

Organotypic Retinal Explant Cultures from Macaque Monkey

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Materials

Name	Company	Catalog Number	Comments
Bovine Serum Albumin (BSA)	Sigma	B2064	Blocking solution
Corticosterone	Sigma	C2505	Supplements of Complete Medium
DL-tocopherol	Sigma	T1539	Supplements of Complete Medium
Donkey anti sheep, Alxea Fluor 488	Life technologies corporation	A11015	Secondary antibody of cGMP
Ethanol-acetic acid solution	Shyuanye	R20492	Fixing liquid
Fetal Bovine Serum	Gemini	900-108	Blocking solution
Fluorescence microscope	Carl Zeiss	Axio Imager.M2	Immunofluorescence imaging
Glutamine	Sigma	G8540	Supplements of Complete Medium
Glutathione	Sigma	G6013	Supplements of Complete Medium
In Situ Cell Death Detection Kit, TMR red	Roche	12156792910	TUNEL assay
Insulin	Sigma	16634	Supplements of Complete Medium
L-cysteine HCl	Sigma	C7477	Supplements of Complete Medium
Linoleic acid	Sigma	L1012	Supplements of Complete Medium
MACS Tissue Storage Solution	Miltenyi	130-100-008	Optimized storage of fresh organ and tissue samples
Normal Donkey Serum	Solarbio	SL050	Blocking solution
Paraformaldehyde(PFA)	Biosharp	BL539A	Fixing agent
PEN. / STREP. 100×	Millipore	TMS-AB2-C	Penicillin / Streptomycin antibiotics
Phosphate buffer saline(PBS)	Solarbio	P1010	Buffer solution
Povidone-iodine	Shanghaiikang	310411	Disinfectant agent
Progesterone	Sigma	P8783	Supplements of Complete Medium
Proteinase K	Millipore	539480	Break down protein
R16 medium	Life technologies corporation	074-90743A	Basic medium
Retinol	Sigma	R7632	Supplements of Complete Medium
Retinyl acetate	Sigma	R7882	Supplements of Complete Medium

Sheep anti-cGMP	Jan de Vente, Maastricht University, the Netherlands		Primary antibody of cGMP
Sucrose	GHTECH	57-50-1	Dehydrating agent
T3	Sigma	T6397	Supplements of Complete Medium
Tissue-Tek medium (O.C.T. Compound)	SAKURA	4583	Embedding medium
Tocopheryl acetate	Sigma	T1157	Supplements of Complete Medium
Transferrin	Sigma	T1283	Supplements of Complete Medium
Transwell	Corning Incorporated	3412	Cell / tissue culture
Tris-buffer (TBS)	Solarbio	T1080	Blocking buffer
Triton X-100	Solarbio	9002-93-1	Surface active agent
VECTASHIELD Medium with DAPI	Vector	H-1200	Mounting medium
Vitamin B1	Sigma	T1270	Supplements of Complete Medium
Vitamin B12	Sigma	V6629	Supplements of Complete Medium
Vitamin C	Sigma	A4034	Supplements of Complete Medium
Zaprinast	Sigma	Z0878	PDE6 inhibitor
Zeiss Imager M2 Microscope	Zeiss, Oberkochen, Germany		upright microscope
LSM 900 Airyscan			high resolution laser scanning microscope
Zeiss AxioCam	Zeiss, Oberkochen, Germany		digital camera
Zeiss Axiovision4.7			
Adobe			
Illustrator CC 2021 (Adobe Systems Incorporated, San Jose, CA)			
Primate eyeballs from wildtype macaque	KUNMING INSTITUTE OF ZOOLOGY	SYXK (滇) K2017 -0008	
Super Pap Pen Pen (Liquid Blocker, Diado, 0010, Japan)			
TUNEL kit solution (REF12156792910, Roche, Germany),			