

Materials List for:

# Fabrication and Testing of Microfluidic Optomechanical Oscillators

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URL: <https://www.jove.com/video/51497>

DOI: [doi:10.3791/51497](https://doi.org/10.3791/51497)

## Materials

Name	Company	Catalog Number	Comments
Tunable IR laser	Newfocus	TLB-6328	
Photodetectors	Newfocus	1811-FC (Low speed 125MHz) / 1611-FC-AC (High speed 1GHz)	
Optical fiber	Corning	SMF28	
Silica capillary	PolyMicro	TSP700850	
10.6 um wavelength CO <sub>2</sub> laser	Synrad	48-1KWM and 48-2KWM	
UV-curing optical adhesive	Thorlabs	NOA81	
Tubing	Tygon	EW-06418-01	
Syringes	B-D	YO-07940-12	
Needles	Weller	KDS201P	
Electrical spectrum analyzer	Agilent Technologies	N9010A (EXA Signal Analyzer)	
Electrical spectrum analyzer	Tektronix	6114A (RSA, Real-time spectrum analyzer)	
Optical spectrum analyzer	Advantest	Q8384	
Oscilloscope	Tektronix	DPO 4104B-L	
Gold mirrors	II-VI Infrared	836627	
Linear stage (slow)	DryLin	H1W1150	
Linear stage (fast)	PBC Linear	MTB055D-0902-14F12	
Fabry Perot optical spectrum analyser	Thorlabs	SA 200-14A (FSR: 1.5 GHz)	