

Supplementary Materials: Impact of modification in potassium hydroxide on porous semi-IPN hydrogel properties and its application in cultivation

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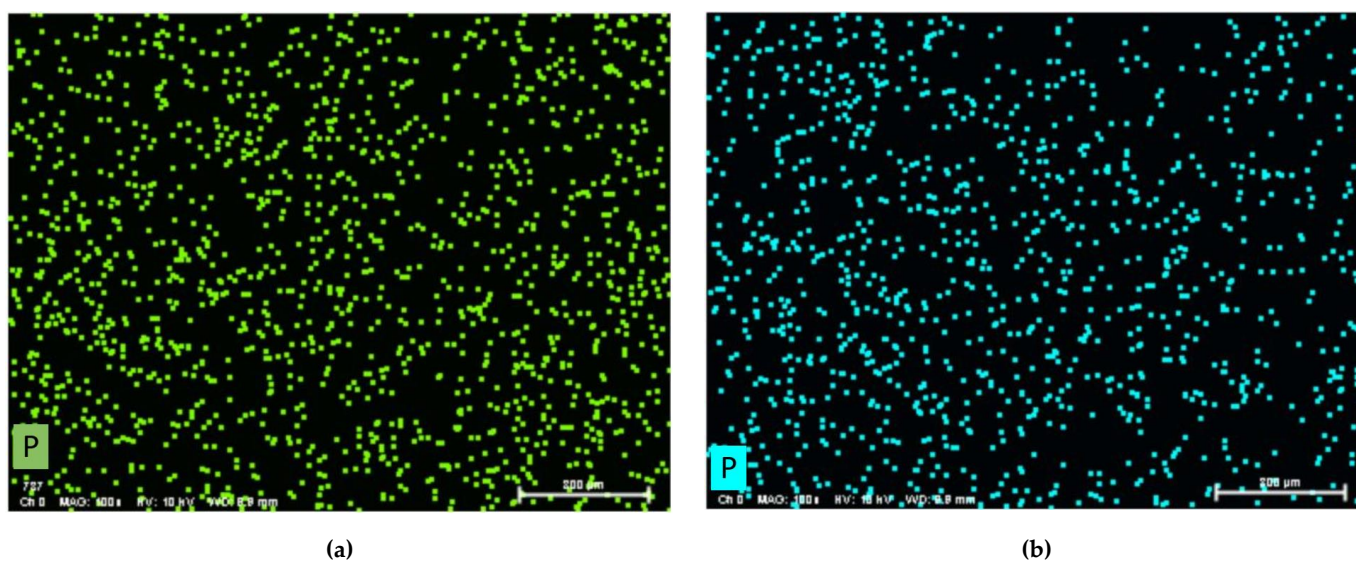


Figure S1. EDX mapping image of P element in (a) PF/SH, and (b) PF/SB hydrogel

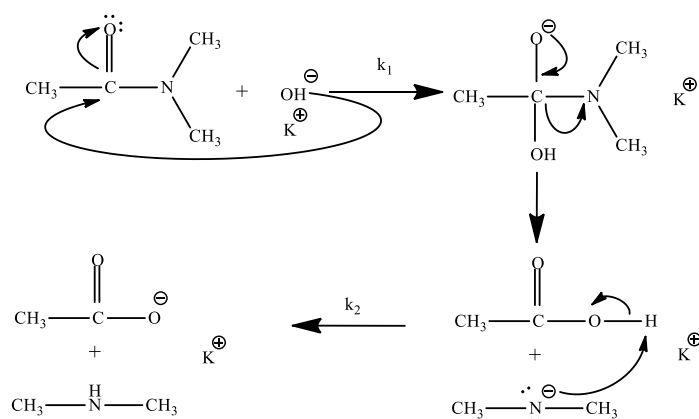


Figure S2. Mechanism of hydrolysis of the amide group in KOH.

