

Article

Development and optimisation of novel polymeric compositions for sustained release theophylline caplets (PrintCap) via FDM 3D printing

Deck Khong Tan¹, Mohammed Maniruzzaman ^{2*} and Ali Nokhodchi^{1*}

¹ Pharmaceutics Research Laboratory, School of Life Sciences, University of Sussex, Brighton BN1 9Q, UK

² Pharmaceutical Engineering and 3D Printing (PharmE3D) Lab, Division of Molecular Pharmaceutics and Drug Delivery, College of Pharmacy| University of Texas at Austin, Austin, Texas 78712, USA

* Corresponding authors: M. Maniruzzaman (M.Maniruzzaman@austin.utexas.edu, M.Maniruzzaman12@gmail.com) and A. Nokhodchi (a.nokhodchi@sussex.ac.uk)

Supplementary Data:

Supp. Table 1. FDM printability and quality of all four theophylline-loaded filaments.

Filament of Formulation No.	Quality of Printing
F1	Printable & Good Quality
F2	Printable & Good Quality
F3	Printable, Acceptable Quality
F4	Printable, Poor Surface Finish