

Materials List for

Preparing Retinal Organoid Samples for Transmission Electron Microscopy

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Materials

Name	Company	Catalog Number	Comments
100 mm Petri dish	Corning	430167	
Acetone	Electron Microscopy Science	10000	
B27 supplement	Gibco	A3582801	
Cell lifter	Santa Cruz	sc-395251	
Copper grids	Beijing Zhongjingkeyi Technology Co., Ltd.	AZH400HH	
DigitalMicrograph Software	Gatan, Inc.		Software
Dispase	StemCell Technologies	#07913	Bacterial protease
DMEM/F12 medium	Gibco	#11320033	
Embedding mold	Beijing Zhongjingkeyi Technology Co., Ltd.	GZ10592	
Epon-812 resin	Electron Microscopy Science	#14900	
Fetal Bovine Serum (FBS)	Biological Industries	#04-0021A	
Glutaraldehyde	Electron Microscopy Science	16020	
hiPSC	Shownin Biotechnology Co. Ltd.	RC01001-A	
Lead citrate	Beijing Zhongjingkeyi Technology Co., Ltd.	GZ02618	
L-GlutaMax	Life Technologies	#35050061	L-glutamine substitute
Matrigel	Corning	356234	
Microscope slide	CITOTEST	80312-3161	
N2 supplement	Gibco	17502048	
Na ₂ HPO ₄ · 12H ₂ O	Sigma	71650	A component of PB/PBS
NaH ₂ PO ₄ · H ₂ O	Sigma	71507	A component of PB/PBS
Non-essential amino acids	Sigma	#M7145	
Optical microscope	Lab Binocular Biological Microscope	Xsz-107bnii	
OsO ₄	TED PELLA	4008-160501	
Oven	Bluepard	BPG9040A	

Paraformaldehyde	Electron Microscopy Science	157-8	
Penicillin-Streptomycin	Gibco	#15140-122	
Semi/ultrathin microtome	Reichert-Jung	396649	
Taurine	Sigma	#T0625	
Toluidine blue	Sangon Biotech	E670105-0100	
Transmission Electron Microscopes	HITACHI	H-7500	
Uranyl acetate	TED PELLA	CA96049	
β -mercaptoethanol	Sigma	444203	