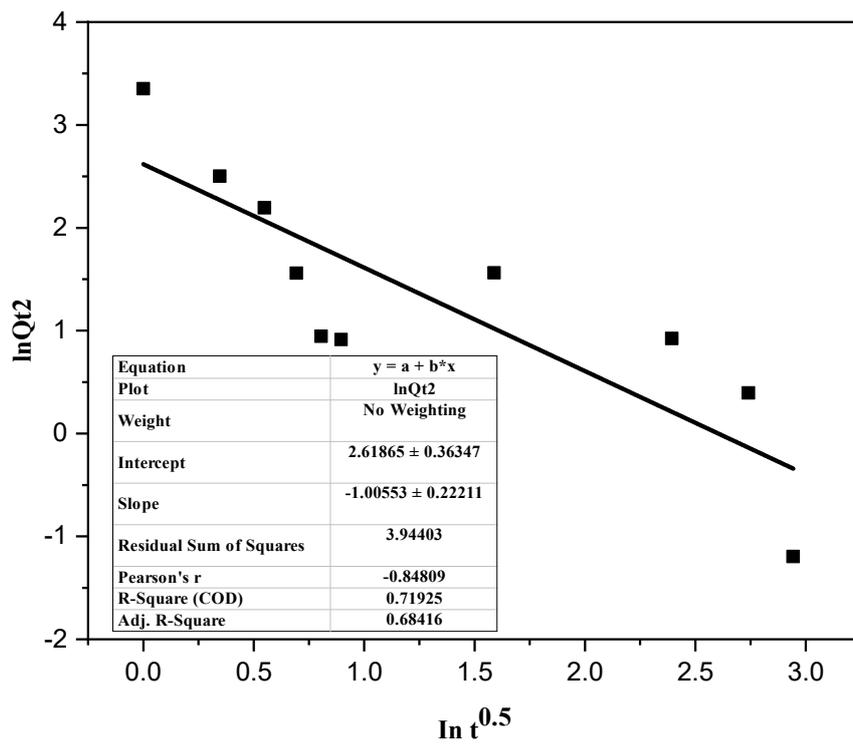


Figure S4. Graph of Higuchi model of $\ln Qt$ vs. $\ln t^{0.5}$ for SRF2 in water.

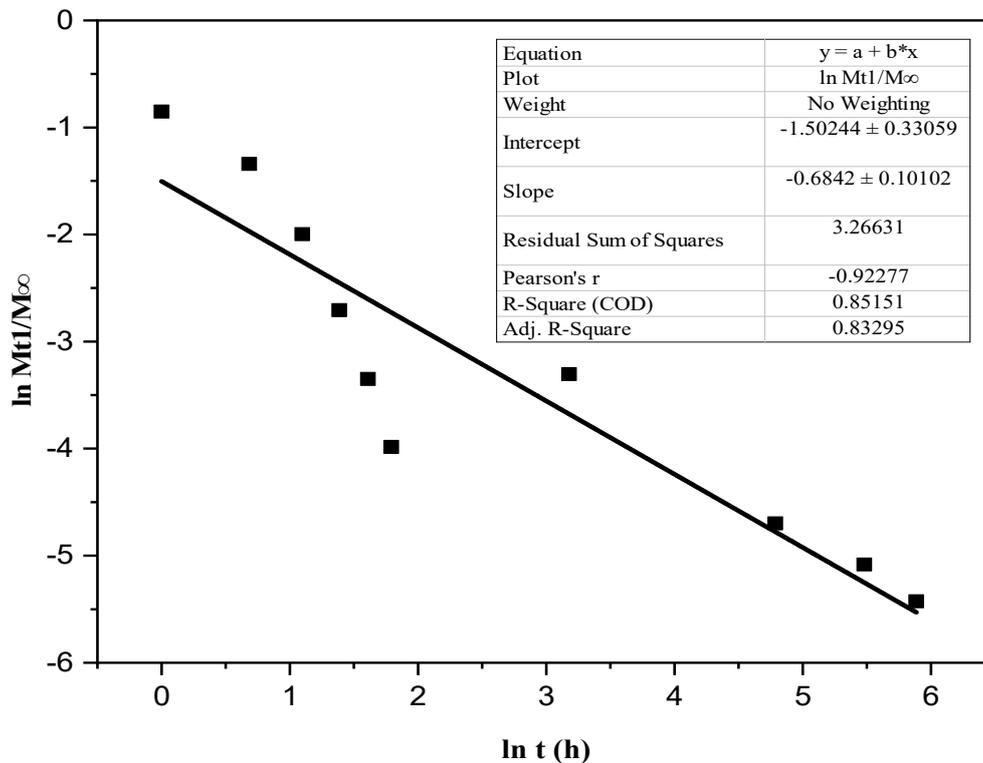


Figure S5. Graph of Korsmeyer-Peppas of $\ln Mt/M_\infty$ vs. $\ln t$ for SRF1 in water.