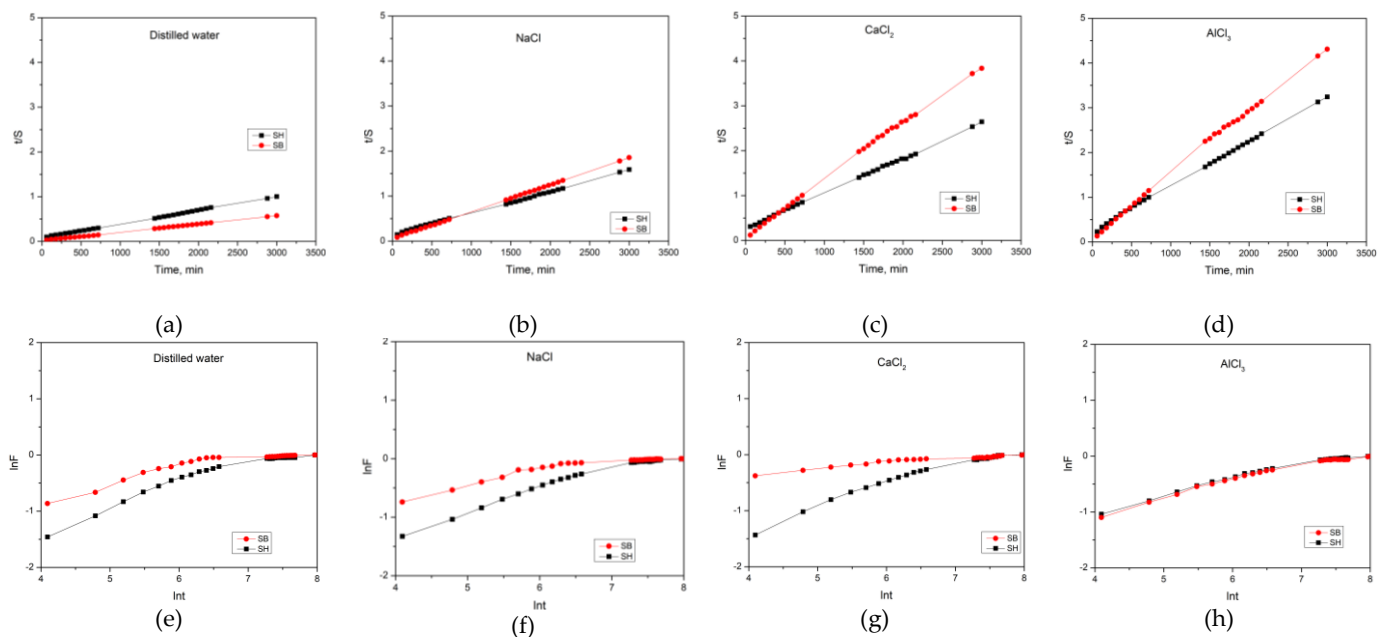
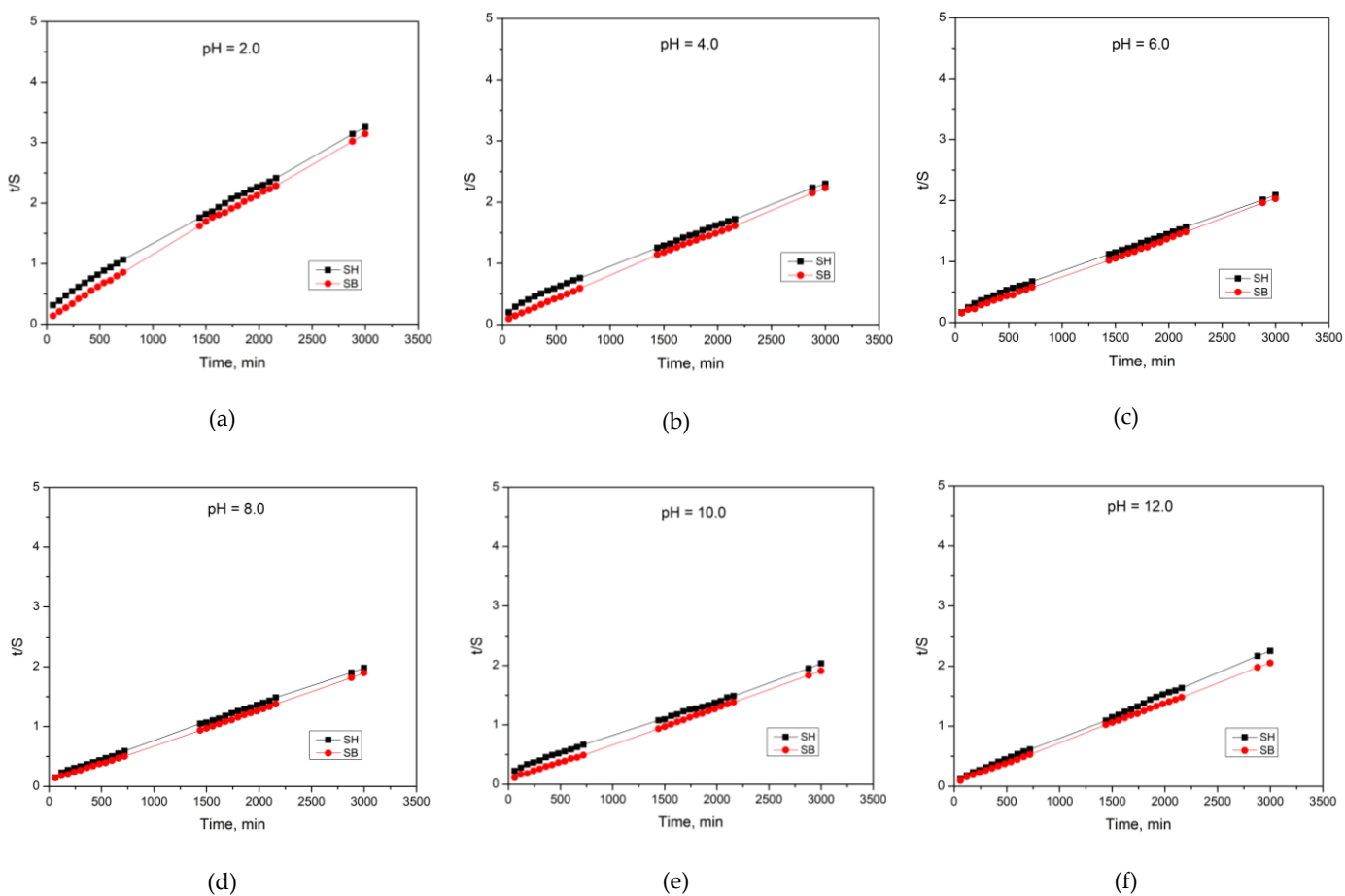


