Supporting Information

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Table S1. Particle sizes of the S, SS, SSEN, and SSEC hydrogel beads formed using different vibrating nozzles

Sample	150/300 (mm)	200/400 (mm)	300/600 (mm)	450/900 (mm)
SAH	0.51±0.18^{a}	0.77±0.24^{a}	1.07±0.16^{b}	1.68±0.35^{c}
SSH	0.58±0.18^{a}	0.80±0.19^{a}	1.09±0.27^{b}	1.43±0.13^{c}
SSENH	0.63±0.19^{a}	0.69±0.15^{a}	0.98±0.21^{b}	1.62±0.13^{c}
SSECH	0.69±0.16^{a}	0.92±0.21^{ab}	0.98±0.18^{b}	1.52±0.30^{c}

Note: Values with different superscripted letters in the same column are significantly different at $p < 0.05$. Uppercase letters represent significant differences between different particle sizes.