

Supplementary Materials

HPMC/PVP K90 Dissolving Microneedles Fabricated from 3D-Printed Master Molds: Impact on Microneedle Morphology, Mechanical Strength, and Topical Dissolving Property

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Table S1. MN structures of H5, H5iP1, H5iP2, H52P1, H50, H50iP1, H50iP2, H502P1, H90, H90iP1, H90iP2, H902P1 using SEM at 30× magnification.

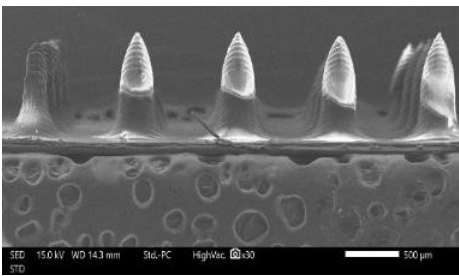
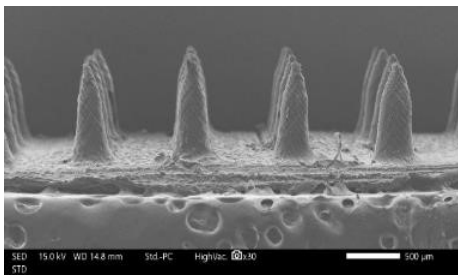
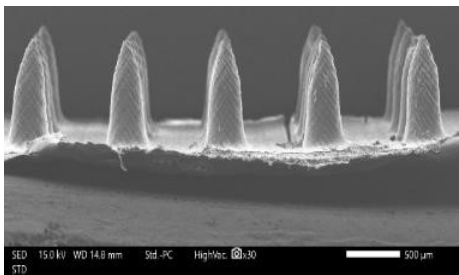
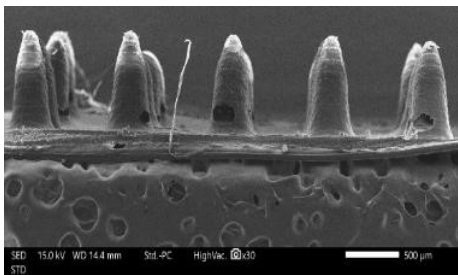
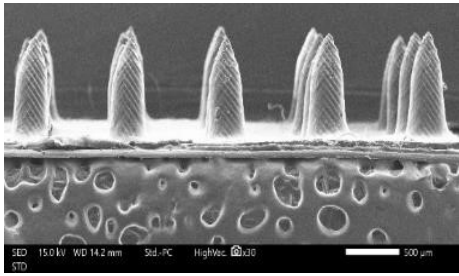
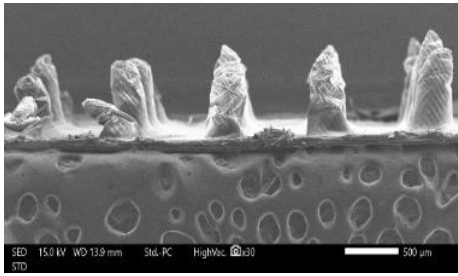
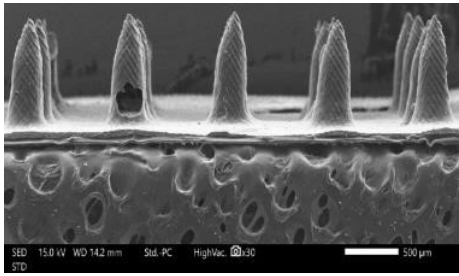
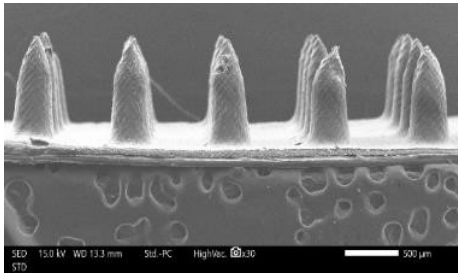
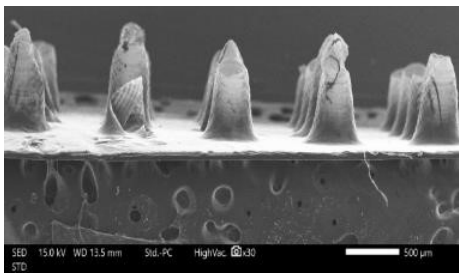
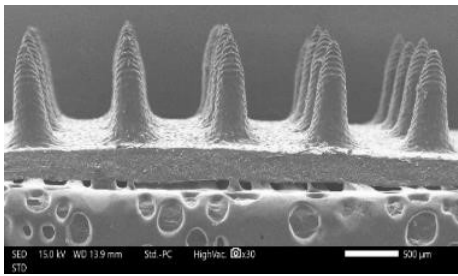
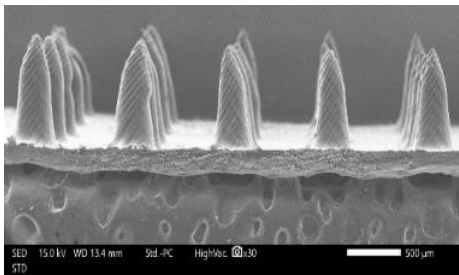
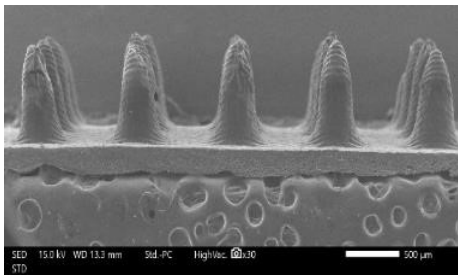
Sample Code	SEM (X 30)	Sample Code	SEM (X 30)
H5		H50iP2	
H5iP1		H502P1	

Table S1. MN structures of H5, H5iP₁, H5iP₂, H5₂P₁, H50, H50iP₁, H50iP₂, H50₂P₁, H90, H90iP₁, H90iP₂, H90₂P₁ using SEM at 30× magnification (cont.).

