

## Supplementary information

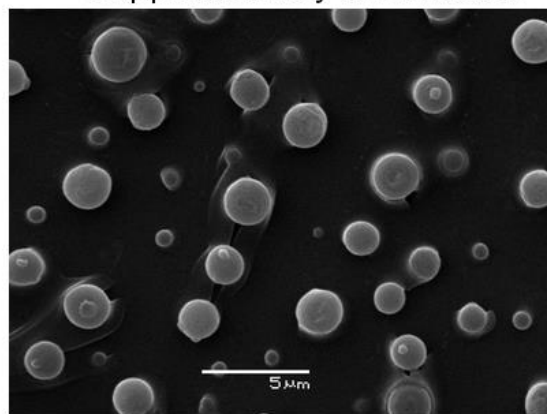


Figure S1-A. SEM image of L-PVA microparticles without neutralization

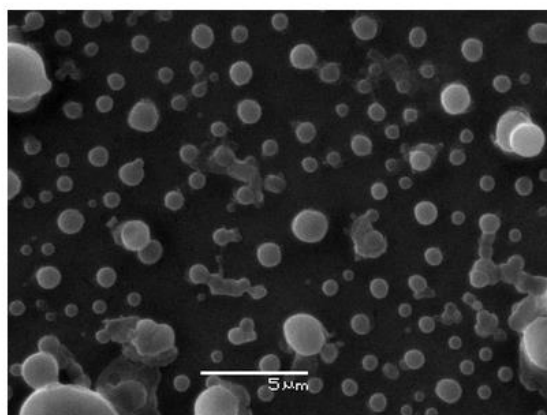


Figure S1-B. SEM image of m-PVA microparticles without neutralization

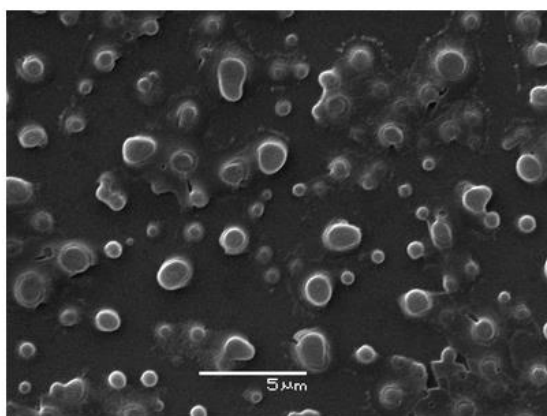


Figure S1-C. SEM image of h-PVA microparticles without neutralization

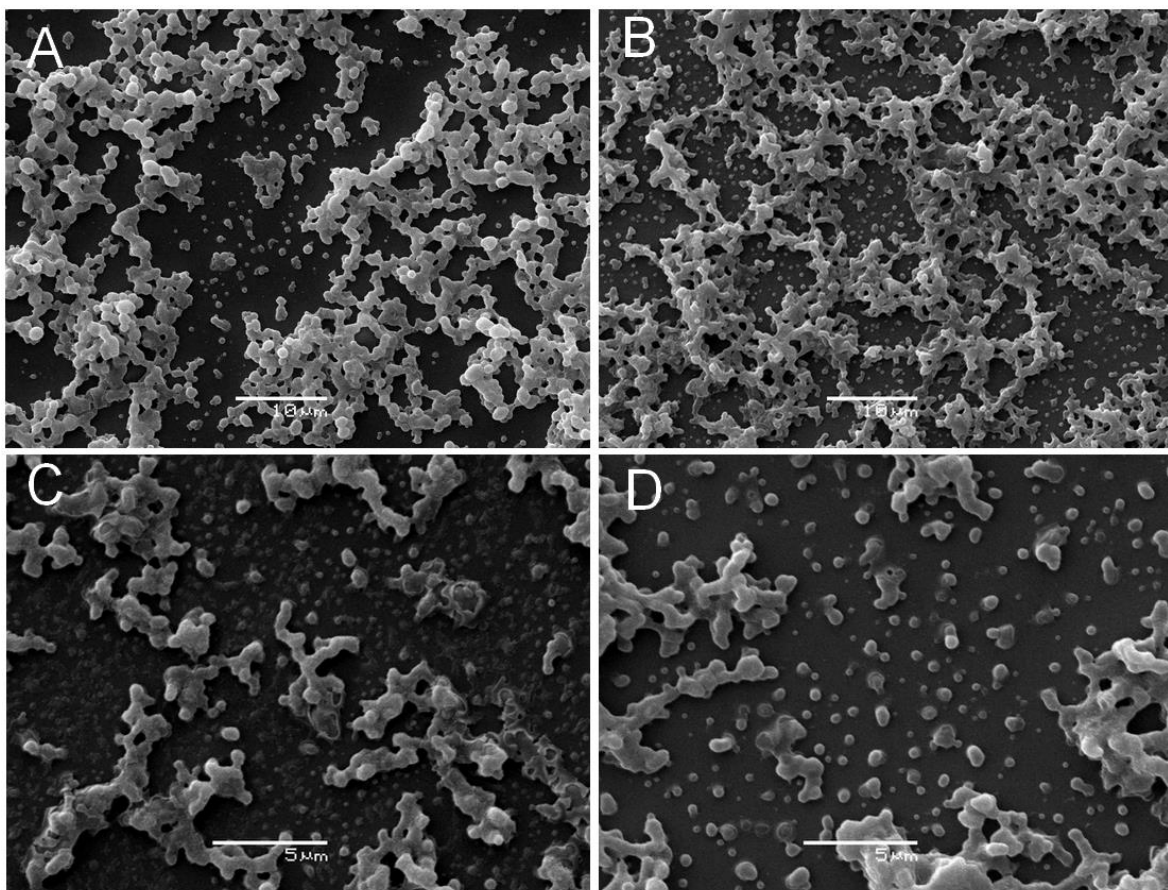


Figure S2. SEM images of h-PVA microparticles neutralized in different time storage. (A) and (C) 7 days of storage, (B) and (D) 180 days of storage.