pharmaceutics

MDPI

Supplementary Materials

Micro-Scale Vacuum Compression Molding as a Predictive Screening Tool of Protein Integrity for Potential Hot-Melt Extrusion Processes

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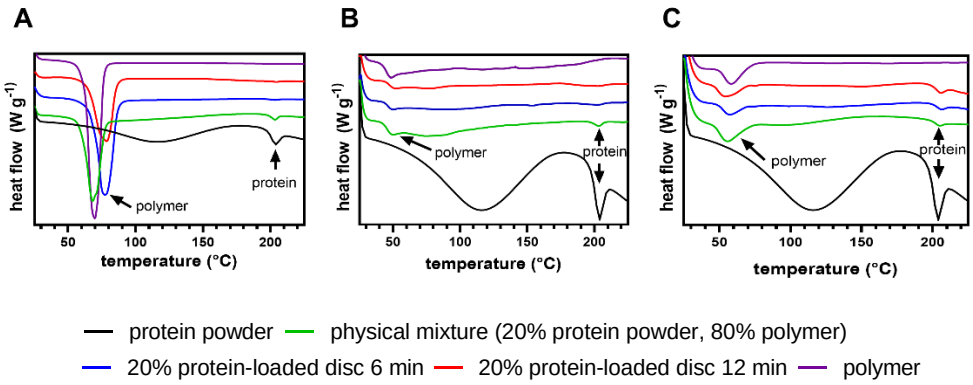


Figure S1. DSC thermograms (25 to 230°C) of lysozyme powder (black), polymers (purple) (**A**: PEG 20,000, **B**: PLGA, and **C**: EVA), physical mixture composed of 20% lysozyme powder and 80% polymer (green), and 20% lysozyme-loaded disc produced by VCM in 6 min (blue) or 12 min (red).

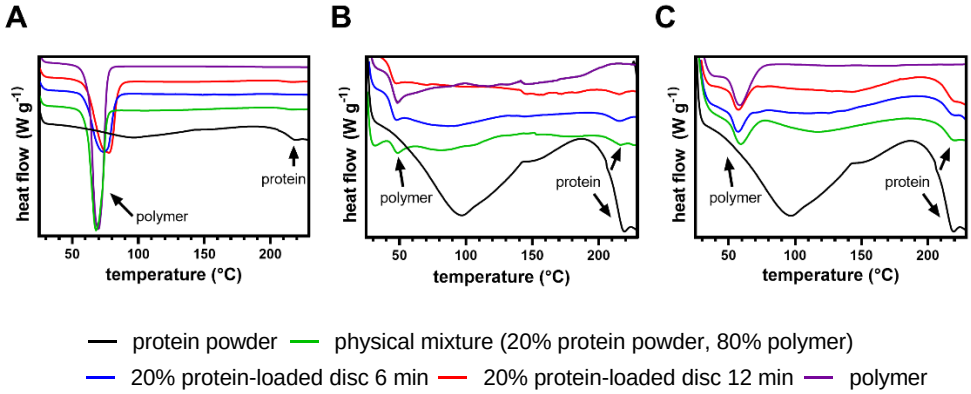
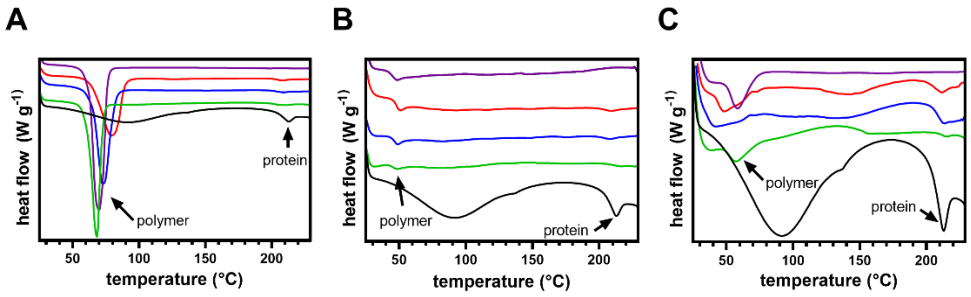


Figure S2. DSC thermograms (25 to 230°C) of BSA powder (black), polymers (purple) (**A**: PEG 20,000, **B**: PLGA, and **C**: EVA), physical mixture composed of 20% BSA powder and 80% polymer (green), and 20% BSA-loaded disc produced by VCM in 6 min (blue) or 12 min (red).



