

Materials List for:

Human Primary Trophoblast Cell Culture Model to Study the Protective Effects of Melatonin Against Hypoxia/reoxygenation-induced Disruption

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URL: <https://www.jove.com/video/54228>

DOI: [doi:10.3791/54228](https://doi.org/10.3791/54228)

Materials

Name	Company	Catalog Number	Comments
Curved Metzenbaum Scissors	Shandon	9212	surgical equipment (cell isolation) (2 units)
Splinter Forceps Fine 41/2 in	Fisherbrand	13-812-42	surgical equipment (cell isolation) (2 units)
Scissors 4.5 Str Dissection	Fisherbrand	08-940	surgical equipment (cell isolation) (2 units)
Gauze Sponge 10 cm x 10 cm	Cardinal Health	361020733	
Oblong Glass Baking Dish	Pyrex	1105397	Glassware (2.8 L)
Funnel Buchner	Coorstek Inc	10-356E	Glassware (114 mm diameter)
Watch Glass	pyrex	9985100EMD	Glassware
Formalin solution, neutral buffered, 10%	Sigma-Aldrich	HT501128-4L	histological tissue fixative solution
Trypsinizing Flasks	Wheaton	355395	Glassware (1 unit)
Disposable Culture Tubes	Kimble	73750-13100	Glassware
Borosilicate Glass Pasteur Pipet (22.8 cm)	Fisherbrand	K63B1367820C	Glassware
250 ml Glass Beakers	Fisherbrand	KFS14005250	Glassware
Glass Media Bottles With Cap	Fisherbrand	KFS14395250	Glassware (8 units)
50 ml Corex Tube	Corning	8422-A	(1 unit)
15 ml Polystyrene Centrifuge Tube	Corning	430791	
50 ml Polystyrene Centrifuge Tube	Corning	430829	
10 ml Serological Pipet	Corning	11415038	
Cell Strainer 100 µm Nylon	Corning	431752	
Absorbant Liner	Scienceware	1199918	
500 ml Bottles Top Filter	Corning		Pore: 0.22 µm / medium and HBSS preparation
2 ml Criogenic Vials	Corning	430488	
Freezing Container, Nalgene Mr. Frosty	Sigma-Aldrich	C1562-1EA	
Peristaltic Pump	Pharmacia Fine Chemicals	P3 model	
Shaking Water Bath	Fisher	Model 127	
Vacuum Pump	ABM	4EKFS6CX-4	
Sodium Chloride	Fisherbrand	EC231-598-3	Saline solution 0.9%
Hank's Buffered Salt Solution (Hbss)	Sigma-Aldrich	H2387	Quantity: 9.25 (one vial) for 1 L of digestion solution

Hydroxypiperazineethansulphonic Acid (Hepes)	Life Technologies	15630-080	25 ml (1 M) for 1 L of digestion solution
Trypsin Type I	Sigma-Aldrich	T8003	9,888 U
Deoxyribonuclease Type Iv	Roche	10-104-159-001	402,000 U
Calcium Chloride	Sigma-Aldrich	C4901	100 mM
Magnesium Sulfate	Baker	2500-01	800 mM
Dulbecco's Modified Eagle Medium High Glucose (Dmem)	Life Technologies	10564-045	
Penicillin/Streptomycin Sulphate	Hyclone	SV30010	
Fetal Bovine Serum	Corning	35-010-CV	
Percoll	Sigma-Aldrich	P1644	Density centrifugation media gradient. Volume: 36 ml
Isopropanol	Acros	42383-0010	50 ml
Dimethyl Sulfoxide	Sigma-Aldrich	472301	
Automacs Magnetic Separator	Miltenyi Biotec	Model 003	
Automacs Columns	Miltenyi Biotec	130-021-101	
Automacs Running Buffer	Miltenyi Biotec	130-091-221	http://www.miltenyibiotec.com/~media/Images/Products/Import/0001100/IM0001131.ashx?force=1
Automacs Rinsing Solution	Miltenyi Biotec	130-091-222	http://www.miltenyibiotec.com/en/products-and-services/macs-cell-separation/cell-separation-buffers/automacs-rinsing-solution.aspx
Anti-Human Hla Abc Purified Clone W6/32	Affymetrix eBioscience	14-9983-82	anti-mouse antibody
Anti Mouse IgG Microbeads	Miltenyi Biotec	130048401	
Multiple Well Plate - 6 Well With Lid	Corning	3335	Cell Bind surface
Multiple Well Plate - 24 Well With Lid	Corning	3337	Cell Bind surface
Multiple Well Plate - 96 Well With Lid	Corning	3300	Cell Bind surface
Modular Incubator Chamber	Billups-Rothenberg	MIC-101	A set of two is necessary for simultaneous to generate normoxia and hypoxia/reoxygenation conditions
Single Flow Meter	Billups-Rothenberg	SFM3001	
50 mm In-Line Filter	Whatman	6721-5010	PTFE, pore: 1.0 µm
Gas Regulator	Pro Star	PRS301233	A set of two is necessary for simultaneous to generate normoxia and hypoxia/reoxygenation conditions
Gas Hose Class Vi Clear 5/16	Parker	100-05070102	3 pieces with ~ 0.5 m
17 mm Adjustable Gas Hose Clamp	Tiewraps	THCSS-16	
Normoxia Gas Cylinder	Praxair	NI CDOXR1U-K	Size K (3 rd trimester's composition: 5% CO ₂ , 8% O ₂ , Bal. N ₂)
Normoxia Gas Cylinder	Praxair	NI CDOXR1U-K	Size K (3 rd trimester's composition: 5% CO ₂ , 0.5% O ₂ , Bal. N ₂)
Oxygen Microelectrode Mi-730	Microelectrodes INC	84477	
Oxygen Adapter	Microelectrodes INC	3572	

ROS Detection Reagent: CM-H ₂ DCFDA	Invitrogen	C-400	
β-hCG ELISA kit	DRG international	EIA-4115	
Anti-Vimentin purified antibody	eBioscience	14-9897	Host: mouse
Anti-Cytokeratin 7 (FITC) antibody	Abcam	ab119697	Host: mouse
Alexa Fluor 488 Goat Anti-mouse IgG H&L antibody	Life Technologies	A-11029	