RESEARCH PAPER

Fabricating a Shell-Core Delayed Release Tablet Using Dual FDM 3D Printing for Patient-Centred Therapy

Supplementary data

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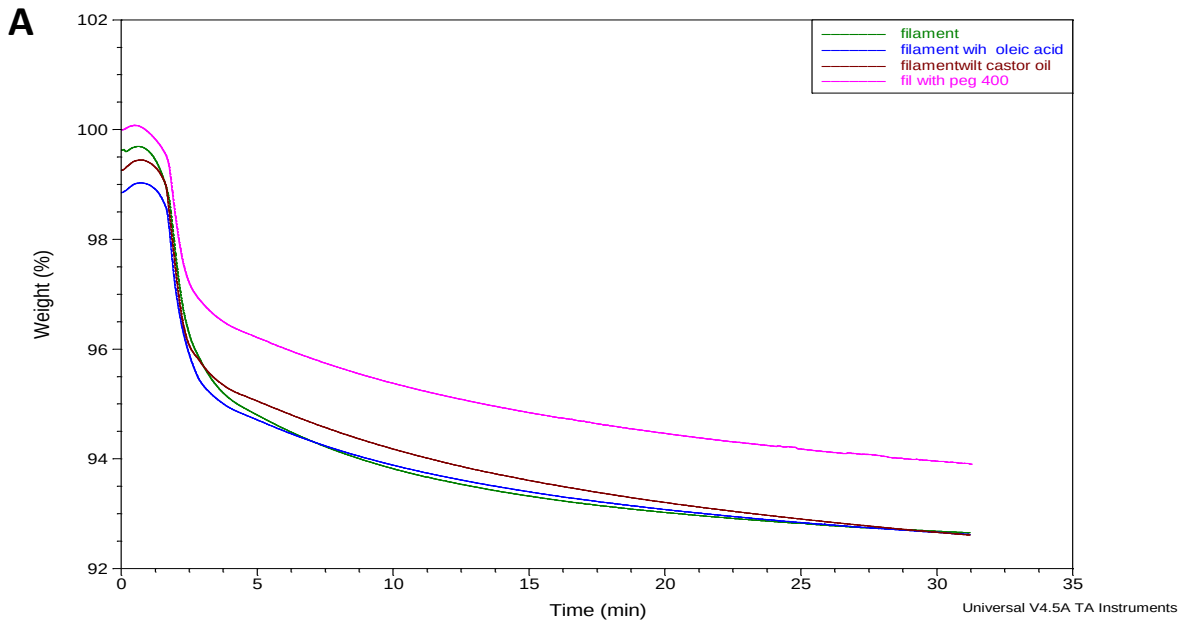

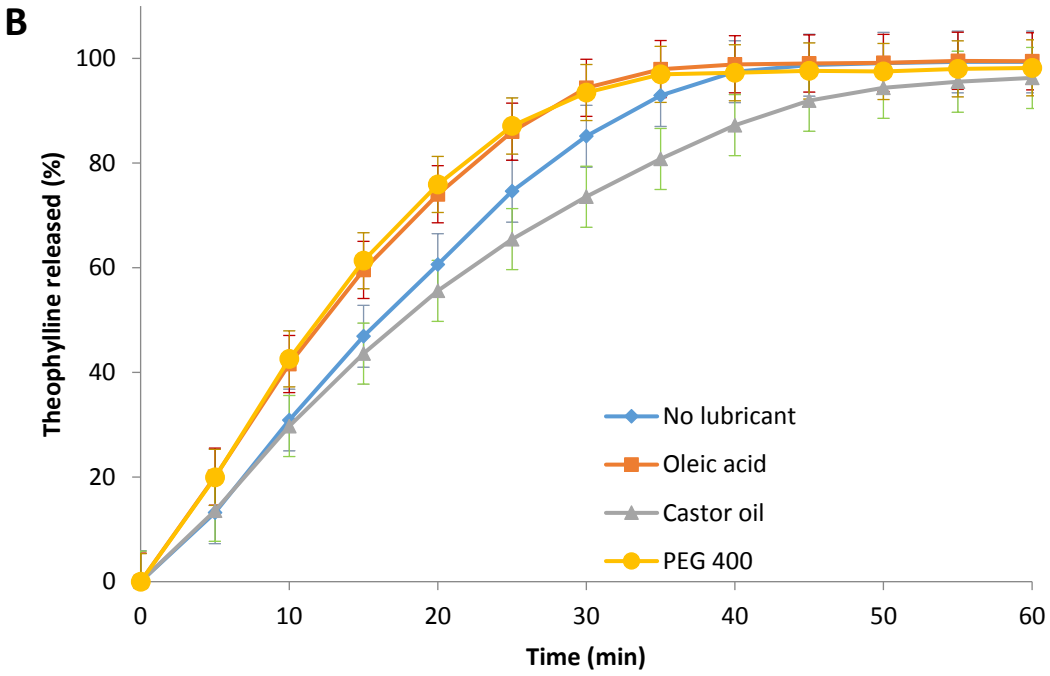

Figure

Figure S1 Impact of lubricants on (**A**) TGA thermal degradation profiles of PVP filament and (**B**) the *in vitro* release pattern of theophylline from core.

