

Materials List for:

Fourier-Based Diffraction Analysis of Live *Caenorhabditis elegans*

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URL: <https://www.jove.com/video/56154>

DOI: [doi:10.3791/56154](https://doi.org/10.3791/56154)

Materials

Name	Company	Catalog Number	Comments
Tunable Helium-Neon laser	Research Electro-Optics	30602	Four wavelengths can be selected between 543 nm and 633 nm.
2 Front Surface Aluminum Mirrors	Thorlabs	PF10-03-F01	
Photodiode: SI Amplified Detector	Thorlabs	PDA 100A	
Quartz Cuvette	Starna Cells	21/G/5	Plastic cells may be used as well.
MatLab (Software)	MathWorks	R2016b (9.1.0.441655)	Use the fft command to simulate diffraction
Excel	Microsoft	14.7.1	Used for data analysis of Figure 4
<i>Caenorhabditis elegans</i> Roller	University of Minnesota <i>Caenorhabditis elegans</i> Center (CGC)	Strain: OH7547 Genotype: otIs199.	https://cbs.umn.edu/cgc/home
<i>Caenorhabditis elegans</i> Wild Type	University of Minnesota <i>Caenorhabditis elegans</i> Center (CGC)	Strain:N2 Genotype: C. elegans wild isolate	https://cbs.umn.edu/cgc/home