

Supplementary Materials

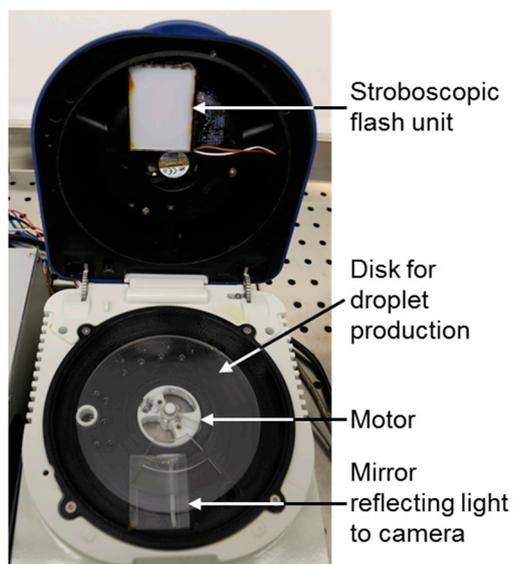


Figure S1. Photographic image of the (opened) LabDisk player with a disk for high throughput centrifugal step emulsification. The transparent disk is mounted to a motor for control of rotation. The lid of the player has a stroboscopic flash unit that emits light which passes the disk and is reflected to a camera (not shown here) by a mirror in the base of the LabDisk player.

Table S1. Measurements of structures used. The numbers after the # refer to the positions of the structure on the disk as depicted in Figure S2.

Feature	Size
Inlet chamber volume; #1	1.26 mL
Channel width (at inlet chamber exit; #2)	400 μm
Channel depth (at inlet chamber exit; #2)	280 μm
Channel width (after 1st split; #3)	200 μm
Channel depth (after 1st split; #3)	280 μm
Channel width (before 2nd split; #4)	280 μm
Channel depth (before 2nd split; #4)	200 μm
Channel width (after 2nd split; #5)	140 μm
Channel depth (after 2nd split; #5)	200 μm
Channel width (before 3rd split; #6)	200 μm
Channel depth (before 3rd split; #6)	140 μm
Channel width (at nozzles; #7)	100 μm
Channel depth (at nozzles; #7)	140 μm
Nozzle width; #8	90 μm
Nozzle depth; #8	60 μm
Terrace length; #8	100 μm
Number of nozzles; #8	72
Droplet collection chamber angle (“width”); #9	66.4°
Droplet collection chamber length; #9	13.3 mm
Droplet collection chamber depth; #9	2 mm
Droplet collection chamber volume; #9	1.2 mL

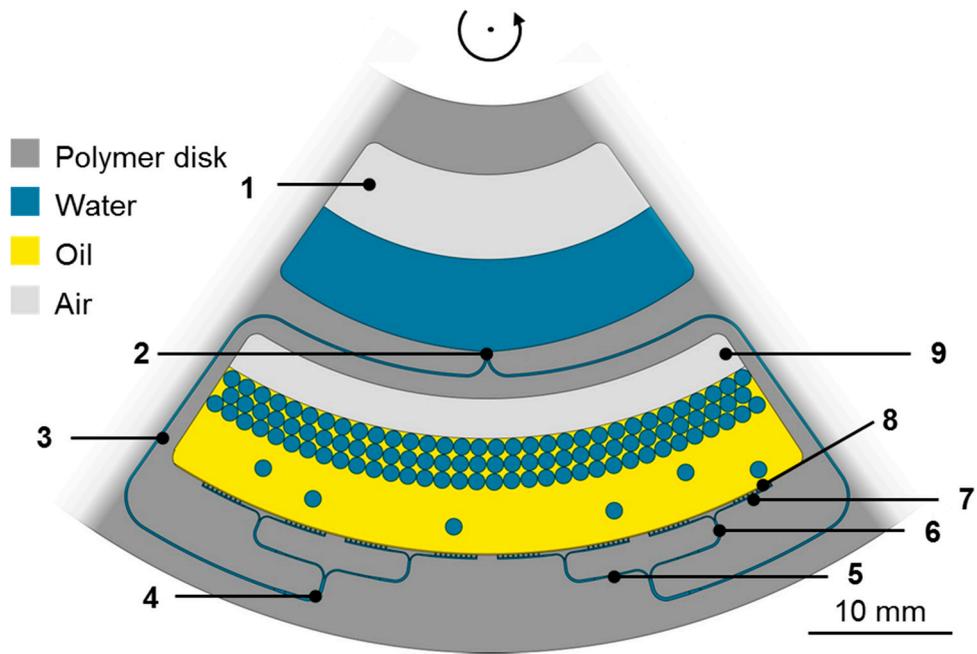


Figure S2. Schematic of the structure with number that correspond to the measurements in Table S1.

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