

Materials List for:

Streamlined 3D Cerebellar Differentiation Protocol with Optional 2D Modification

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Materials

Name	Company	Catalog Number	Comments
DMEM/F12+Glutamax	Gibco	31331-028	glutamine fortified DMEM/F12
Neurobasal medium	Gibco	21103-049	neural basic medium
N2 supplement	Gibco	17502-048	
B27 supplement	Gibco	17504001	
Insulin	Imgen	PT468-B	
L-glutamine	Gibco	25030-024	
Non-essential Amino Acids (NEAA)	Gibco	11140-035	
beta-mercaptoethanol	Gibco	21985-023	
Poly-L-Ornithine	Sigma	P3655	
Poly (2-hydroxyethyl methacrylate)	Sigma	P3932	aka Poly-Hema
Laminin	Sigma	L2020	
E8 medium and supplement	Gibco	A1517001	hPSC medium and supplement
Penicillin/Streptomycin	Gibco	15140-122	
Sodium Chloride	Sigma	S-5886	
γ-27632 (ROCK inhibitor)	SelleckChem	S1049-10mg	
DMSO	Sigma	D-2650	
Geltrex	Gibco	A1413302	hPSC-appropriate adherent coating (PAAC)
0,5M EDTA	Gibco	15575-020	
0.2 um filter	VWR	28145-77	
1.5 mL Eppendorf tube	VWR	525-0130	
DMEM/F12	Gibco	21331-020	
Ethanol	VWR	83804360	
Parafilm	Sigma	PM996	wrap for culture plates
cryotubes	ThermoFisher	368632	
TrypLE	Gibco	12563-029	trypsin-based dissociation agent
Defined Trypsin Inhibitor (DTI)	Gibco	R-007-100	
FGF-2	Peprotech	100-18B	
FGF-4	R&D Systems	100-31	
FGF-8B	Peprotech	100-25	
Retinoic Acid	Sigma	R2625	
Brain Derived Neurotrophic Factor	Peprotech	450-02	
Glial Derived Neurotrophic Factor	Peprotech	450-10	

Potassium Chloride	Sigma	P5405	
Neurotrophic Factor 3	Peprtech	450-03	
Smoothened Agonist (SAG)	Cayman	11914	CAS 912545-86-9
Axiovert 40C microscope	Zeiss		Brightfield imaging microscope
Axiocam	Zeiss		Brightfield imaging - image aquisition
Eppendorf Centrifuge 5810	Eppendorf	521-0996	centrifuge for cell culture
PBS (gebufferde natrium oplossing)	Braun Medical	3623140	
5 ml Serological pipets	VWR	612-4950	
10 ml Serological pipets	VWR	612-4951	
6-wells culture plates	VWR	734-2323	
12-wells culture plates	VWR	734-2324	
hESCs	WiCELL		line H01