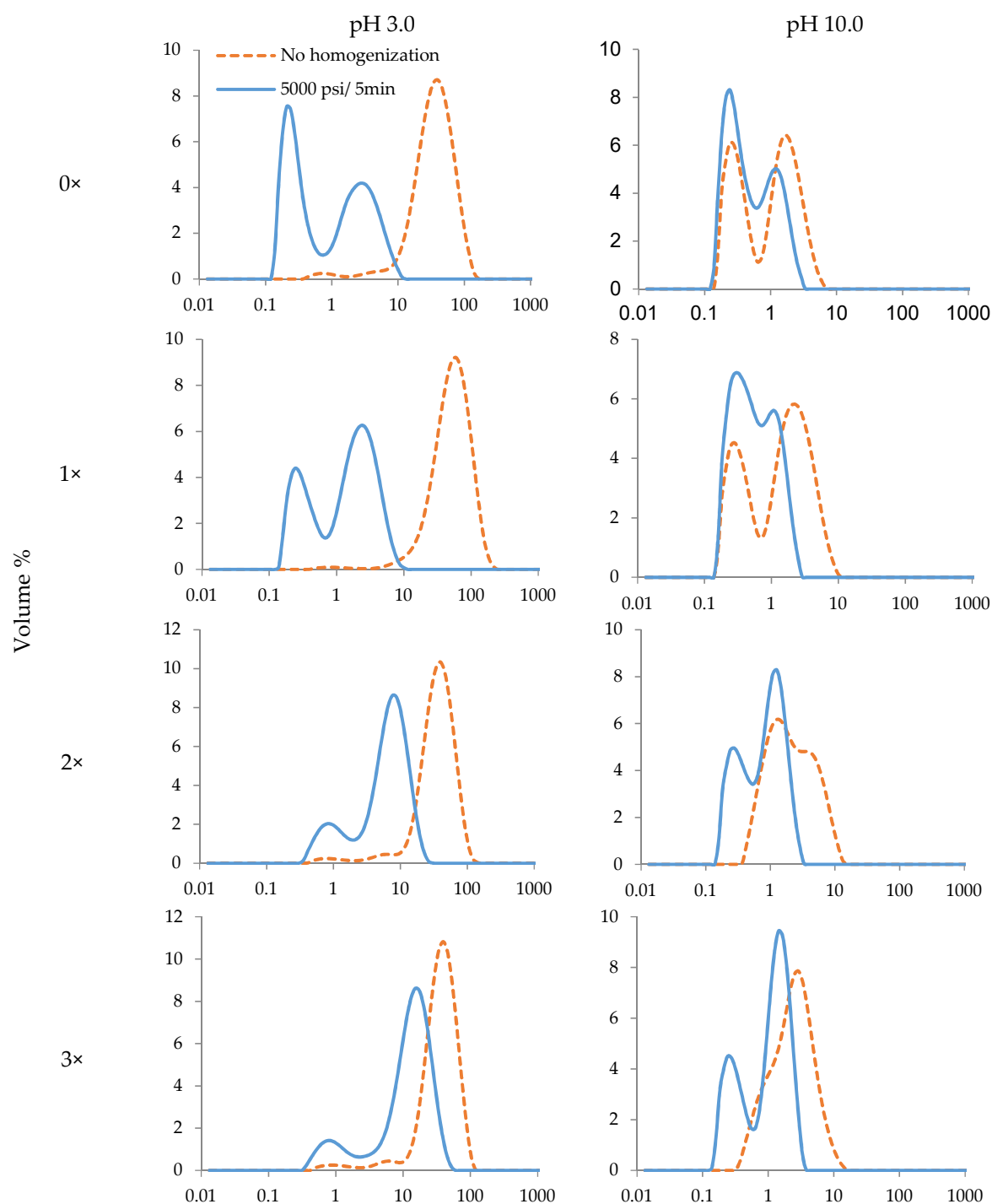


Supplementary data

Formation and Stability of Pea Proteins Nanoparticles Using Ethanol-Induced Desolvation