Figure S3. (a-d) the plot of t/S vs. t , and (e-h) the plot of $\ln F$ vs. Int of hydrogels in water and salt environments.



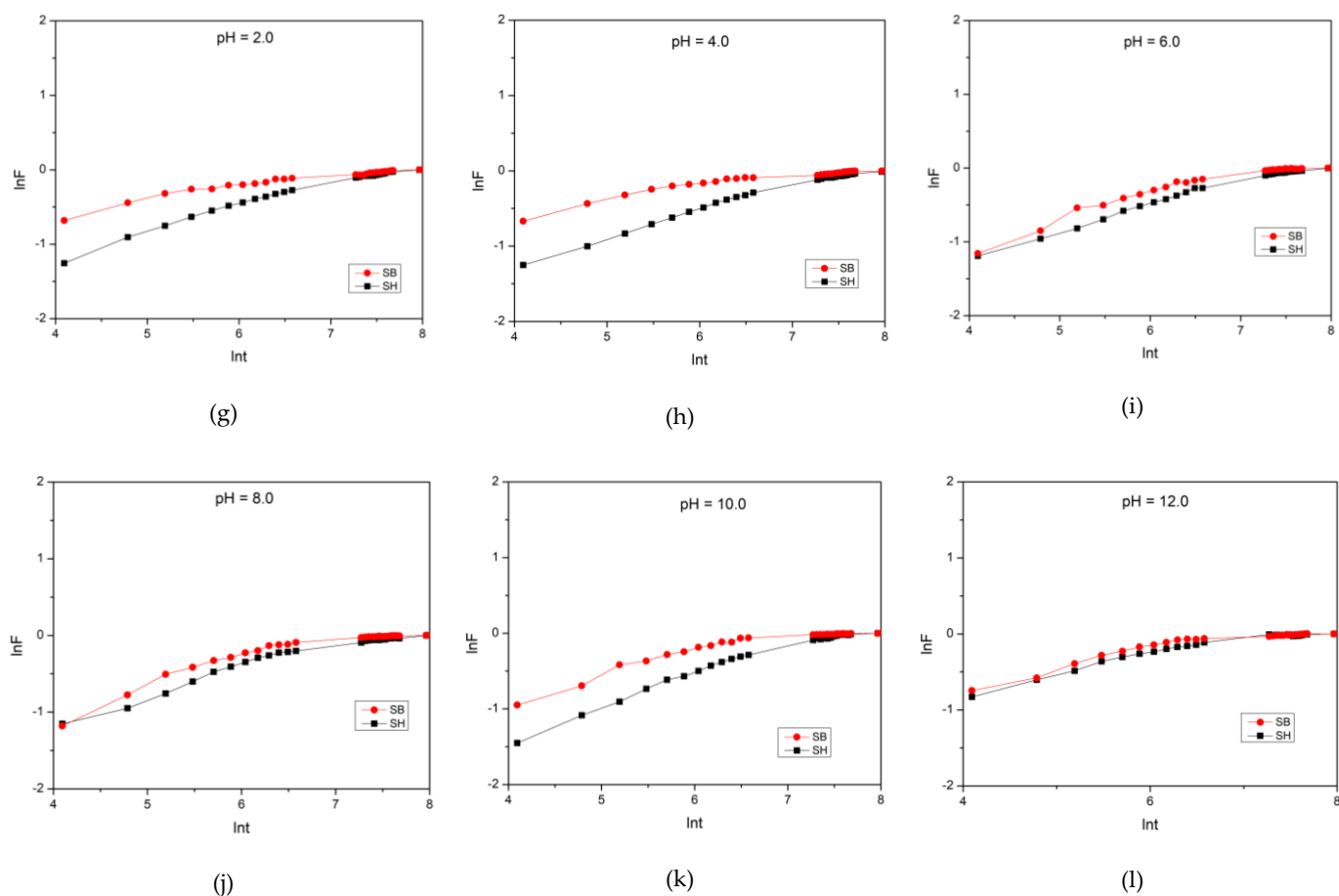


Figure S4. (a-f) the plot of t/S vs. t , and (g-l) the plot of $\ln F$ vs. $\ln t$ of hydrogels in pH buffer solutions.

