Characterization of PVPK90 core shell nanofibers containing curcumin prepared by emulsion electrospinning process

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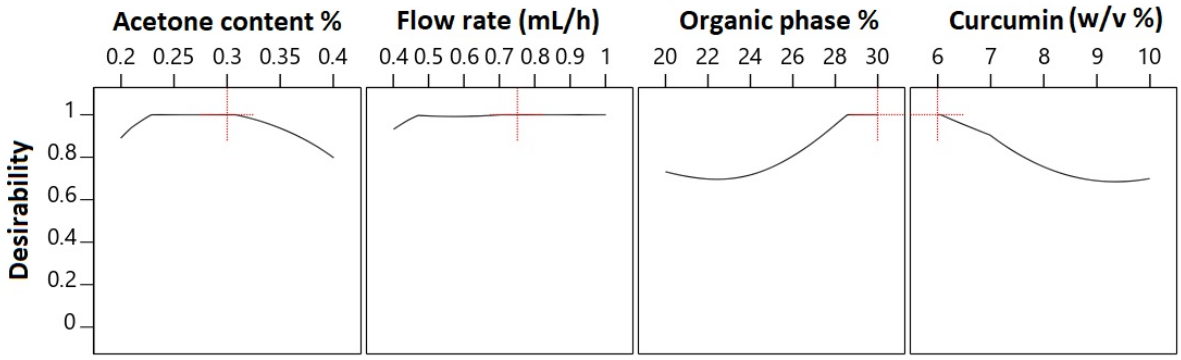
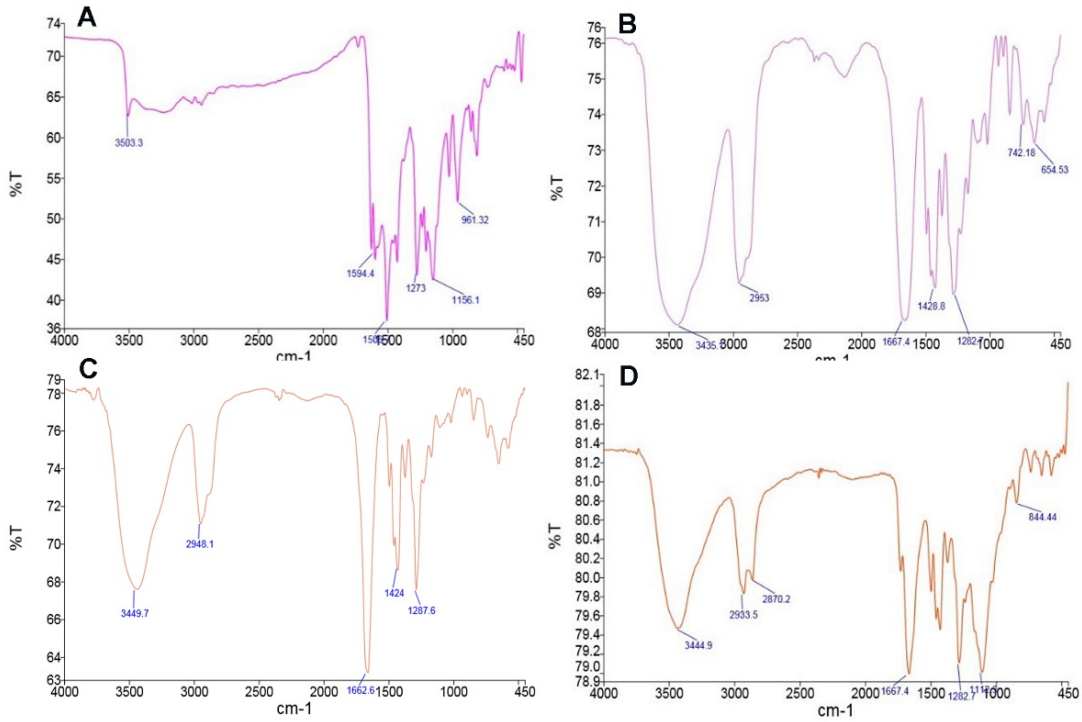
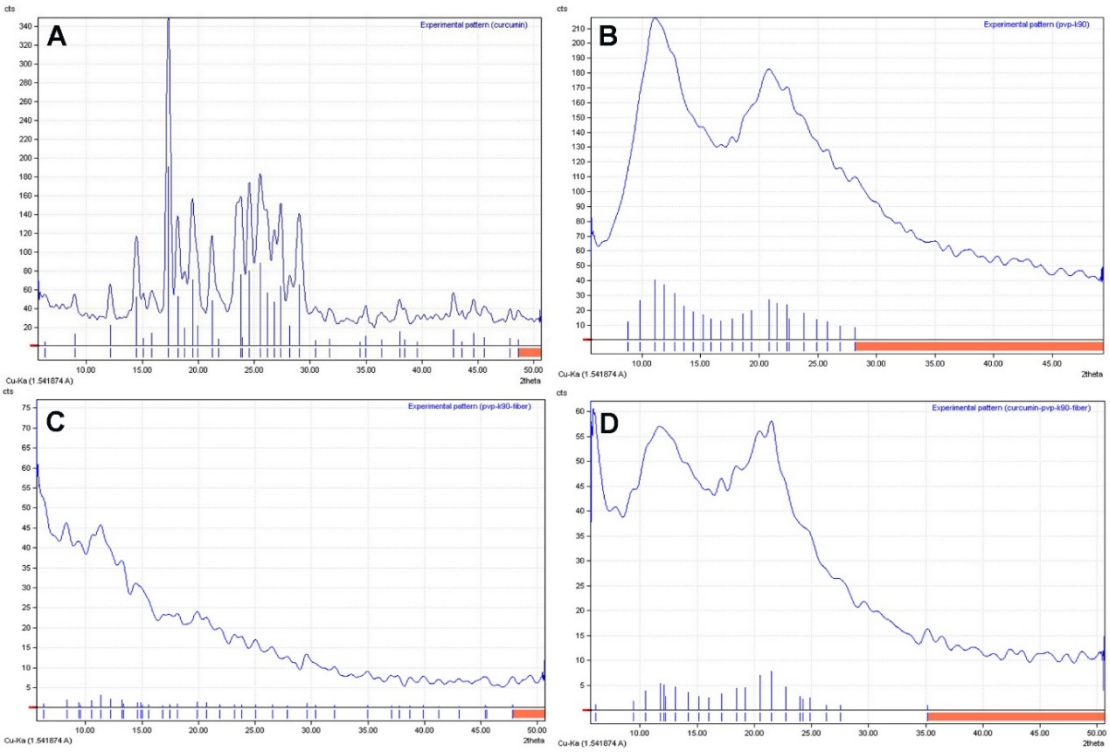