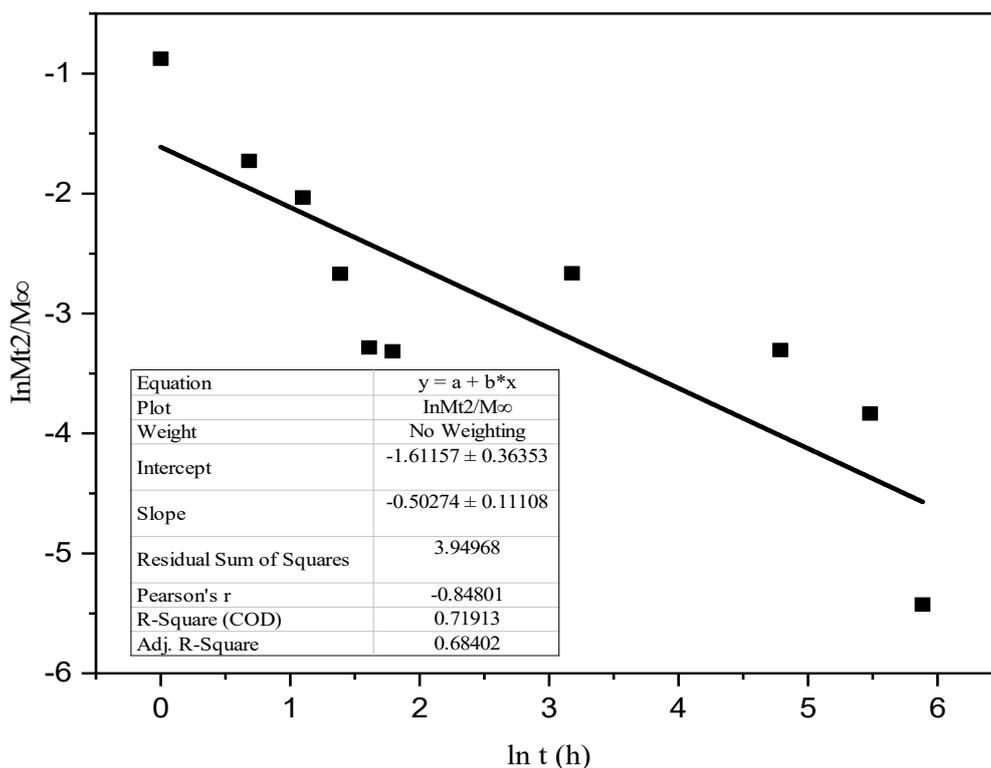


Figure S6. Graph of Korsmeyer-Peppas of $\ln Mt/M_\infty$ vs. $\ln t$ for SRF2 in water.

