Electronic Supplementary Material (ESI) for Lab on a Chip. This journal is © The Royal Society of Chemistry 2020

Supplementary Materials

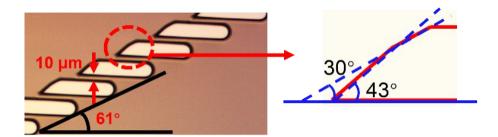


Figure S1: Close up image of the micropillar array. Inset: A sketch showing angled micropillar inlet area.

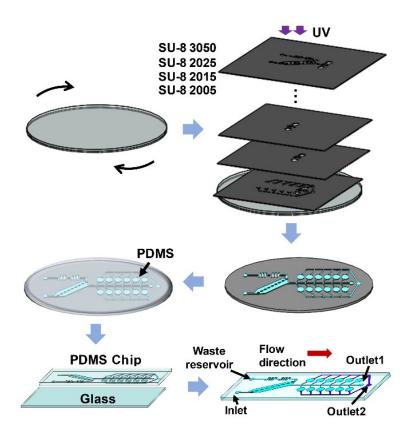


Figure S2: Fabrication process.

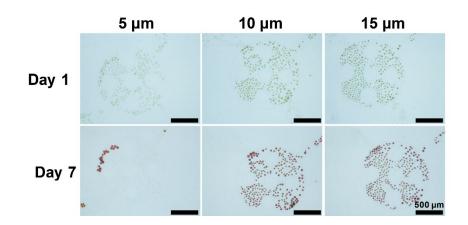


Figure S3: Microscopic images of H. pluvialis cultured inside the 5, 10, and $15\mu m$ height culture chambers at the day 1 and day 7.

Manufacturer	Component	Concentration (mg/L)
	MgSO₄·7H₂O	246
Sigma (USA)	CaCl ₂ · ₂ H ₂ O	110
	CoCl ₂ ·6H ₂ O	0.11
	Cyanocobalamine	0.015
	Biotion	0.025
	Thiamine hydrchloride	0.0175
Sigma Aldrigh Inc	Na ₂ HPO ₄	30
Sigma-Aldrich Inc. (USA)	Fe(III)citrate·H ₂ O	2.62
(00/)	Cr ₂ O ₃	0.075
Baker (USA)	MnCl ₂ ·4H ₂ O	0.98
Samchun (Koera)	KNO ₃	410
Aldrich (USA)	SeO ₂	0.005
J.T.Baker (USA)	Na ₂ MoO ₄ ·2H ₂ O	0.12
MCIB (USA)	CuSO ₄ ·5H ₂ O	0.12

Supplementary Table S1. OHM media.