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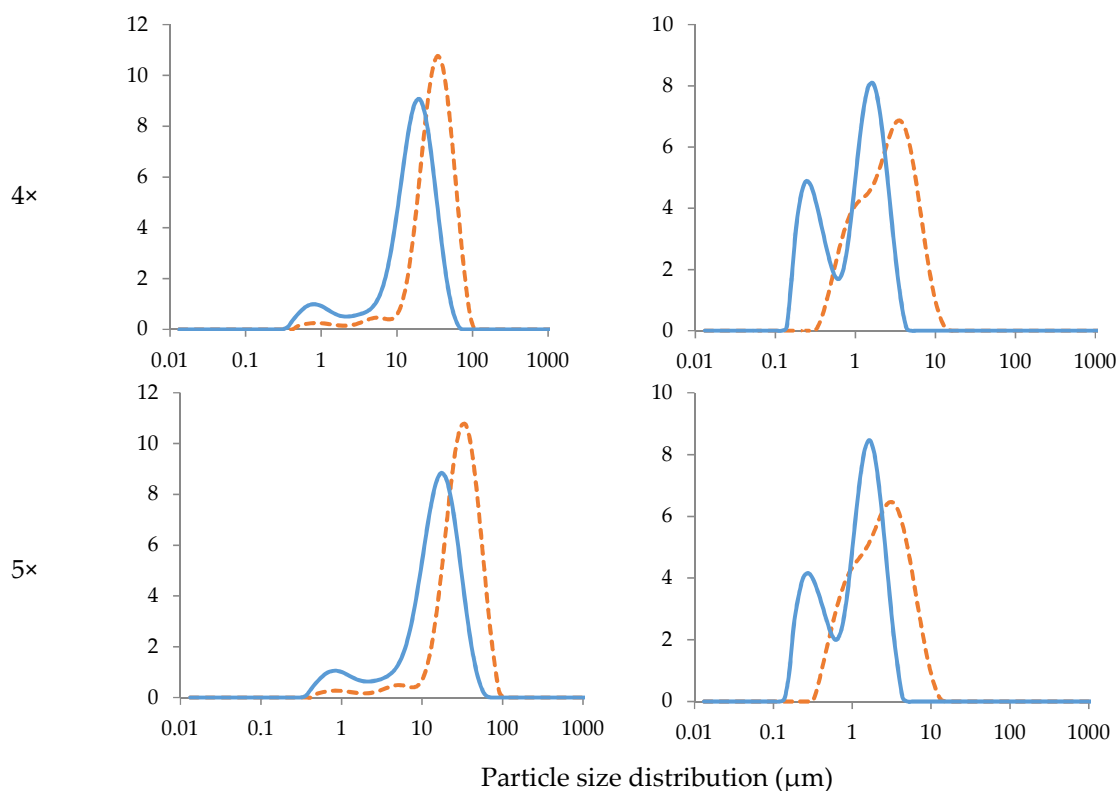


Figure S1. Particle size distribution of desolvated pea protein particles at pH 3 and pH 10 before and after homogenization at 5000 psi for 5 min.