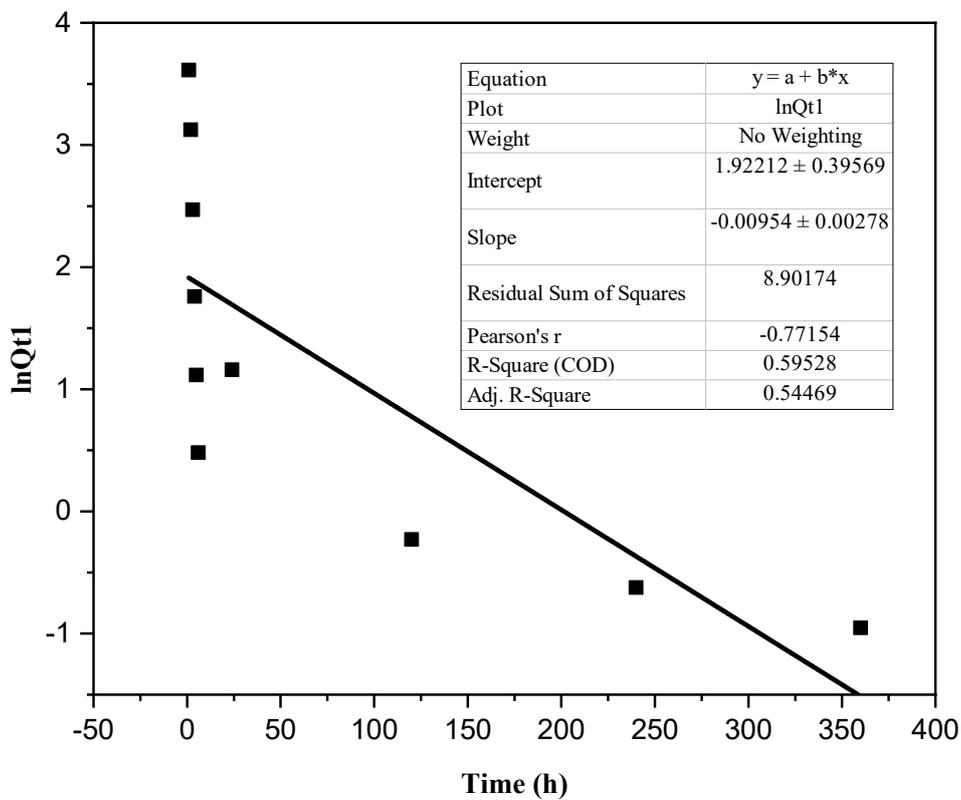


Figure S7. Graph of First order kinetic model of $\ln Qt$ vs. Time for SRF 1 in water.

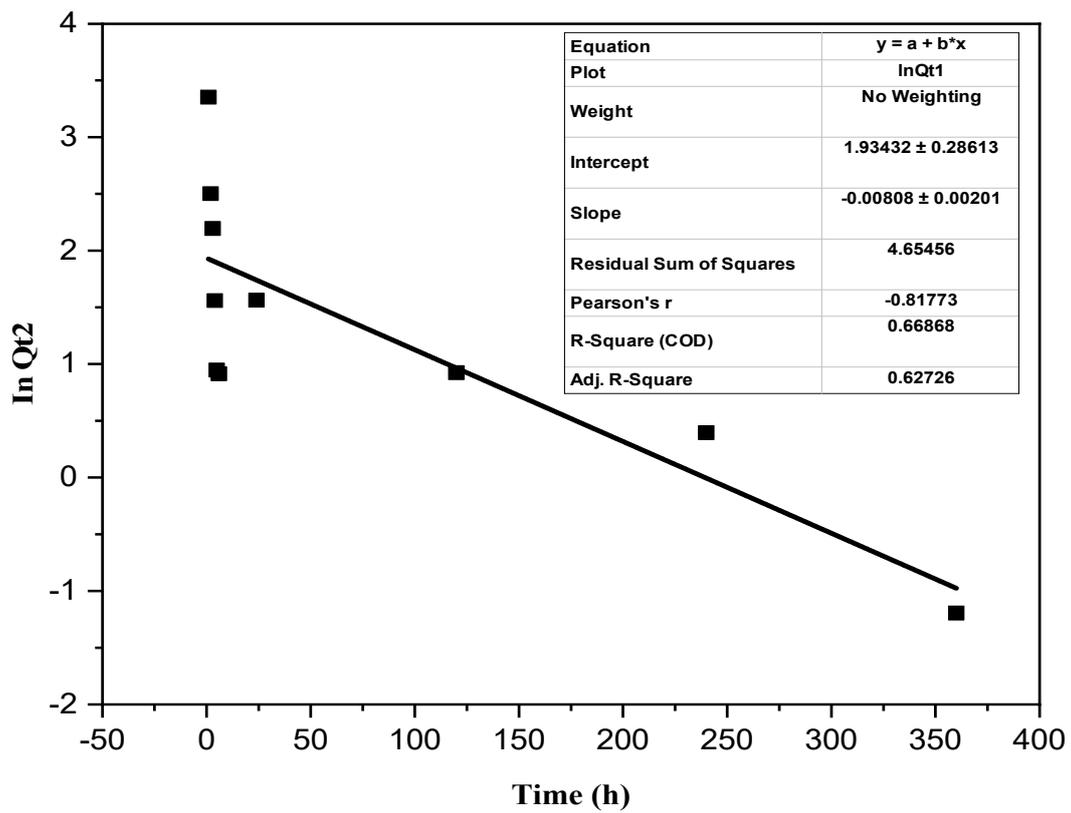


Figure S8. Graph of First order kinetic model of ln Qt vs. Time for SRF 2 in water.

