

Materials List for:

# Wideband Optical Detector of Ultrasound for Medical Imaging Applications

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## Materials

Name	Company	Catalog Number	Comments
π-FBG	Teraxion Inc.		Custom made device
Microscopic spheres	Cospheric LLC	BKPMS 90-106um- 10g	100 μm polyethylene microspheres
Femto-second pulse laser used for interrogation	Menlo Systems GmbH	T-Light Femtosecond Laser	
Optical filter	Optoplex Corporation	2-Port Optical Tunable Filter (50 GHz)	
Optical amplifier	Amonics	AEDFA-PM-PA-35-B-FC	Benchtop 35dB Gain Pre Amp Polarization Maintaining EDFA
50/50 coupler	OZ-Optics	FUSED-22-1550-8/125-50/50-3S3S3S3S-3-0.5-PM	Fused 2 x 2 fiber splitter with 0.5 meter long, 3 mm OD PVC jacketed 1,550 nm 8/125μ PM fiber pigtails, 50/50 split ratio in the slow axes of PM fibers and with super FC/PC connectors on all ports.
Fiber holder	Thorlabs	T711/M-250	Metric, Post-Mountable Fiber Clamp, 250 μm
Agar for microbiology	Sigma Aldrich	05039-500G	
Nano-second pulse laser used for generating the optoacoustic signals	Opotek	VIBRANT Arrow 532 type I	
Graphite rod	Faber-Castell	120700	Faber-Castell Pencil Leads - 0.7 mm