

Studying Pre-formed Fibril Induced α -Synuclein Accumulation in Primary Embryonic Mouse Midbrain Dopamine Neurons

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Materials

Name	Company	Catalog Number	Comments
0.4% Trypan Blue stain	Gibco, Thermo Scientific, Waltham, Massachusetts, USA	15250061	
15 ml CELLSTAR Polypropylene tube	Greiner Bio-One GmbH, Frickenhausen, Germany	188261	
4',6-diamidino-2-phenylindole (DAPI)	Sigma-Aldrich, St. Louis, Missouri, USA	10236276001	
5 M HCl	N/A	N/A	Media kitchen, Institute of Biotechnology, University of Helsinki
5 M NaOH	N/A	N/A	Media kitchen, Institute of Biotechnology, University of Helsinki
96-well ViewPlate (Black)	PerkinElmer, Waltham, Massachusetts, USA	6005182	
99.5% Ethanol (EtOH)	Altia Oyj, Rajamäki, Finland	N/A	
AquaSil Siliconizing Fluid	Thermo Scientific, Waltham, Massachusetts, USA	TS-42799	
Autoclaved 1.5 ml microcentrifuge tube	N/A	N/A	Media kitchen, Institute of Biotechnology, University of Helsinki
Bioruptor sonication device	Diagenode, Liege, Belgium	B01020001	
Ca ²⁺ , Mg ²⁺ free Hank's Balanced Salt Solution (HBSS)	Gibco, Thermo Scientific, Waltham, Massachusetts, USA	14175-053	
CellProfiler and CellAnalyst software packages	N/A	N/A	free open-source software
Centrifuge 5702	Eppendorf AG, Hamburg, Germany	5702000019	
CO ₂ Incubator	HeraCell, Thermo Scientific, Waltham, Massachusetts, USA	N/A	
Counting chamber	BioRad Inc., Hercules, California, USA	1450015	
DeltaVision Ultra High Resolution Microscope with air table and cabinet	GE Healthcare Life Sciences, Boston, Massachusetts, USA	29254706	

Deoxyribonuclease-I (Dnase I)	Roche, Basel, Switzerland	22098700	
D-glucose	Sigma-Aldrich, St. Louis, Missouri, USA	G8769	
DMEM/F12	Gibco, Thermo Scientific, Waltham, Massachusetts, USA	21331-020	
donkey anti-mouse AlexaFluor 488	Thermo Scientific, Waltham, Massachusetts, USA	A21202	
donkey anti-rabbit AlexaFluor 647	Thermo Scientific, Waltham, Massachusetts, USA	A31573	
donkey anti-sheep AlexaFluor 488	Thermo Scientific, Waltham, Massachusetts, USA	A11015	
Dulbecco's buffer	N/A	N/A	Media kitchen, Institute of Biotechnology, University of Helsinki
Fetal Bovine Serum (FBS)	Gibco, Thermo Scientific, Waltham, Massachusetts, USA	10500056	
Fisherbrand Plain Economy PTFE Stir Bar	fisher scientific, Thermo Scientific, Waltham, Massachusetts, USA	11507582	
ImageXpress Nano Automated Imaging System	Molecular Devices, San Jose, California, USA	N/A	
L-glutamine	Gibco, Thermo Scientific, Waltham, Massachusetts, USA	25030-032	
mouse monoclonal anti-tyrosine hydroxylase	Millipore, Merck KGaA, Darmstadt, German	MAB318	
N2 supplement	Gibco, Thermo Scientific, Waltham, Massachusetts, USA	17502-048	
Normal Horse Serum	Vector Laboratories Inc., Burlingame, California, United States	S-2000	
paraformaldehyde (PFA)	Sigma-Aldrich, St. Louis, Missouri, USA	158127	
paraformaldehyde powder, 95%	Sigma-Aldrich, St. Louis, Missouri, USA	158127	
pH-Fix, color-fixed indicator strips	Macherey-Nagel, Düren, Germany	92110	
Phosphatase Buffer Saline (PBS)	N/A	N/A	Media kitchen, Institute of Biotechnology, University of Helsinki
poly-L-ornithine	Sigma-Aldrich, St. Louis, Missouri, USA	P4957	
Primocin	InvivoGen, San Diego, California, USA	ant-pm-1, ant-pm-2	
rabbit monoclonal anti-alpha-synuclein filament	Abcam, Cambridge, United Kingdom	ab209538	
rabbit monoclonal anti-phospho-serine129-alpha-synuclein	Abcam, Cambridge, United Kingdom	ab51253	
RCT Basic, IKA Magnetic Stirrer	IKA®-Werke GmbH, Staufen, Germany	3810000	
recombinant human glia-derived neurotrophic factor (hGDNF)	PeproTech, Rocky Hill, NJ, USA or Prospec, Ness-Ziona, Israel	450-10 (PeproTech), CYT-305 (Prospec)	
recombinant mouse alpha synuclein Pre-Formed Fibrils (PFFs)	N/A	N/A	Gift from collaborator, Prof. Kelvin C Luk
Research Stereomicroscope System	Olympus Corporation, Tokyo, Japan	SZX10	
sheep polyclonal anti-tyrosine hydroxylase	Millipore, Merck KGaA, Darmstadt, German	ab1542	
TC 20 Automated Cell Counter	BioRad Inc., Hercules, California, USA	1450102	
Triton X-100	Sigma-Aldrich, St. Louis, Missouri, USA	11332481001	

trypsin	MP Biomedicals, Valiant Co., Yantai, Shandong, China	2199700	
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