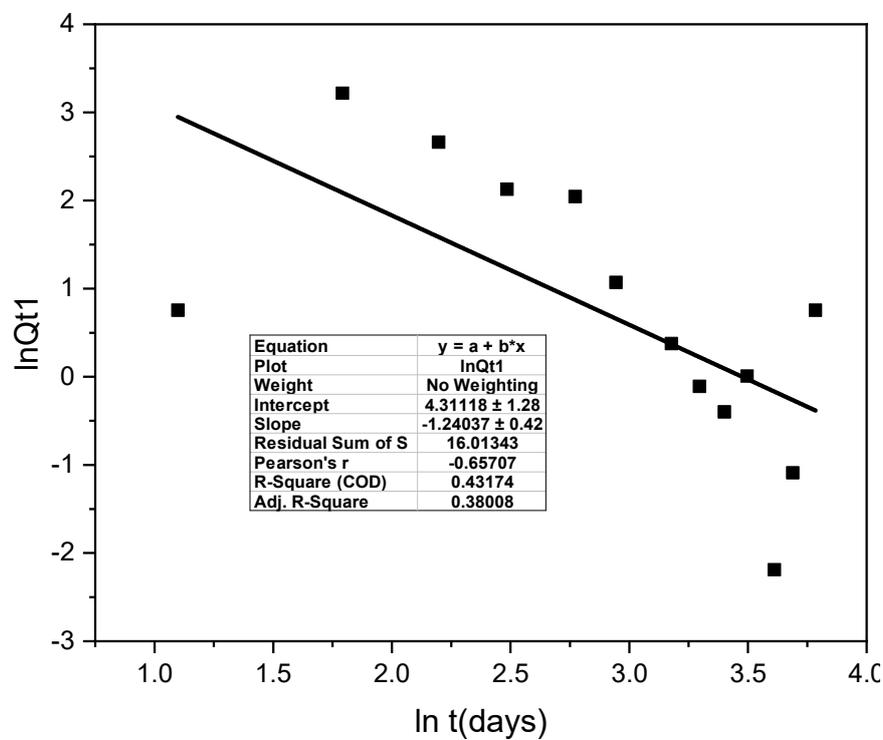


Figure S9. Graph of Zero order kinetic model of ln Qt vs. ln t for SRF1 in soil.

