

Materials List for:

Isolation and Culture of Adult Neural Stem Cells from the Mouse Subcallosal Zone

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Materials

Name	Company	Catalog Number	Comments
Medium components			
DMEM/F12	Gibco	11320-033	+L-glutamin, +Sodium bicarbonate
Pen/Strep	Invitrogen	15140-122	
N2 supplement	Gibco	17502-048	
B27 supplement	Gibco	17504-044	
Growth factor			
bFGF	R&D	233-FB	
EGF	Gibco	PHG0313	
Buffer			
PBS (10x)	BIOSOLUTION	BP007a	1x dilution
HBSS	Gibco	14175-095	
Dissociation buffer			
Dispase II	Roche	04-942-078-001	
Papain	Worthington	3126	
Accutase	ICT	AT-104	
Tool			
Fine forceps	WPI	555229F	
Scissors	Storz	E3321-C	
Brain matrix (1 mm)	RWD	68707	
Double-edged razor	DORCO	ST-300	
30 G needle	SUNGSIM	N1300	
Materials			
15 ml tubes	SPL	50015	
50 ml tubes	SPL	50050	
35 mm dish	SPL	10035	Petri dish
100 mm dish	SPL	10090	Petri dish
Cover slip (18 mm)	Deckglaser	111580	
12 well dish	SPL	32012	non-coating
6 well dish	SPL	32006	non-coating
Coating materials			
PLO	Sigma	P4957	0.01%
Laminin	Gibco	23017-015	10 mg/ml
Primary antibodies			
Nestin	Millipore	MAB353	mouse (1:1,000)

EGFR	Abcam	ab2430	rabbit (1:1,000)
DCX	Santa Cruz	SC8066	goat (1:500)
Tuj1	Sigma	T2200	rabbit (1:2,000)
GFAP	Invitrogen	13-0300	rat (1:1,000)
O4	Millipore	MAB345	mouse (1:500)
BrdU	Abcam	ab6326	Rat (1:500)
Secondary antibodies			
anti-mouse 488	Invitrogen	A21202	1:500
anti-mouse cy3	Jackson	715-165-151	
anti-mouse 647	Jackson	715-606-150	
anti-rabbit 488	Alexa	A21206	
anti-rabbit cy3	Jackson	711-165-152	
anti-rabbit 647	Jackson	711-605-152	
anti-goat 488	Alexa	A11055	
anti-goat cy3	Jackson	705-165-147	
anti-goat 647	Invitrogen	A21447	
anti-rat 488	Invitrogen	A21208	
anti-rat cy3	Jackson	712-166-150	
anti-rat 647	Jackson	712-605-153	
Immunostaining materials			
BSA	Millipore	82-100-6	3% BSA with 0.1% Triton X-100 in PBS
Triton X-100	usb	22686	
4% PFA	Biosesang	P2031	
Hoechst33342	Life Technology	H3570	Dye for staining nuclei