

Materials List for:

Optical Recording of Electrical Activity in Guinea-pig Enteric Networks using Voltage-sensitive Dyes

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Materials

Name	Company	Catalog Number	Comments
Medium 199	Sigma-Aldrich	M3769	With Earle's salts Without L-Glutamine, Phenol Red and Sodium Bicarbonate
Sylgard	Dow Corning	184 silicone elastomer kit	
Insect pins used for dissection	F.S.T.	26001-30	
Dumont forceps	F.S.T.	11203-23 or 11200-33	
Moria MC19/B Pascheff-Wolff Spring Scissors	F.S.T.	15371-92	
Pins to hold the tissue during the experiment	Seirin Corp.	Seirin Spinex	
Collagenase VII	Sigma-Aldrich	C0773	
Protease IX	Sigma-Aldrich	P6141	
Fetal Bovine Serum	Invitrogen	10439-016	
PenStrep	GIBCO, by Life Technologies	15140	
L-Glutamine 100X	GIBCO, by Life Technologies	25030	
Nifedipine	Sigma-Aldrich		
Di-4-ANEPPDHQ	Molecular Probes, Life Technologies	D36802	
4-Channel Stimulus Generator	Multi Channel System MCS GmbH	2000 Series	
Peristaltic pump	Rainin	2-channel Dinamax RP-1	
High-speed camera	RedShirtImaging, LLC	NeuroCCD-SM	
1:10 demagnifier / relay lens	Optem, Qioptiq Inc.		
Upright microscope	Olympus Corporation	BX61TRF	
Gibraltar fixed stage with motorized X-Y translator	Gibraltar, Burleigh Instruments, EXFO, Quebec, Canada	PSSG--BX2	
Linear matrix electrodes	FHC, Inc.	Custom made	
Active vibration-isolation table	Halcyonics, Inc., Menlo Park, CA	Micro 60	
Ultra-low-ripple feedback stabilized power supply	Kepeco, Flushing, NY	ATE 75-15M	
Heat filter	Schott AG	KG-1	
High-Q interference filter	Chroma Inc.	HQ530/50	
Dichroic mirror	Chroma Inc.	565 nm (50% transmission)	
Long-pass filter	Chroma Inc.	HQ572LP	
Acoustic curtains	Acoustical Surfaces, Inc.	BSC-25	
Neuroplex	RedShirtImaging, LLC		

IDL	ITT Visual Information Solutions		
High-resolution CCD camera, with its own camera controller	Hamamatsu Corp.		
Frame-grabber for high-resolution camera	Data Translation	DT3120K-1	
Imaging software for high-resolution camera	Data Translation	Global Lab Image/2	