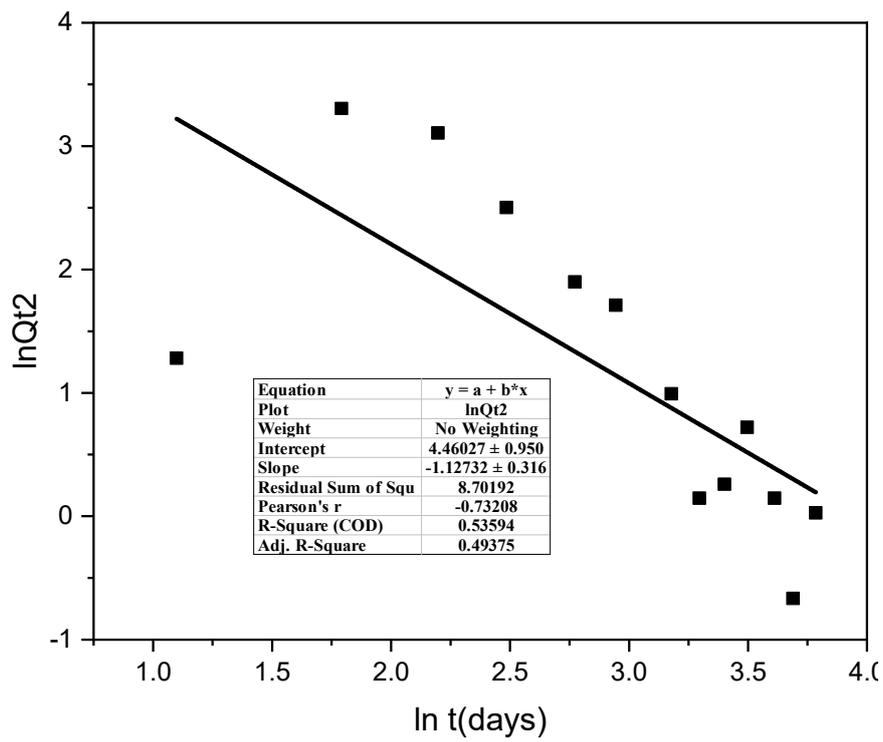


Figure S10. Graph of Zero order kinetic model of ln Qt vs. ln t for SRF2 in soil.

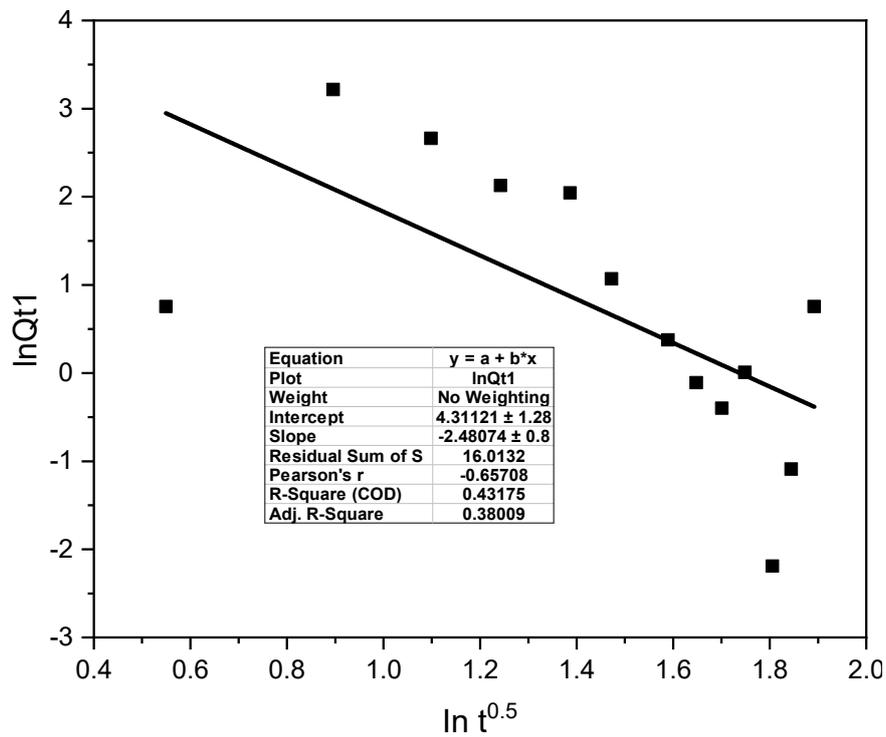


Figure S11. Graph of Higuchi model of ln Qt vs. ln t^{0.5} for SRF1 in soil.