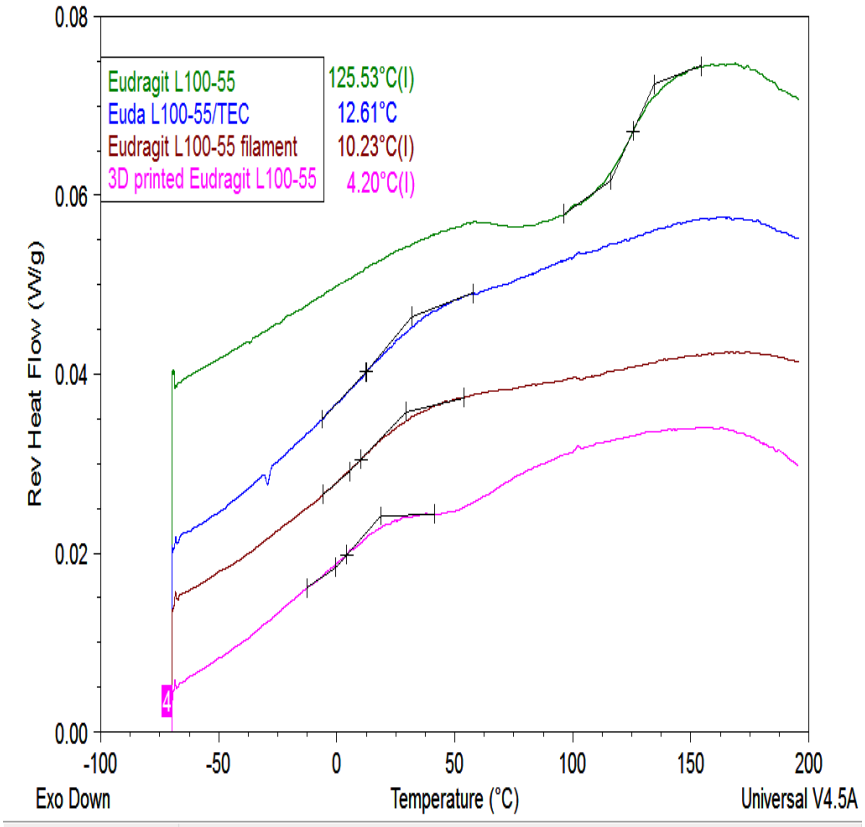

Figure S2 DSC thermographs of Eudragit L100-55, TEC and talc (raw materials), filament and 3D printed shell.

