

Materials List for:

Loading a Calcium Dye into Frog Nerve Endings Through the Nerve Stump: Calcium Transient Registration in the Frog Neuromuscular Junction

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Materials

Name	Company	Catalog Number	Comments
Ca2+ indicator	Molecular Probes, USA	Oregon Green 488 BAPTA-1 hexapotassium salt, O6806	500 µg
Silicone Elastomer	Dow Corning, USA	Sylgard 184 elastomer	
Pipette	Biohit, Russia	720210	0.5-10µL
Pipette tip	Fisher Scientific, USA	02-707-175	10µL
Pipette tip	Biohit, Russia	781349	10µL
Razor Blade	Fisher Scientific, USA	12-640	
Minutien Pins	Fine science tools, Canada	26002-20	
Corneal Mini-Scissors	MT MEDI CORP, Canada	S-1111	
Jeweler Forceps	MT MEDI CORP, Canada	F-9610	
Jeweler Forceps	MT MEDI CORP, Canada	F-9611	
Modelling clay	local producer		can be replaced by any local producer
Petroleum jelly	local producer		can be replaced by any local producer
Microspin FV 2400	Biosan, Latvia	BS-010201-AAA	
Multi-spin MSC 3000	Biosan, Latvia	BS-010205-AAN	
Single-use hypodermic needles	Bbraun	100 Sterican	0.4×40mm
Syringe	local producer		0.5 ml
HEPES	Sigma-Aldrich, USA	H0887	100ml
Microscope, BX51	Olympus, Japan		
Data acquisition system	Molecular Devices, USA	Digitdata 1550	
software	Molecular Devices, USA	pClamp software, Version 10	protocol can be download from : http://kpfu.ru/portal/docs/F_230007060/Video.capture.with.RedShirt.Neuro.CCD.camera.pro
Bath and bath temperature controler	Experimental Builder		can be replaced by any chamber with temperature control. For example from https://www.warneronline.com/
Monochromator	Till Photonics, Germany	Polychrome V	no longer available, can be replaced by other sutable stable light source 488 nm
monochromator control software	Till Photonics, Germany	Polycon	
Digital CCD camera	Redshirt imaging, USA	Neuro CCD SMQ	

Model 2100 Isolated Pulse Stimulator	A-M Systems, USA		
Acquisition software for CCD camera	Redshirt imaging, USA	Turbo SM software	
ImageJ	National Institutes of Health, USA		http://rsb.info.nih.gov/ij/download.html
Spreadsheet program	Microsoft, USA	Microsoft Office Excel	