

Materials List for:

Microfluidic Chips for *In Situ* Crystal X-ray Diffraction and *In Situ* Dynamic Light Scattering for Serial Crystallography

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Materials

Name	Company	Catalog Number	Comments
SU-8 3000 Series	MicroChem Corp.	SU-8 3000	Photoresist
PGMEA	Sigma-Aldrich	484431	Developer
Isopropyl alcohol			Solvent
Ethanol			Solvent
Epoxy glue	UHU	Plus Schnellfest 5 min	Epoxy glue
PDMS	Dow Corning	Sylgard 184	Silicone
Kapton foil	Dupont/ American Durafilm	HN grade, gauge 30 (7.5 µm)	polyimide foil
APTS	Sigma-Aldrich	440140	Chemical
GPTS	Sigma-Aldrich	440167	Chemical
Cytop CTX-109AE	Asahi Glass Co. Ltd	Cytop CTX-109AE	Cytop fluoropolymer coating
CT-Solv 100E	Asahi Glass Co. Ltd	CT-Solv 100E	Cytop fluoro-solvent
HFE-7500	3M	Novec 7500	Fluorinated oil
AutoCAD	AutoDesk Inc.	AutoCAD	CAD Software
Biopsy Punch	Harris	Uni-core 0.75 mm	
Photo mask	JD Photo Data		
3 inch wafer	University Wafer		Silicon wafer
Mask aligner	SÜSS MicroTec	MJB4	Mask aligner
PDMS mixer	Thinky	ARE-250	
Plasma machine	Diener electronic	Zepto	
Thaumatococcus	Sigma Aldrich	T7638	Protein
Glucose Isomerase	Hamton Research	HR7-102	Protein
Bis-Tris	Sigma Aldrich	B9754	Chemical
Sodium Tartrate	Merck	106664	Chemical
Tris-HCl	Sigma Aldrich	10812846001	Chemical
HEPES	Carl Roth	6763.2	Chemical
Magnesium Chloride	Sigma Aldrich	208337	Chemical
Ammonium Sulfate	Sigma Aldrich	A4418	Chemical

EDTA	Sigma Aldrich	E6758	Chemical
Sodium Chloride	Sigma Aldrich	1064060250	Chemical
PEG1500	Molecular Dimensions	MD2-100-6	Chemical
SPG buffer	Jena Bioscience	CSS-389	Chemical
SpectroLight600	XtalConcepts		DLS Instrument
Nanodrop	Thermo Scientific		Spectrophotometer
Zentrifuge	Eppendorf		
Ultimaker2	Ultimaker		3D printer
Form2	Formlabs		3D printer
Amicon Filter	Sartorius Stedim		0.2 µm filter
Tubing	Adtech Polymer Engineering Ltd	Bioblock/05	PTFE tubing 0.3 mm Inner Diameter x 0.76 mm Outer Diameter
Syringes	BD	309628	1ml Luer-Lock Tip
Needle	Terumo Agani Needle	AN*2716R1	27Gx5/8"