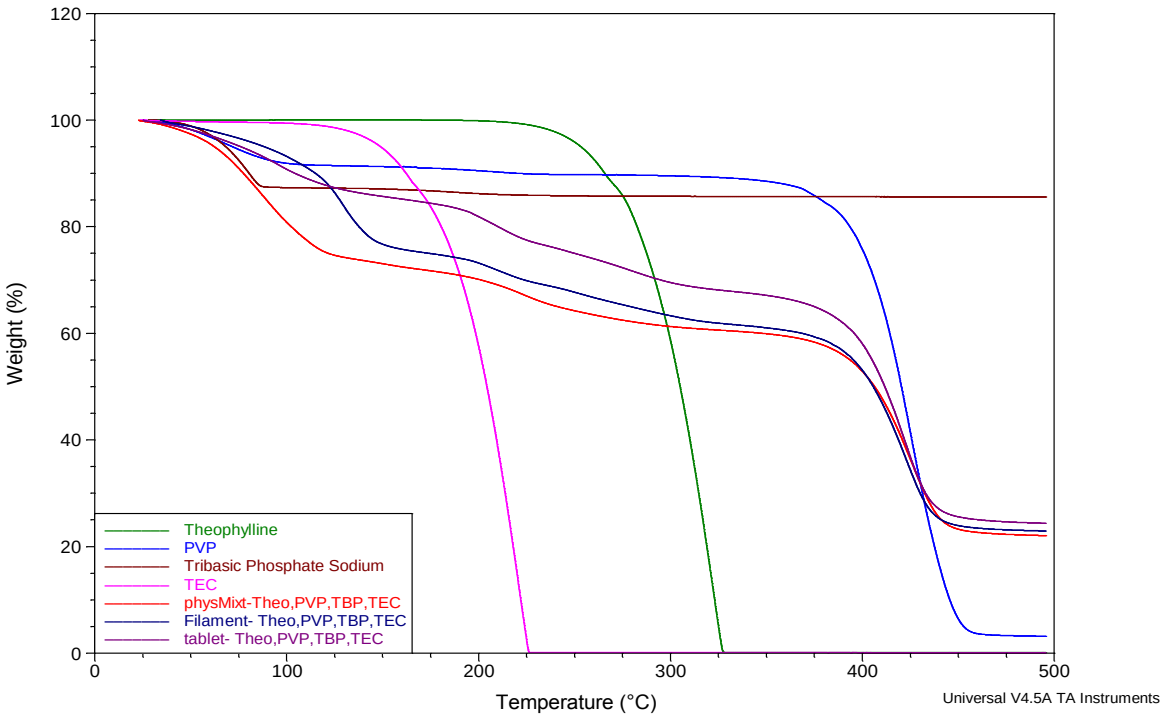

Figure S3 TGA thermal degradation profiles of the raw materials of; theophylline, PVP, TBP, TEC as well as the physical mixture, the filament and the 3D printed tablets.

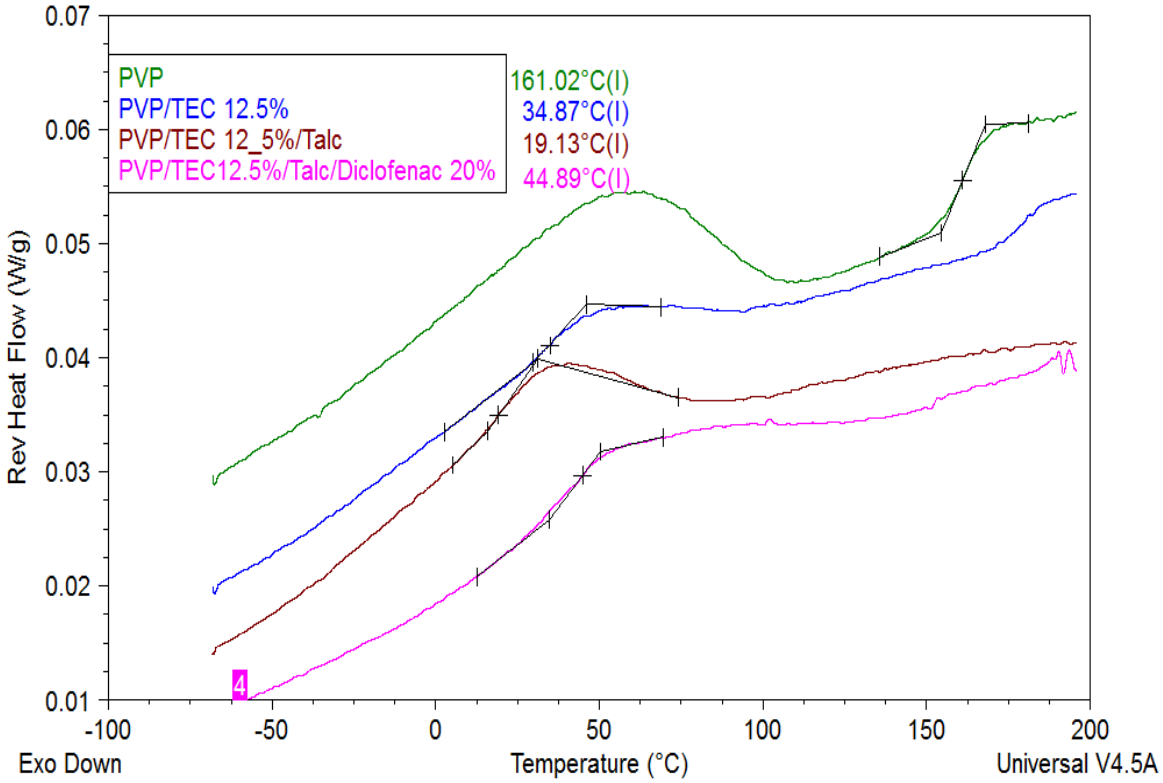

Figure S4 Reversing DSC thermographs of PVP, PVP: TEC (12.5%) filament, as well as diclofenac-loaded filaments (first heat-scan).