

Materials List for:

Visualization of Thalamocortical Axon Branching and Synapse Formation in Organotypic Cocultures

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Materials

Name	Company	Catalog Number	Comments
DMEM/F12	GIBCO	11320-033	
Hanks' balanced salt solution (HBSS)	Nissui	5905	
Fetal bovine serum (FBS)	Thermo Scientific	SH30396-03	Hyclone
Insulin	Sigma	I6634	
Progesterone	Sigma	P8783	
Hydrocortisone	Sigma	H0888	
Sodium selenite	Wako Pure Chemical Industries	192-10843	
Transferrin	Sigma	T1147	
Putrescine	Sigma	P5780	
Glucose	Wako Pure Chemical Industries	16806-25	
35 mm petri dishes	Falcon	351008	
Millicell-CM insert	Millipore	PICMORG50	
100 mm petri dishes	BIO-BIK	I-90-20	petri dish sterile
HiPure Plasmid Maxiprep Kit	Invitrogen	K210006	
Disposable sterile plastic pipettes		202-IS	transfer pipets sterile
Glass capillary: OD 1.2 mm	Narishige	G-1.2	inner diameter, 1.2 mm
Silver wire: 0.2 and 1 mm	Nilaco	AG-401265 (diameter, 0.2 mm), AG-401485 (diameter, 1.0 mm)	
1 mL syringe	Terumo	SS-01T	
Stimulator	A.M.P.I	Master 8	
Biphasic isolator	BAK ELECTRONICS	BSI-2	
Amplifier	A-M Systems	Model 1800	
Oscilloscope	Hitachi	VC-6723	
Manipulator	Narishige	SM-15	
Micromanipulator	Narishige	MO-10	
Stereomicroscope	Olympus	SZ40	
Universal stand	Olympus	SZ-STU2	
Light illumination system	Olympus	LG-PS2, LG-DI, HLL301	
Electrode puller	Narishige	PC-10	
Confocal microscope	Nikon	Digital eclipse C1 laser	
x20 objective	Nikon	ELWD 20x/0.45	

Culture chamber	Tokai Hit	UK A16-U	
Sprague-Dawley (SD) rat	Japan SLC and Nihon-Dobutsu		
Microsurgery scissors	Natsume	MB-54-1	