

Materials List for:

Primary Culture of Mouse Dopaminergic Neurons

Florence Gaven^{1,2,3}, Philippe Marin^{1,2,3}, Sylvie Claeysen^{1,2,3}

¹CNRS, UMR-5203, Institut de Génomique Fonctionnelle, Montpellier

²Inserm, U661, Montpellier

³Universités de Montpellier

Correspondence to: Sylvie Claeysen at Sylvie.Claeysen@igf.cnrs.fr

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Materials

Name	Company	Catalog Number	Comments
Fetal Bovine Serum	Lonza	14-801F	
DMEM 4.5 g/L glucose with L-glutamine	Lonza	BE12-604F	
0.05% Trypsin-EDTA (1x), phenol red	Life Technologies	25300-054	
Penicillin-Streptomycin (10,000 U/ml)	Life Technologies	15140122	
L-Glutamine, 200 mM solution	Life Technologies	25030123	
Dulbecco's Phosphate Buffered Saline	Sigma-Aldrich	D8537	
Dulbecco's Modified Eagle's Medium/Nutrient Mixture F-12 Ham	Sigma-Aldrich	D0547	Powder
Laminin - 1 mg/ml in Tris buffered NaCl	Sigma-Aldrich	L2020	
Poly-L-Ornithine hydrobromide	Sigma-Aldrich	P3655	
Insulin from porcine pancreas	Sigma-Aldrich	I5523	
apo-Transferrin human	Sigma-Aldrich	T1147	
Putrescine dihydrochloride	Sigma-Aldrich	P5780	
Progesterone	Sigma-Aldrich	P8783	
Sodium selenite	Sigma-Aldrich	S5261	
HEPES	Sigma-Aldrich	H4034	
Glycine	Sigma-Aldrich	G7126	Stock solution 1 M in water
Gelatin	Sigma-Aldrich	G9391	Stock solution 2% (w/v) in water
Triton X-100	Sigma-Aldrich	T8532	
Paraformaldehyde 16% in water	Electron Microscopy Sciences	RT 15710-S	
Sodium bicarbonate (NaHCO ₃)	Merck Millipore	106329	
D(+)-Glucose, Monohydrate	Merck Millipore	4074-2	
Hydrochloric acid - c(HCl) = 1 mol/L (1 N) Titripur	Merck Millipore	109057	
Sterile water - Aqua B. Braun	Braun		
Ethanol absolute NORMAPUR analytical reagent	VWR	20821.321	
Sterile Petri dishes	VWR	82050-566	
Pasteur pipettes plain glass - Wilhem Ulbrich GdbR.	VWR	612-2297	
Counting chamber Malassez	VWR	631-0975	

Serum Acrodisc Syringe Filter with Supor Membrane, Sterile, GF/0.2 µm, 37 mm	PALL Life science	4525	
Surgical Scissors - Straight, sharp-sharp, 14.5 cm long	Fine Science Tools	14002-14	To open the abdominal wall
Scissors - Straight, pointed, delicate, 10 cm long	MORIA	4877A	To open the uterine wall
Forceps - Curved, usual, serrated jaws 1 mm	MORIA	2183	To manipulate embryos
Vannas Scissors - Curved, pointed, 7 mm blades	MORIA	MC50	To take out the mesencephalon
Ultra Fine Forceps - Curved, delicate, 13 cm long	MORIA	9987	To remove meninges
BD BioCoat Poly-D-Lysine 24-well Multiwell Plates	BD Bioscience	356414	
BD Falcon 12-well Cell Culture Plate, flat-bottom with lid	BD Bioscience	353043	
SuperFrost Microscope Slides, Ground edges 90°	MENZEL-GLÄSER	AG00008032E	
Precision cover glasses thickness No. 1.5H circular 18 mm Ø	MARIENFELD	117580	
Polyclonal Rabbit Anti-Microtubule-Associated Protein 2 (MAP2) Antibody	Chemicon Millipore	AB5622	1/200
Monoclonal Mouse Anti-Glutamate Decarboxylase (GAD67) Antibody, clone 1G10.2	Chemicon Millipore	MAB5406	1/400
Monoclonal Rat Anti-Dopamine Transporter (DAT) Antibody, clone DAT-Nt	Chemicon Millipore	MAB369	1/500
Monoclonal Mouse Anti-5-HT Antibody			1/8,000 - Generous gift from Yves Charnay (Switzerland, Yves.Charnay@hcuge.ch)
Goat Serum, New Zealand Origin	Life Technologies	16210-064	
Alexa Fluor 405 Goat Anti-Rabbit IgG (H+L) Antibody	Life Technologies	A-31556	1/200
Alexa Fluor 488 Goat Anti-Mouse IgG (H+L) Antibody	Life Technologies	A-11001	1/1,000
Alexa Fluor 594 Goat Anti-Rat IgG (H+L) Antibody	Life Technologies	A-11007	1/1,000
VECTASHIELD HardSet Mounting Medium	Vector Laboratories	H-1400	
Stereomicroscope	Carl Zeiss microscopy	Stemi-2000C	
Bunsen Burner FIREBOY	VWR	451-0136	