Supporting Information

PEG-Coated Large Mesoporous Silicas as Smart Platform for Protein Delivery and Their Use in a Collagen-Based Formulation for 3D Printing

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**Figure S1.** *FE-SEM images of the different synthesised LPMS particles and their surface pores network: LPMS\_100\_2 (A, B), LPMS\_140\_2 (C, D), LPMS\_220\_2 (E, F), LPMS\_100\_24 (G, H), LPMS\_220\_24 (I, L).*



**Figure S2*.*** *N2 adsorption-desorption isotherm and pore size distribution of LPMS-HRP material.*



**Figure S3*.*** *XRD pattern of LPMS\_140\_24 material before (green) and after HRP adsorption (grey).*



**Figure S4*.*** *N2 adsorption-desorption isotherm and pore size distribution of LPMS-HRP\_PEG material.*

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