

Supporting Information

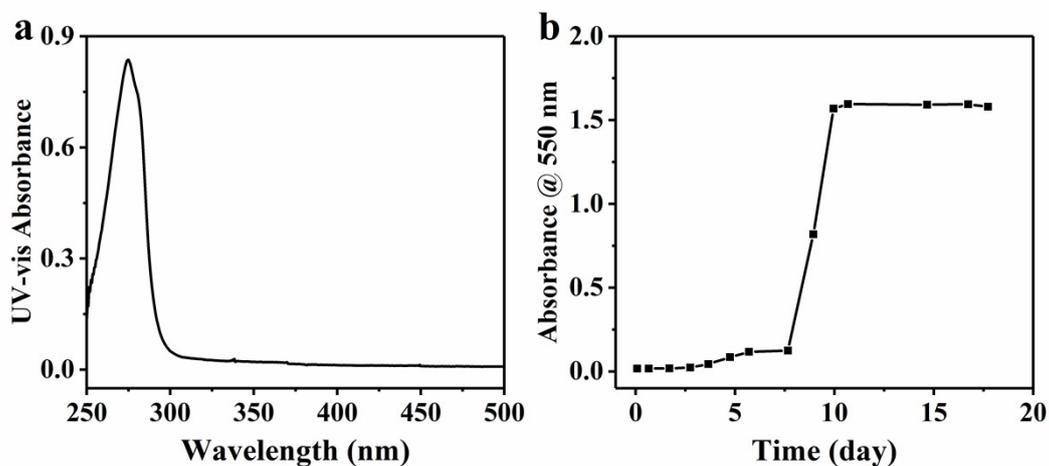


Figure S1. (a) UV-vis absorption curve of silk fibroin; (b) Absorbance at 550 nm change of silk fibroin solution during natural gelation process.

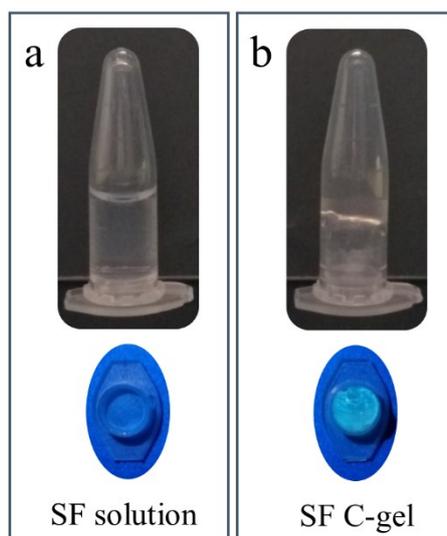


Figure S2. Optical images of SF sol (a) and SF C-gel (b); SF C-gel exhibited blue fluorescence when irradiated with UV light while that did not happen to SF sol.

Table S1. Contents of β -components in SF solution, SF C-gel and SF P-gel.

	SF sol	SF C-gel	SF P-gel
β -sheet	18.90%	20.87%	35.67%
β -crystallite	12.86%	18.88%	41.41%

