

Materials List for

Intracerebral Transplantation and *In Vivo* Bioluminescence Tracking of Human Neural Progenitor Cells in the Mouse Brain

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Materials

Name	Company	Catalog Number	Comments
Viral Transduction			
pLL-EF1a-rFLuc-T2A-GFP-mPGK-Puro (Lenti-Labeler virus)	Systembio	LL410VA-1	
Consumables			
Eppendorf microtubes; 1.5 mL	Sigma Aldrich	Z606340	
Falcon Tubes; 15 mL	TPP	91015	
Microscope cover slips			Product of choice
Microscope slides			Product of choice
Sterile cotton swabs			Product of choice
Sutures; 5/0 silk with curved needle	B. Braun	G0762482	
Syringe filter; 0.22 µm	TPP	99722	
Syringe; 1 mL and 0.5 mL	B. Braun	9166017V	
Tissue culture plate (24-well)	TPP	92024	
Equipment			
Automated cell counter (Vi-CELL XR)	Beckmann Coulter Life Science	383721	
Forceps	Fine Science Tools	11064-07	
Forceps, fine	Fine Science Tools	11412-11	
Heating pad			Product of choice
High Speed Brushless Micromotor Kit	Foredom	K.1060-22.	
Ideal Micro Drill Burr Set Of 5	Cell Point Specific	60-1000	
<i>In-Vivo</i> imaging system (IVIS Lumina III with Living Imaging 4.2 software package)	Perkin Elmer	CLS136334	
Isoflurane vaporizer	Provet AG	330724	

Microinjection Syringe Pump system	World Precision Instruments	UMP3T-1	
Microliter syringe; 700-Series; Volume: 5-10 µL	Hamilton	7635-01	
Microtome	Leica	HM430	
NanoFill-33 G-Needle (removable and reusable)	World Precision Instruments	NF33BV-2	
Needle Holder	Fine Science Tools	12001-13	
Perfusion pump and tubing	Masterflex	HV-77120-42	
Scalpel	Fine Science Tools	10003-12	
Small bonn scissors, straight	Fine Science Tools	14184-09	
Small spring scissors, straight	Fine Science Tools	15000-03	
Spatula	Merck	Z243213-2EA	
Stereotaxic frame for rodents; motorized	World Precision Instruments	99401	
Pharmaceuticals and Reagents			
Accutase	Invitrogen	A11105-01	Proteolytic and collagenolytic; cell dissociation reagent
Anti-Human Nuclei Antibody, clone 235-1, Biotin Conjugate	Merck	MAB1281B	
B27 – Supplement (50x)	Gibco	17504-001	
Betadine (11 mg Iod als Povidon-Iod pro 1 ml Lösung)	Mundipharma Medical Company	<i>All pharmaceuticals were provided by the cantonal pharmacy, Zurich, Switzerland</i>	
Blocking solution (3% donkey serum; 0.1% Triton-X-100 in PBS)			Product of choice; can be homemade
CHIR99021 (10 mM – 2,500x)	StemMACS	130-103-926	
Cryoprotectant solution			Product of choice; can be homemade
DAPI solution (1 mg/mL)	Thermo Fisher Scientific	62248	
D-Luciferin Potassium Salt	Perkin Elmer	122799	
DMEM/F12	Gibco	11320-074	
Donkey anti-Mouse IgG (H+L) Highly Cross-Adsorbed Secondary Antibody, Alexa Fluor 555	Invitrogen	A-31570	
Donkey serum			Product of choice
Esconarcon (Pentobarbitalum natricum 300 mg)	Streuli Pharma AG	<i>All pharmaceuticals were provided by the cantonal pharmacy, Zurich, Switzerland</i>	
Ethanol; 70%			Product of choice
FGF Basic recombinant human protein, Animal-origin free	Thermo Fisher Scientific	PHG6015	
Glutamax (100x)	Gibco	A12860-01	
hLif (10 µg/mL – 1,000x)	PeptoTech	AF-300-05-25UG	
Isoflurane (Isofluran (1-Chlor-2,2,2-trifluorethyl-difluoromethylether) 99.9%)	Provet AG	<i>All pharmaceuticals were provided by the cantonal pharmacy, Zurich, Switzerland</i>	
Laminin-L521 (L-521)	Biolaminin LN	LN521	
Lidocaine ointment (Lidocain: 25 mg , Prilocain: 25 mg)	Aspen Pharma Schweiz GmbH	<i>All pharmaceuticals were provided by the cantonal pharmacy, Zurich, Switzerland</i>	
Mounting Medium			Product of choice; can be homemade
N2- Supplement (100x)	Gibco	75202-001	
Neurobasal	Gibco	21103-049	

Ophthalmic lubricant (Retinol palmitat: 15,000 UI)	Bausch & Lomb Swiss AG	<i>All pharmaceuticals were provided by the cantonal pharmacy, Zurich, Switzerland</i>	
Paraformaldehyde solution			Product of choice
PBS	Thermo Fisher Scientific	10010023	Can also be homemade
Poly-L-ornithine Solution (pLO)	Sigma-Aldrich	P4957	
Rimadyl (Carprofen 50 mg)	Zoetis Schweiz GmbH	<i>All pharmaceuticals were provided by the cantonal pharmacy, Zurich, Switzerland</i>	
Ringer lactate	B. Braun	3570500	
Ringer solution	B. Braun	3570030	
Saline (0.9% NaCl)	B. Braun	3570160	
SB431542 (10 mM – 3,333.3x)	StemMACS	130-106-543	
Tissue Adhesive (Histoacryl)	B. Braun	1050060	