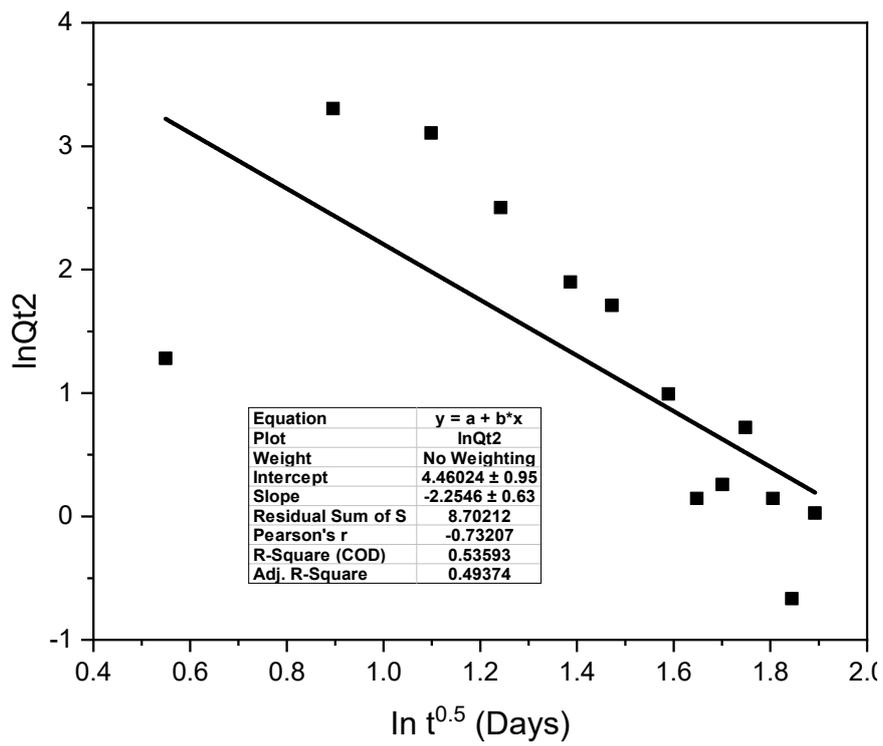


Figure S12. Graph of Higuchi model of $\ln Qt$ vs. $\ln t^{0.5}$ for SRF2 in soil.

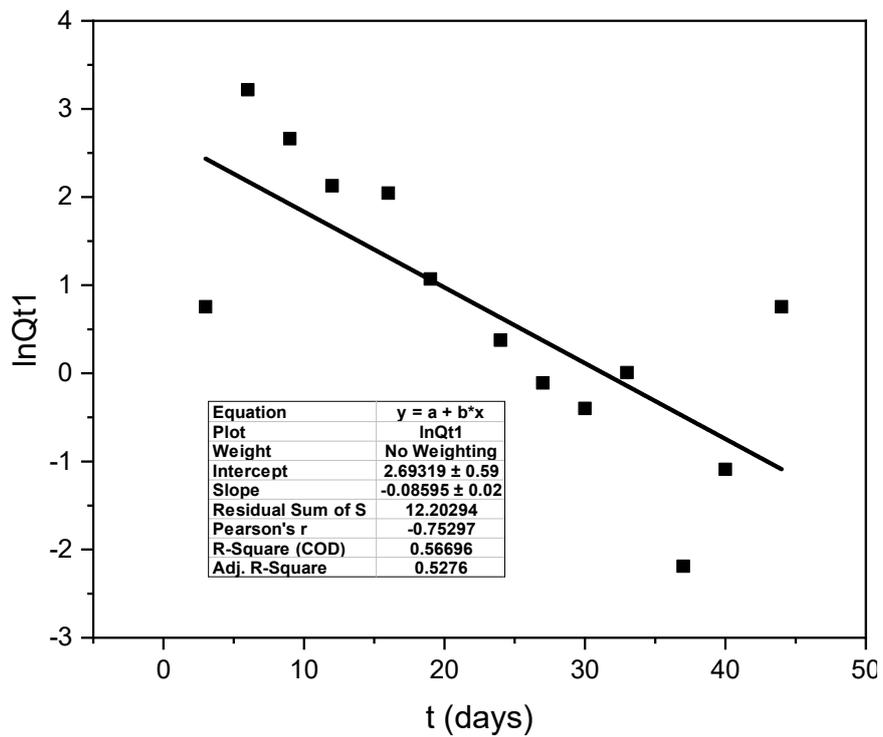


Figure S13. Graph of First order kinetic model of $\ln Qt$ vs. Time for SRF 1 in water.