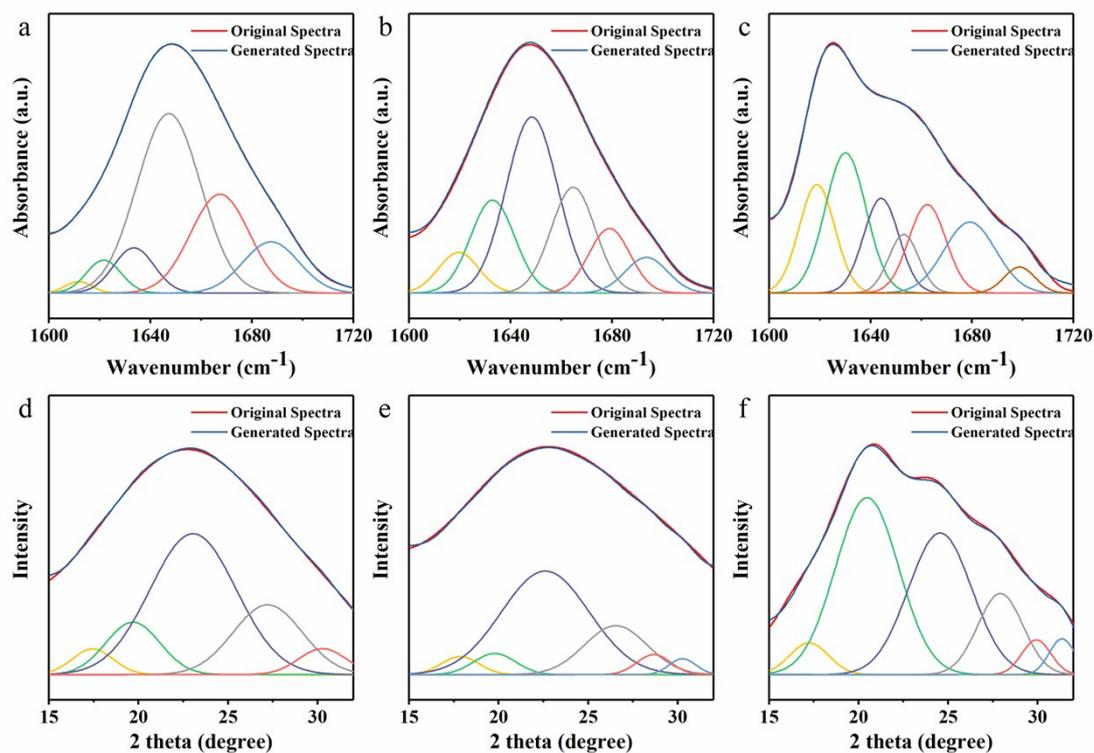


Figure S3. Fourier self-deconvolution (FSD) of the FTIR and XRD of SF solution (a, d), SF C-gel (b, e) and SF P-gel (c, f).

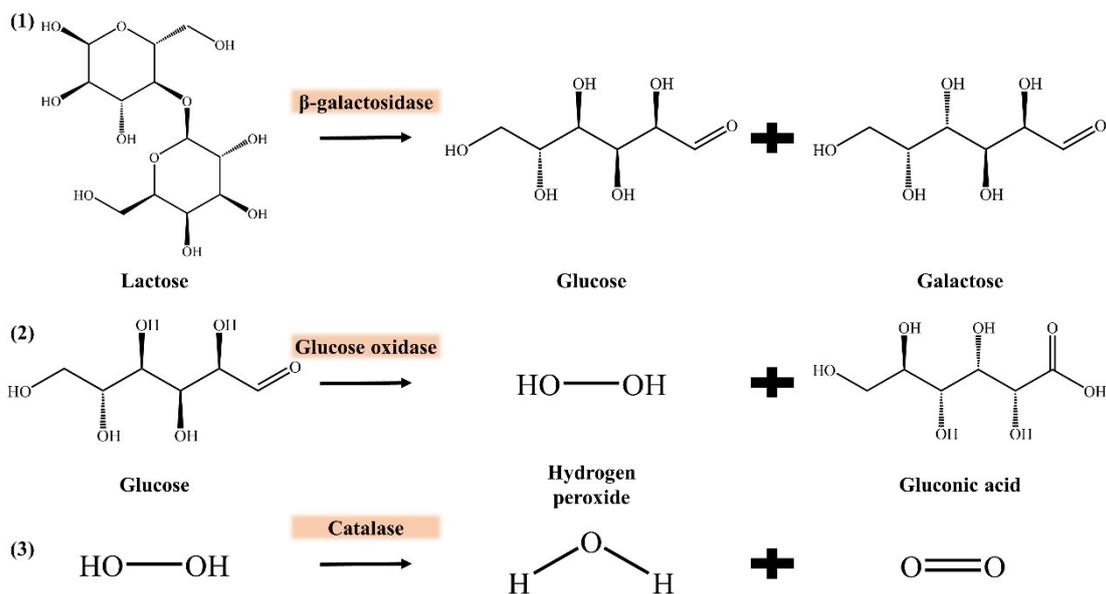


Figure S4. Catalytic mechanisms of all used enzymes.