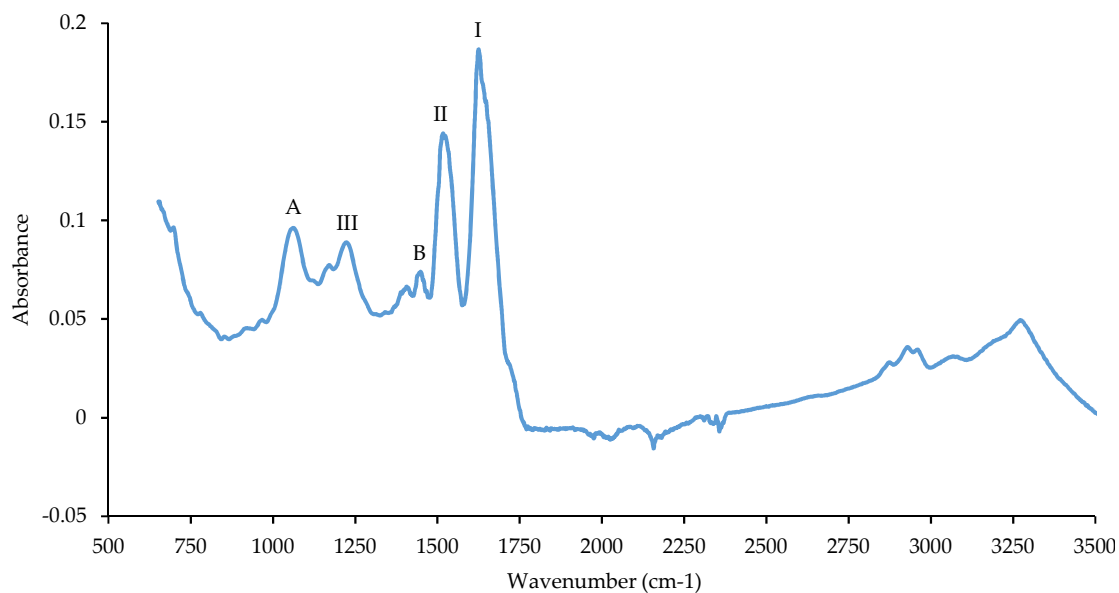


Figure S2. A representative FTIR spectra of 3X desolvated PPN and at pH 3 synthesized at 25 °C.

Band A: band around 1100 cm^{-1} , C–O and C–C stretching, NH stretching

Amide III: band around 1240 cm^{-1} , C–N stretching, NH bending

Band B: band around 1420 cm^{-1} , C–H bending, mainly originated from the deformational vibrations of the CH₂ functional group

Amide II: bands around 1480 and 1575 cm^{-1} , NH bending, CN stretching

Amide I: bands around 1600 and 1690 cm^{-1} , C=O stretching

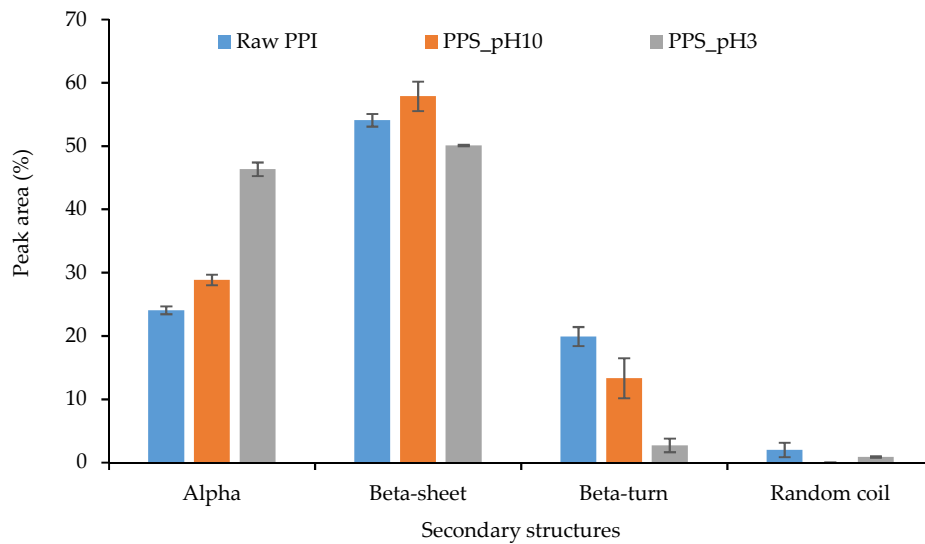


Figure S3. Secondary structure components of raw pea protein isolates (PPI), supernatant soluble pea protein at pH 10 and pH 3 without desolvation.

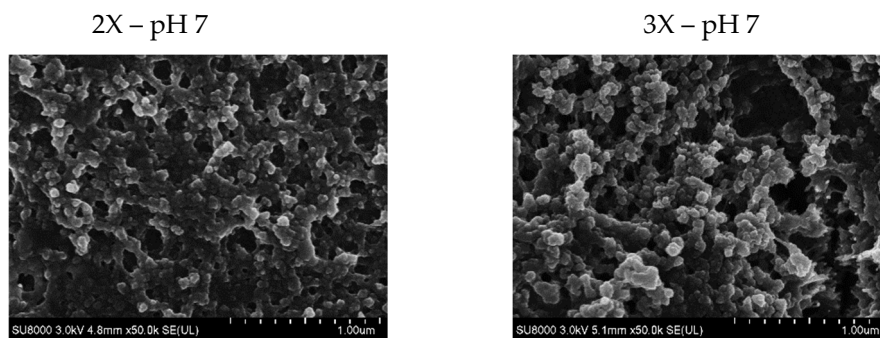


Figure S4. SEM images of re-dispersed pea protein particles at pH 7.