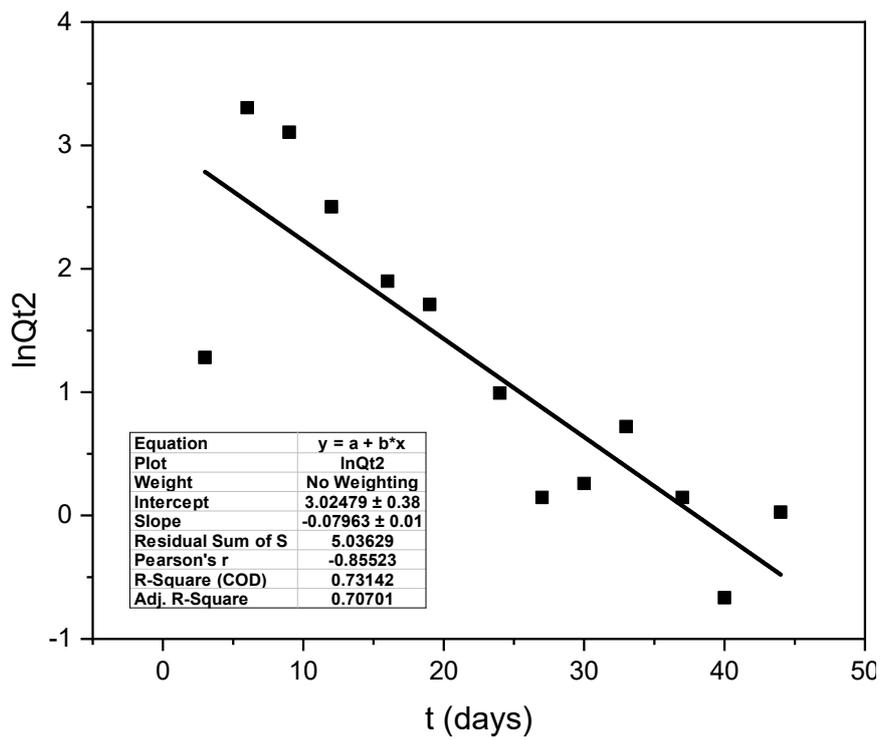


Figure S14. Graph of First order kinetic model of ln Qt vs. Time for SRF 2 in water.

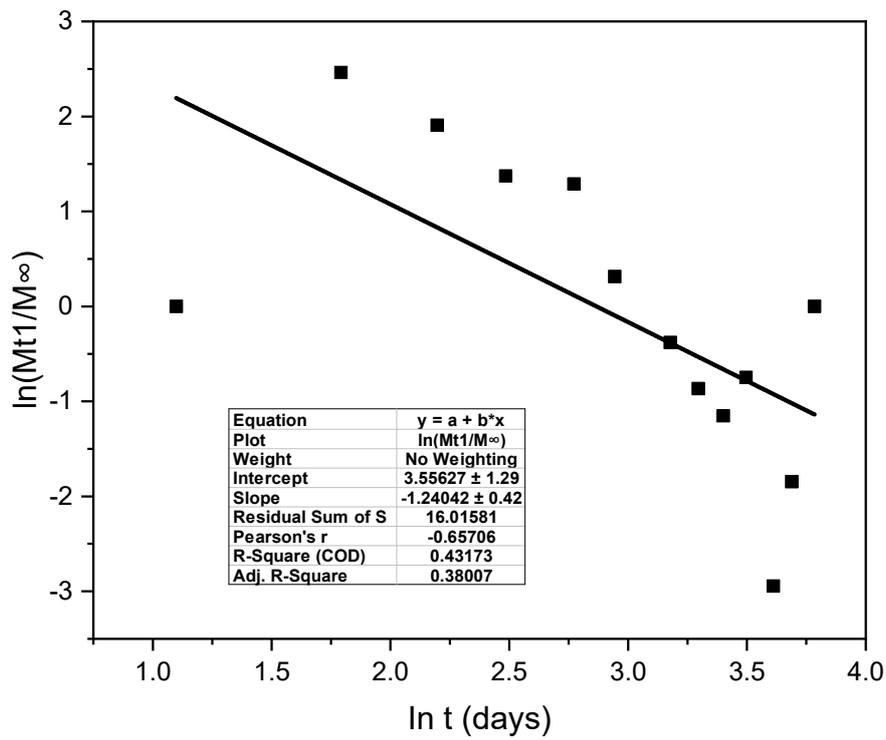


Figure S15. Graph of Korsmeyer-Peppas of ln Mt/ M ∞ vs. ln t for SRF1 in soil.