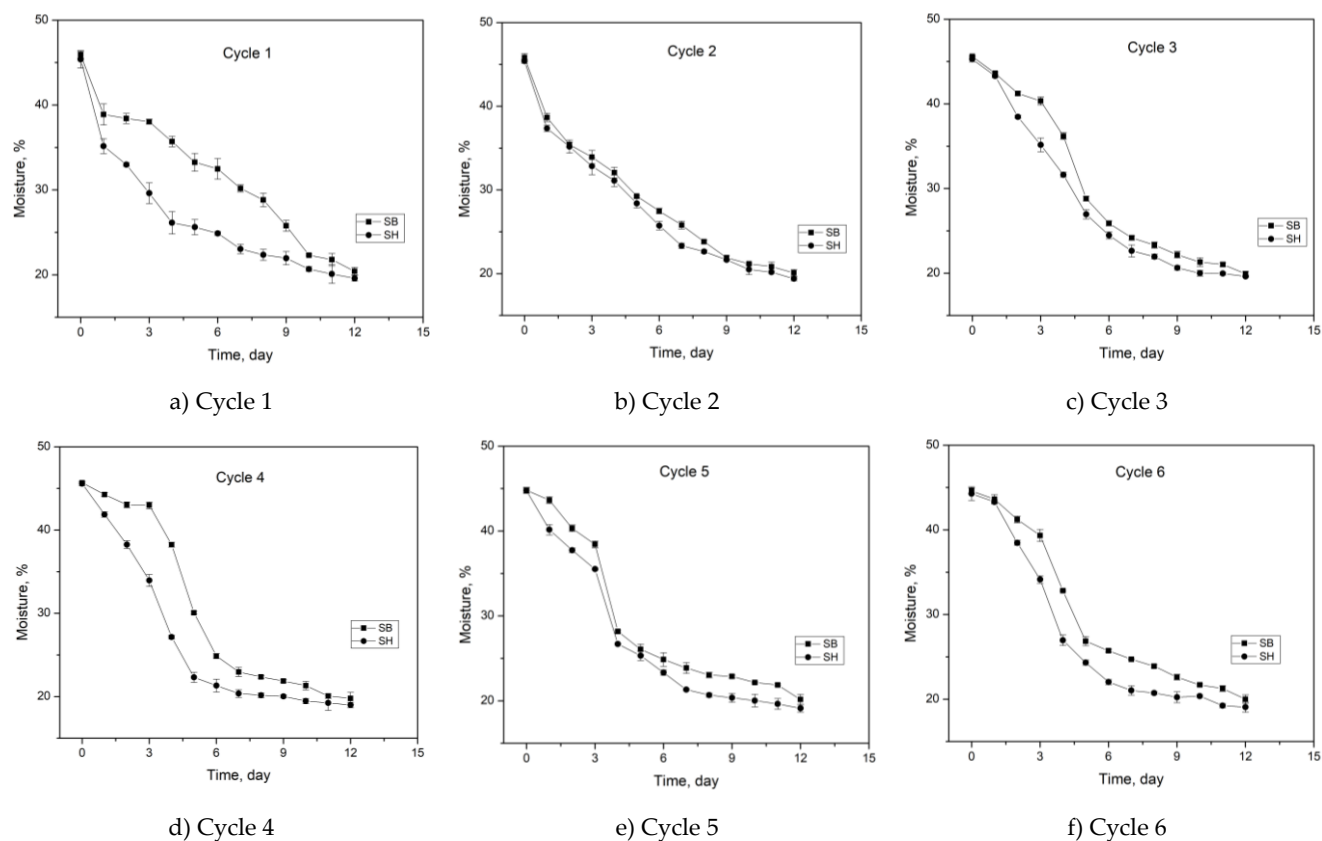


Figure S5. The moisture content of soil/SH and soil/SB as a function of time over six experimental cycles.

