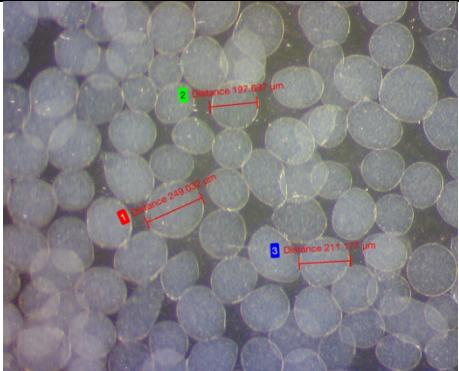
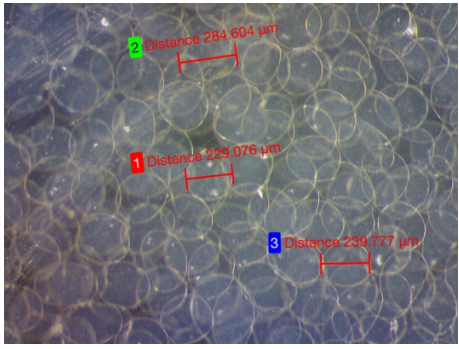
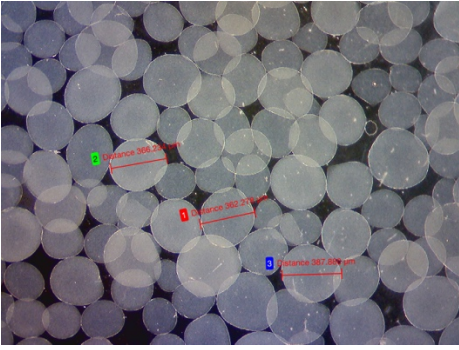
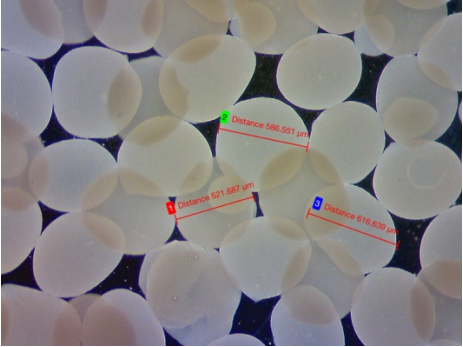


Supplementary materials

Table S1: Summary table of encapsulated phage characteristics produced by different nozzle sizes.

Nozzle	Bead size	Encapsulation efficiency	Optical micrographs of beads
200 μm	$219 \pm 21 \mu\text{m}$	4.4%	
300 μm	$284 \pm 50 \mu\text{m}$	3.3%	
450 μm	$303 \pm 22 \mu\text{m}$	1.1%	

750 μm	$574 \pm 40\mu\text{m}$	0.3%	
1000 μm	$746 \pm 37 \mu\text{m}$	0.1%	