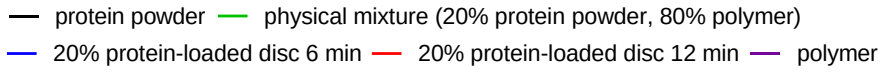


Figure S3. DSC thermograms (25 to 230°C) of human insulin powder (black), polymers (purple) (**A**: PEG 20,000, **B**: PLGA, and **C**: EVA), physical mixture composed of 20% human insulin powder and 80% polymer (green), and 20% human insulin-loaded disc produced by VCM in 6 min (blue) or 12 min (red).

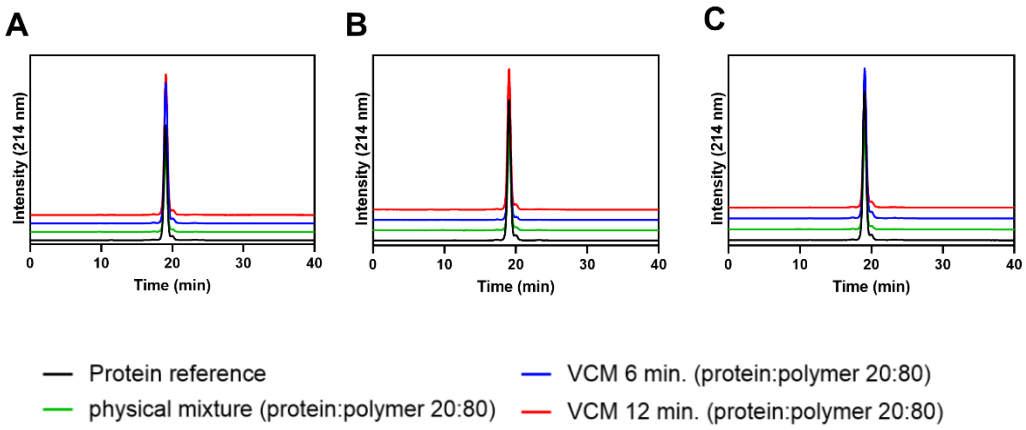


Figure S4. Chromatograms of SEC analysis; lysozyme powder (initial: black), physical mixture composed of 20% lysozyme and 80% polymer (green); and 20% lysozyme-loaded discs with the polymers: **A:** PEG 20,000 at 65°C; **B:** PLGA at 70°C; **C**: EVA at 70°C prepared by VCM in 6 min (blue) or 12 min (red).

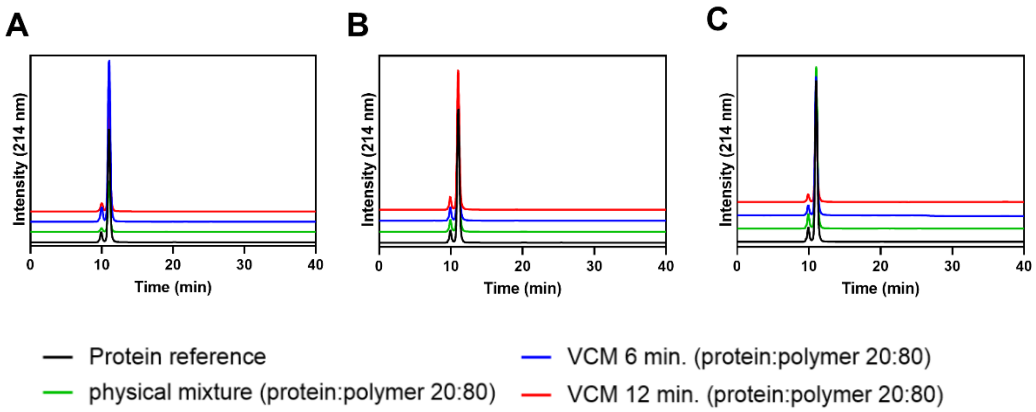


Figure S5. Chromatograms of SEC analysis; BSA powder (initial: black), physical mixture composed of 20% BSA and 80% polymer (green); and 20% BSA-loaded discs with the polymers: **A:** PEG 20,000 at 65°C; **B:** PLGA at 70°C; **C**: EVA at 70°C prepared by VCM in 6 min (blue) or 12 min (red).