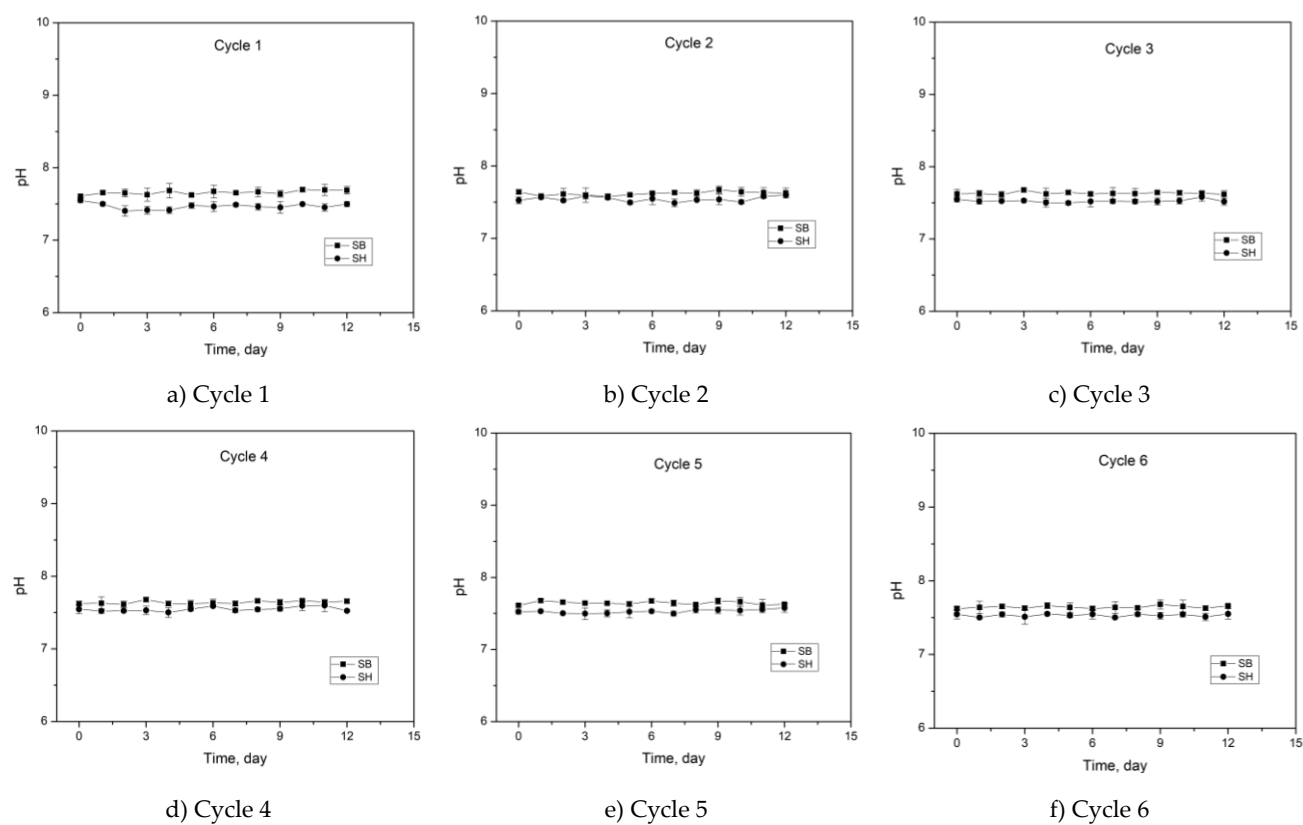


Figure S6. pH values of soil/SH and soil/SB as function of time over six experimental cycles.