

Materials List for:

Using Laser Tweezers For Manipulating Isolated Neurons In Vitro

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URL: <https://www.jove.com/video/911>

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Materials

Name	Company	Catalog Number	Comments
25mm circle No.1 coverglass	VWR international	48380 080	
poly-2-hydroxyethylmethacrylate (poly-HEMA)	Sigma-Aldrich	P-3932	Dissolve in 95% ethanol
Goat anti-mouse IgG antibody	Chemicon International	AP181	1mg in 1ml, dilute 10x for use
Sal-1 supernatant containing mouse anti-salamander antibody	generously provided by Dr. Peter MacLeish		Dr. Peter MacLeish, Morehouse School of Medicine, Atlanta, GA
3 mm bore 5ml pyrex disposable pipets	Corning	7078A-5	
Cell culture dishes 35mm x 10mm	Corning	430165	
Sylgard 184 silicone elastomer kit	Dow Corning		
Optical tweezers-microtool or laser tweezers	Cell Robotics Inc.		
1 W continuous wave diode laser of 980nm wavelength	Cell Robotics Inc.		
Axiovert 100 inverted light microscope	Carl Zeiss, Inc.		
40x oil immersion plan neofluor objective lens	Carl Zeiss, Inc.		Numerical aperture (N.A. 1.3)
Black and white CCD camera	Sony Corporation		
Computer and joystick with software	Cell Robotics Inc.		for controlling a motorized stage