

Materials List for:

# Microfluidic Mixers for Studying Protein Folding

Steven A. Waldauer<sup>1</sup>, Ling Wu<sup>1</sup>, Shuhuai Yao<sup>2</sup>, Olgica Bakajin<sup>3</sup>, Lisa J. Lapidus<sup>1</sup>

<sup>1</sup>Department of Physics and Astronomy, Michigan State University

<sup>2</sup>Department of Mechanical Engineering, Hong Kong University of Science and Technology

<sup>3</sup>Center for Biophotonics, University of California, Davis

Correspondence to: Lisa J. Lapidus at [lapidus@msu.edu](mailto:lapidus@msu.edu)

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## Materials

| Name                                | Company                       | Catalog Number         | Comments                                                                                                                                                                                                                 |
|-------------------------------------|-------------------------------|------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| AZ P4110 Photoresist                | AZ Electronic Materials       |                        |                                                                                                                                                                                                                          |
| AZ 400 K Developer                  | AZ Electronic Materials       |                        |                                                                                                                                                                                                                          |
| Baker PRS 2000 photoresist stripper | Avantor Performance Materials |                        |                                                                                                                                                                                                                          |
| AquaBond                            | AquaBond Technologies         | AquaBond 55            |                                                                                                                                                                                                                          |
| 500 $\mu$ m cover wafer             | SENSOR Prep Services          |                        | : 100 mm $\pm$ 0.5 mm<br>Thickness: 0.5 mm $\pm$ 0.025 mm<br>Standard Tolerances (Unless Noted)<br>Surface Finish: SI: 4-8Å; SII: 8-12Å<br>Flats: One Primary SEMI-STD;<br>One Scribe<br>Clean and Polished, Both Sides  |
| 170 $\mu$ m cover wafer             | SENSOR Prep Services          | 7980 2G Wafers         | : 100 mm $\pm$ 0.5 mm<br>Thickness: 0.17 mm $\pm$ 0.025 mm<br>Standard Tolerances (Unless Noted)<br>Surface Finish: SI: 4-8Å; SII: 8-12Å<br>Flats: One Primary SEMI-STD;<br>One Scribe<br>Clean and Polished, Both Sides |
| Deep reactive ion etcher for oxides | ULVAC                         | ULVAC NL-6000          |                                                                                                                                                                                                                          |
| Argon Ion Laser                     | Cambridge Laser Laboratories  | Lexel 95-SHG           | $\lambda$ =258 nm                                                                                                                                                                                                        |
| Argon Ion Laser                     | Melles Griot                  |                        | $\lambda$ =488 nm                                                                                                                                                                                                        |
| Microscope                          | Olympus Corporation           | IX-51                  |                                                                                                                                                                                                                          |
| Microscope Objective                | Thorlabs Inc.                 | OFR LMU-40X-UVB 0.5 NA | $\lambda$ = 258 nm                                                                                                                                                                                                       |
| Microscope Objective                | Olympus Corporation           | UPLSAPO 60XW 1.2 NA    | $\lambda$ =488 nm                                                                                                                                                                                                        |
| Nanopositioner                      | Mad City Labs                 | Nano-LP100             |                                                                                                                                                                                                                          |
| Motorized Translation Stage         | Semprex Corp                  | KL-Series 12-6436      |                                                                                                                                                                                                                          |
| GaAsP Photon Counter                | Hamamatsu Corp.               | H7421-40               |                                                                                                                                                                                                                          |
| Monochrometer                       | Horiba Instruments Inc        | MicroHR                |                                                                                                                                                                                                                          |
| CCD camera                          | Andor                         | iDus 420A-BU           |                                                                                                                                                                                                                          |
| Guanidine hydrochloride (GuHCl)     | Sigma-Aldrich                 | G4505                  |                                                                                                                                                                                                                          |