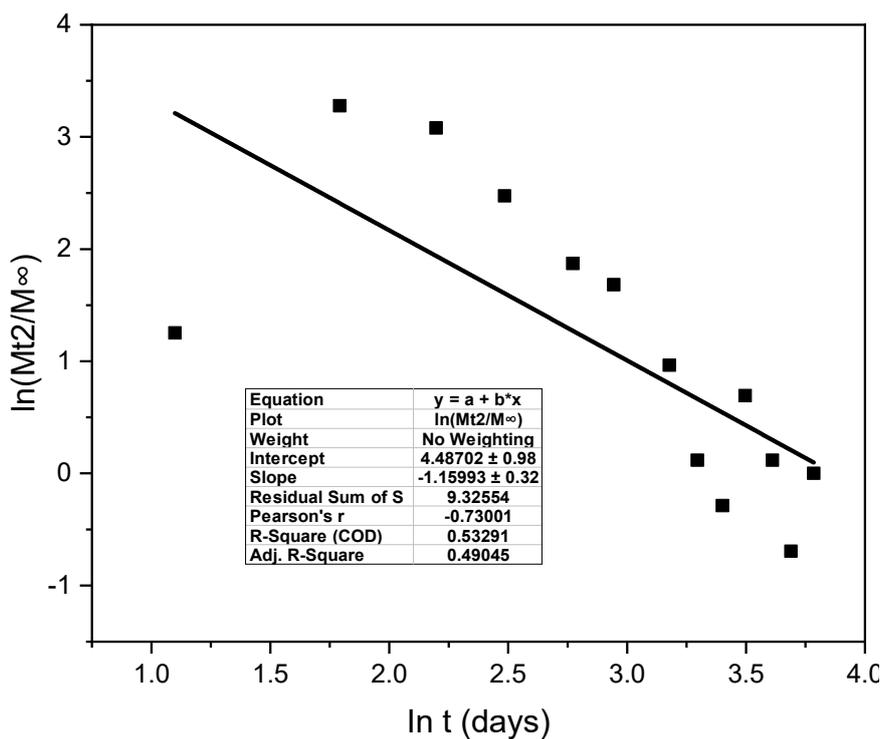


Figure S16. Graph of Korsmeyer-Peppas of $\ln Mt/M\infty$ vs $\ln t$ for SRF2 in soil.



Sample ID:	BP	Method Name:	Default
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Background Scans:	32	Date/Time:	2/13/2021 1:44:26PM
Resolution:	8 cm-1	Range:	4,000.00 - 650.00
System Status:	Good	Apodization:	Happ-Genzel
File Location:	C:\Program Files\Agilent\MicroLab PC\Results\BP_2021-02-13T13-44-51.a2r		

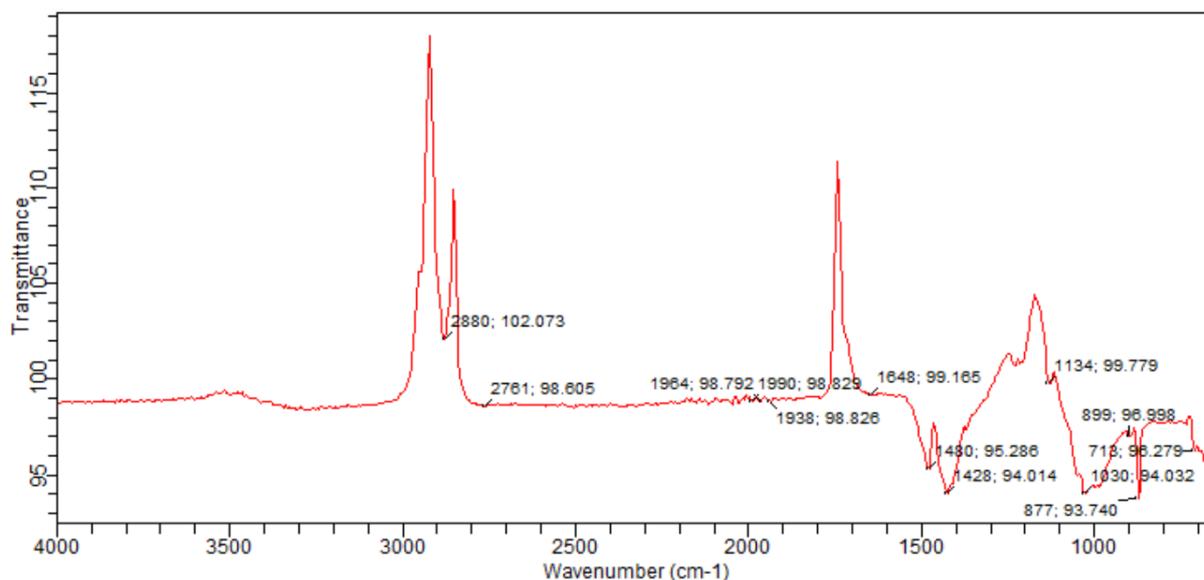


Figure S17. FTIR spectra of blended paper.