

Materials List for

Isolation and Identification of Limbal Niche Cells

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Materials

Name	Company	Catalog Number	Comments
4',6-Diamidino-2-Phenylindole	ThermoFisher	D1306	5µg/mL
Amphotericin B	Sigma	V900919	1.25 µg/mL
Anti-CD73	Abcam	ab202122	1:50
Bovine Serum Albumin	MERCK	A1933	-
CD105	Proteintech	67075-1-Ig	1:200
CD105	Abcam	ab114052	1:50
CD90	Proteintech	66766-1-Ig	1:100
CD90	Abcam	ab307736	1:50
Cell Incubator	Shanghai Lishen	K1119K4644	HF90(HT)
Centrifuge system	StatSpin	StatSpin CytoFuge 12	-
Collagenase A	Roche	10103578001	2 mg/mL
Confocal microscope	Zeiss	LSM700	-
Culture plate	viryra	3500356	35 mm
DME/F-12 1:1 (1x)	cytiva	SH30023.01	90%
Donkey anti-Mouse IgG (H+L) Secondary Antibody	ThermoFisher	A16016	1:1000
Donkey anti-rabbit IgG (H+L) Secondary Antibody	ThermoFisher	31568	1:1000
FACS Diva software	BD Biosciences	Tree Star	-
Flow Cytometer	BD Biosciences	Becton Dickinson LSRII	-
Fluorescence microscope	olympus	cx31	
Gentamicin	Sigma	G1914	50 µg/mL
Hemocytometer	MERCK	Z359629	Bright-Line
High-capacity cDNA Transcription Kit	ThermoFisher	4374966	
Inverted phase-contrast microscope	UOP	DSZ2000X	
ITS (insulin, transferrin, sodium selenite)	Sigma	I3146	5 µg/mL insulin, 5 µg/mL transferrin, 5 ng/mL sodium selenite
KnockOut SR Serum Replacement for ESCs/iPSCs	gibco	10828-028	10%
Matrigel	BioCoat	356234	-
Pan-CK	Abcam	ab7753	1:1000
Paraformaldehyde	NoninBio	NBS0135	4.00%
Paraformaldehyde	MKBio	MM-1505	4%

PDGFR β	Abclonal	A1444	1:100
Real-time fluorescence quantitative PCR instrument	Applied Biosystems	Step One Plus	-
Recombinant Human FGF-basic	Peprotech	100-18B	4 ng/mL
Recombinant Human Leukemia Inhibitory Factor(Lif)	Peprotech	300-05	10 ng/mL
RNeasy Mini RNA Isolation Kit	Qiagen	74104	-
SCF	Bioss	bs-0545R	1:100
SCF	Abcam	ab52603	1:50
Stereomicroscope	ZEISS	SteREO Discovery. V8	
Sterile surgical round blade	Careforde	29500	size 10
TaqMan Gene Expression Assay Mix	Applied Biosystems	4448489	
Triton X-100	MERCK	X100	0.20%
Trypan blue	ThermoFisher	15250061	0.40%
Trypsin-EDTA	Genview	GP3108	0.25%
Tween 20	MERCK	P9416	-
Ultra Clean Bench	LaiTe	LT20200705	SW-CJ-IFDG
Universal PCR Master Mix	Applied Biosystems	4304437	
Vim	Abcam	ab92547	1:100