

A microfluidic platform for long term monitoring of algae in a dynamic environment

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Table 1: Microfabrication process overview

Layer	Height	Resist	RPM	SB, 95C	Exposure	PEB, 95C	HB, 150C
Trap (<i>Synechocystis</i>)	1.25 μm	2001.5	2700	2.5 min	8 sec	3 min	5 min
Trap (<i>S. elongatus</i>)	0.74 μm	2000.5	565	3 min	15 sec	2 min	5 min
Trap (<i>C. sorokiniana</i>)	3.25 μm	2003	1600	3 min	10 sec	3 min	5 min
Alignment elements	5 μm	2005	3000	4 min	10 sec	4 min	5 min
Main channel	10 μm	2005	660	5 min	12 sec	6 min	–
Chaotic mixer	14 μm	2005	1200	5 min	12 sec	6 min	5 min

Parameters used in microfabrication of the microfluidic master mold are listed in Table S1. UV lamp power was 5.2 mW cm^{-2} . Developing time for each layer was 2 min. Main channel layer was not developed and chaotic mixer layer was directly spun on top. RPM is rotations per minute, SB is soft bake, PEB is post-exposure bake, HB is hard-bake.