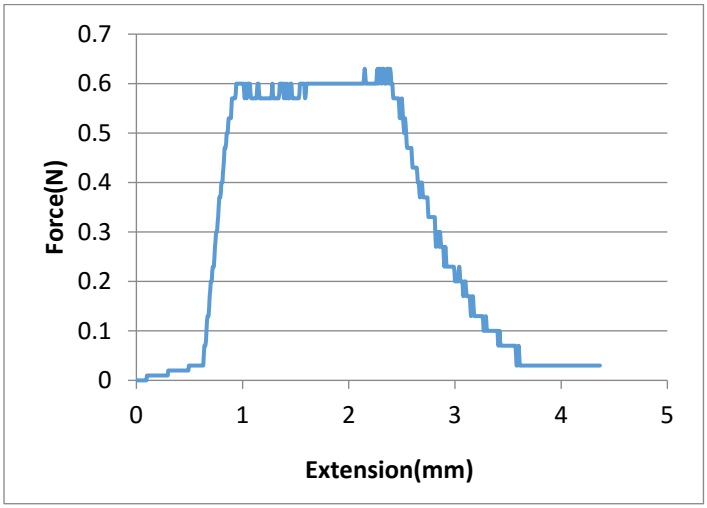
Supplementary Fig. S1. Contour plot of desirability function.



Supplementary Fig. S2. FTIR absorption spectra of (A) CUR, (B) PVPK90, (C) PVPK90 nanofibers, and (D) nanofibers loaded with CUR.



Supplementary Fig. S3. XRD of (A) CUR, (B) PVPK90, (C) PVP nanofibers, and (D) nanofibers loaded with CUR.



Supplementary Fig. S4. The force-displacement diagram of optimal formulation.

Supplementary Table s1. The p-value for the mathematical models estimated for study responses by Design expert

	Fiber diameters (nm)	Loading content (%)	Wetting time (s)	Disintegration Time (s)
Intercept	< 0.0001	< 0.0001	< 0.0001	< 0.0001
A	0.5753	0.7656	0.1951	0.4476
B	0.2361	0.9955	0.0040	0.0644
C	0.7696	0.4013	0.0242	0.0015
D	0.3685	0.6703	0.0811	0.4593
A × B	0.0965	0.4893	0.0489	0.8749
A × C	0.0066	0.0403	0.0455	0.0549
A × D	0.8928	0.8494	0.0078	0.8705
B × C	0.3902	0.6238	0.8860	0.0013
B × D	0.9969	0.3566	0.9099	0.0252
C × D	0.0089	0.0496	0.1454	0.0296
A^2	0.0355	0.1052	0.3762	0.5862
B^2	0.3000	0.1524	0.1277	0.0257
C^2	0.4283	0.0352	0.0073	0.9969
D^2	0.2520	0.1341	0.1124	0.0827

Supplementary data legends:

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