

Materials List for:

A Neurosphere Assay to Evaluate Endogenous Neural Stem Cell Activation in a Mouse Model of Minimal Spinal Cord Injury

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URL: <https://www.jove.com/video/57727>

DOI: [doi:10.3791/57727](https://doi.org/10.3791/57727)

Materials

Name	Company	Catalog Number	Comments
Agricola Retractor	Fine Science Tools	17005-04	
Moria Vannas-Wolff Spring Scissors (Curved)	Fine Science Tools	15370-50	Customize when ordering to get blunted tips
Graefe Forceps (Straight, 1 x 2 Teeth)	Fine Science Tools	11053-10	
Extra Fine Graefe Forceps (Curved, Serrated)	Fine Science Tools	11152-10	Or any other forceps for suturing
Hartman Hemostats (Straight)	Fine Science Tools	13002-10	Or any other appropriate for suturing
Scalpel Handle #3	Fine Science Tools	10003-12	Or any other appropriate
Hair clippers	amazon.ca	https://www.amazon.ca/Wahl-Professional-8685-Classic-Clipper/dp/B00011K2BA	or any other appropriate
Stereotaxic instrument	Stoeling	51500	or any other appropriate
Buprenorphine			or any appropriate sanctioned my animal care facility
Meloxicam			or any appropriate sanctioned by animal care facility
Tears Naturale P.M.	Alcon	https://www.amazon.ca/Alcon-Tear-Gel-Liquid-Eye-Gel/dp/B00HHXGUXE	or any other appropriate
Isoflurane	Baxter International Inc	DIN 02225875	or any other appropriate for anesthesia
Q-tips Cotton Swabs	amazon.ca	https://www.amazon.ca/Q-Tips-Cotton-Swabs-500-Count/dp/B003M5UO6U/ref=pd_lpo_vtph_194_bs_tr_img_1/140-7113119-8364127?_encoding=UTF8&psc=1&refRID=JC16N542KVRF2N62N3DS	
Cotton Gauze	Fisher Scientific	13-761-52	
30 G Needles	Becton Dickinson	305106	For Injury
25 G Needles	Becton Dickinson	305122	For Drug injections
1 mL Syringes	Becton Dickinson	3090659	for drug injections
3 mL Syringes	Becton Dickinson	309657	for fluid injections
4-0 Suture	uoftmedstore.com	2297-VS881	for skin suturing
6-0 Suture	uoftmedstore.com	VS889	for muscle suturing
Polysporin ointment	amazon.ca	102051	
Isoflurane Vaporizer	VetEquip	901806	

15 mL conical tubes	ThermoFisher		Any appropriate
Petri Dishes	ThermoFisher		any appropriate
Trypan Blue	ThermoFisher		Any
Hemocytometer	ThermoFisher		Any appropriate
Centrifuge	ThermoFisher		Any appropriate
Standard Dissection Tools	Fine Science Tools		
Dissection Microscope	Zeiss	Stemi 2000	
Counting Microscope	Olympus	CKX41	
Neural Basal-A Medium	Invitrogen	10888-022	
B27	Invitrogen	17404-044	
Penicillin- Streptomycin	Gibco	15070	
L- Glutamine	Gibco	25030	
DMEM	Invitrogen	12100046	
F12	Invitrogen	12700075	
30% Glucose	Sigma	G6152	1 M, 9.01 g in 100 mL dH ₂ O
1 M Glucose			
7.5% NaHCO ₃	Sigma	S5761	155 mM, 1.30 g in 100 mL dH ₂ O
155 mM NaHCO ₃			
1 M HEPES	Sigma	H3375	23.83 g in 100 mL dH ₂ O
Apo-Transferrin	R&D Systems	3188-AT	
Putrescine	Sigma	P7505	
Insulin	Sigma	I5500	
Selenium	Sigma	S9133	
Progesterone	Sigma	P6149	
Papain Dissociation System	Worthington Biochemical Corporation	PDS	1 vial of papain can be used for 2 samples
Epidermal Growth Factor	Invitrogen	PMG8041	Powder reconstituted with 1mL Hormone Mix and aliquoted into 20uL vials to be stored in freezer
Fibroblast Growth Factor	Invitrogen	PHG0226	Powder reconstituted with 0.5 mL Hormone Mix and aliquoted into 20 μL vials to be stored in freezer
Heparin	Sigma	H3149	
Leukemia Inhibitory Factor	In House		
Trypan Blue			
Hemocytometer			
24 well Plates	NUNC		
2 M NaCl	Sigma	S5886	11.69 g in 100 mL dH ₂ O
1 M KCL	Sigma	P5405	7.46 g in 100 mL dH ₂ O
1 M MgCl ₂	Sigma	M2393	20.33 g in 100 mL dH ₂ O
108 mM CaCl ₂	Sigma	C7902	1.59 g in 100 mL dH ₂ O