Sample Code	SEM (X 30)	Sample Code	SEM (X 30)
H5iP ₂		H90	
H5 ₂ P ₁		H90iP ₁	
H50		H90iP ₂	
H50iP ₁		H90 ₂ P ₁	

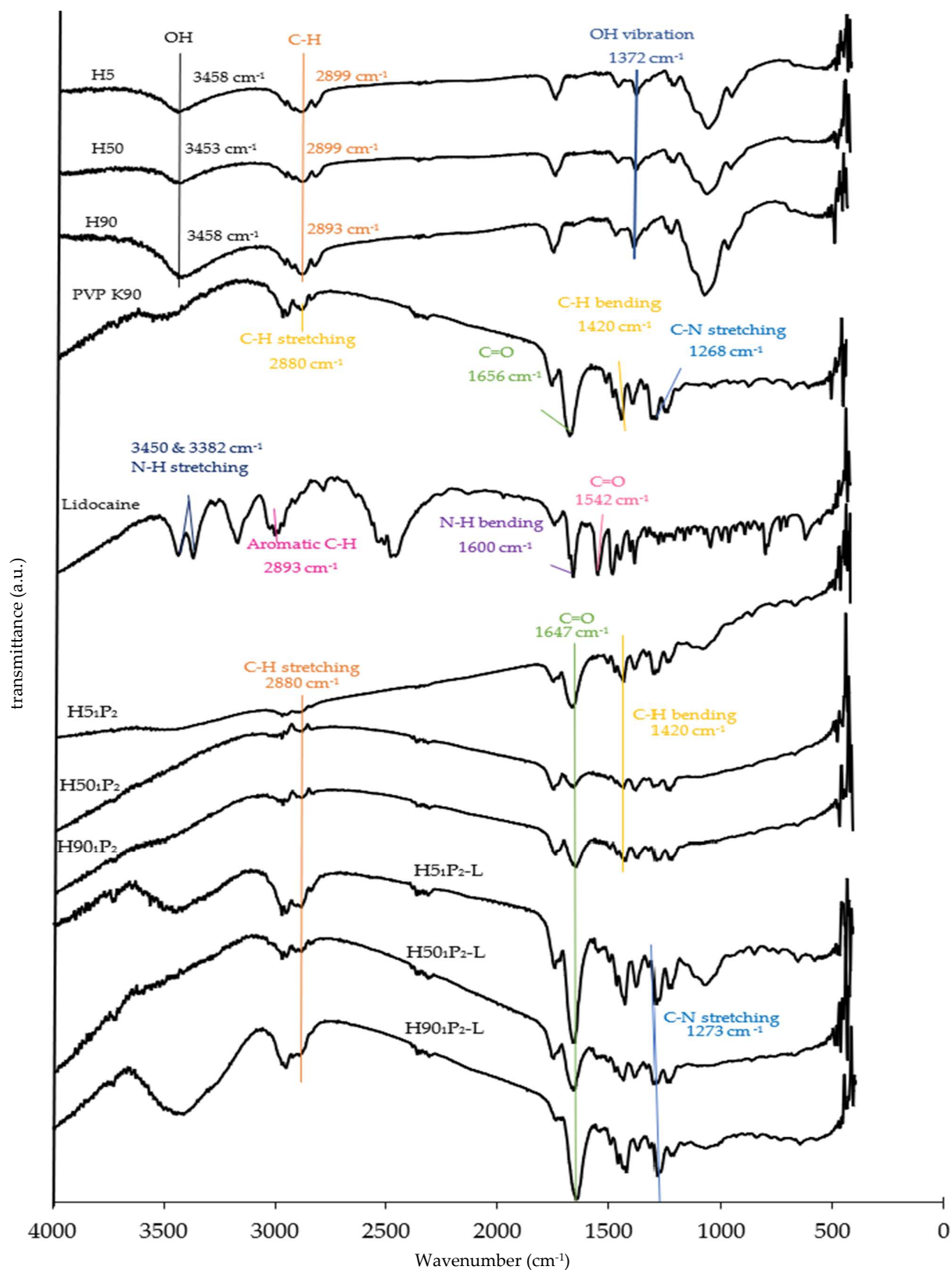


Figure S1. FTIR spectra of H5, H50, H90, PVP K90, lidocaine HCl, H5₁P₂, H50₁P₂, H90₁P₂, H5₁P₂-L, H50₁P₂-L, and H90₁P₂-L in a transmittance mode from 400–4000 cm⁻¹.