Supplementary Information

Development of on-chip cell domes using Ca–alginate hydrogel shells for non-adherent cell studies

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Fig. S1. Schematic illustration of alginate immobilisation onto an APS-coated glass plate using water-soluble carbodiimide (WSCD) and N-hydroxysuccinimide (NHS).



Fig. S2. FT-IR spectra of sodium alginate (Na-alginate) and calcium-crosslinked alginate (Ca–alginate). Characteristic absorption bands are observed for hydroxyl (–OH, ~3300 cm⁻¹) and aliphatic C–H (~2920 cm⁻¹) groups. The shift of the asymmetric and symmetric carboxylate stretching bands (from 1615 and 1417 cm⁻¹ in Na-alginate to 1610 and 1424 cm⁻¹ in Ca–alginate, respectively) indicates the formation of ionic crosslinks with calcium ions.