

Materials List for:

Using *Ex Vivo* Upright Droplet Cultures of Whole Fetal Organs to Study Developmental Processes during Mouse Organogenesis

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Materials

Name	Company	Catalog Number	Comments
Superfrost Plus Microscope Slides	Fisherbrand	12-550-15	
Cover Glasses: Squares (22 mm x 22 mm, No. 1.5)	Fisherbrand	12-541B	
Sally Hansen Xtreme Wear Nail Polish, Invisible	Sally Hansen		
8-Strip 0.2 ml PCR Tubes & Detached Flat Caps	GeneMate	T3218-1	
Pipetman L P1,000L, P200L, P20L, P10L, P2L	Gilson	FA10006M, FA10005M, FA10003M, FA10002M, FA10001M	
Dumont #5 Forceps	FST	91150-20	
Fine Scissors	FST	91460-11	
Posi-Click 1.7 ml microcentrifuge tubes	Denville	C2170	
Posi-Click 0.6 ml microcentrifuge tubes	Denville	C2176	
10 µl SHARP Precision Barrier Tips	Denville	P1096FR	
20 µl SHARP Precision Barrier Tips	Denville	P1121	
200 µl SHARP Precision Barrier Tips	Denville	P1122	
1,000 µl SHARP Precision Barrier Tips	Denville	P1126	
1 ml syringe with 27 gauge needles	BD PrecisionGlide	309623	
10 ml syringe	BD	305559	
0.2 µM PES syringe filter	VWR	28145-501	
Grade 3 Qualitative Filter Paper Standard Grade, circle, 185 mm	Whatman	1003-185	
Primaria 35 mm Easy Grip Style Cell Culture Dish	Falcon/Corning	353801	
Petri Dishes, Sterile (100 mm x 15 mm)	VWR	25384-088	
New Brunswick Galaxy 14 S CO ₂ Incubator	Eppendorf	CO14S-120-0000	
Biosafety Cabinet	Nuare	NU-425-400	
Mini-centrifuge	Fisher Scientific	05-090-100	
BioExpress GyroMixer Variable XL	GeneMate	R-3200-1XL	
Mastercycler Pro Thermal Cycler with control panel	Eppendorf	950040015	
SMZ445 stereomicroscope	Nikon	SMZ445	

Multimage Light Cabinet with AlphaEase Software	Alpha Innotech Corporation	Discontinued	
Absolute 200 proof Ethanol	Fisher	BP2818-500	
Triton X-100	Fisher	BP151-100	
Sodium Phosphate (Dibasic MW 142) Na ₂ HPO ₄	Fisher	S374-1	
Potassium Phosphate (Monobasic MW 136) KH ₂ PO ₄	Sigma-Aldrich	P5379-1KG	
Sodium Chloride (NaCl)	Fisher	S671-3	
Potassium Chloride (KCl)	Sigma-Aldrich	P3911-1KG	
Magnesium Chloride (MgCl ₂)	Sigma	M2393-100g	
Calcium Chloride (CaCl ₂)	Sigma	C5670-100g	
Ambion Nuclease-Free Water	Life Technologies	AM9938	
XY PCR Primer	IDT	N/A	
Glacial Acetic Acid	Fisher	A38-500	
Ethylenediamine Tetraacetic Acid (EDTA)	Fisher	BP2482-1	
1% Ethidium bromide solution	Fisher	BP1302-10	Toxic
Agarose	GeneMate	E-3120-500	
Sodium Hydroxide (NaOH)	Sigma-Aldrich	367176-2.5KG	
Trizma Base	Sigma	T1503-1KG	
dNTP Set, 100 mM Solutions	Thermo Scientific	R0182	
DNA Choice Taq polymerase with 10x Buffer	Denville	CB-4050-3	
Paraformaldehyde	Fisher	O4042-500	Toxic
FluorMount-G	Southern Biotech	0100-01	
Hydrogen Chloride (HCl)	Fisher	A144212	
Bovine Serum Albumin (BSA), powder, Fraction V, Heat shock isolation	Bioexpress	0332-100g	
Dulbecco's Modified Eagle Medium (DMEM)	Life Technologies	11965-092	
Fetal Bovine Serum (FBS), triple 100 nm filtered	Fisher	03-600-511	Heat-inactivate before using
Penicillin-Streptomycin (10,000 U/ml)	Life Technologies	15140-122	Use at 1:100
Dimethyl sulfoxide (DMSO), Hybrimax, sterile-filtered	Sigma	D2650	
VEGFR Tyrosine Kinase Inhibitor II - CAS 269390-69-4 - Calbiochem	EMD Millipore	676481	
Rabbit Anti-Sox9 Antibody	Millipore	AB5535	Use at dilution: 1:4,000
Rat Anti-Mouse PECAM1 (CD31) Antibody	BD Pharmingen	553370	Use at dilution: 1:250
Rabbit Cleaved Caspase-3 (Asp175) Antibody	Cell Signaling	9661S	Use at dilution: 1:250
Rat E-cadherin / CDH1 Antibody (ECCD-2)	Life Technologies	13-1900	Use at dilution: 1:500
Hoechst 3342, trihydrochloride, trihydrate	Invitrogen (Molecular Probes)	H1399	Use at 2 ug/ml
Cy3 AffiniPure Donkey Anti-Rat IgG (H+L)	Jackson Immunoresearch	712-165-153	Use at dilution: 1:500

Alexa Fluor 647 AffiniPure Donkey Anti-Rat IgG (H+L)	Jackson Immunoresearch	712-605-153	Use at dilution: 1:500
Donkey anti-Rabbit IgG (H+L) Secondary Antibody, Alexa Fluor 555 conjugate	Life Technologies	A31572	Use at dilution: 1:500
Donkey anti-Rabbit IgG (H+L) Secondary Antibody, Alexa Fluor 488 conjugate	Life Technologies	A21206	Use at dilution: 1:500
Donkey anti-Rat IgG (H+L) Secondary Antibody, Alexa Fluor 488 conjugate	Life Technologies	A21208	Use at dilution: 1:500
Donkey anti-Rabbit IgG (H+L) Secondary Antibody, Alexa Fluor 647 conjugate	Life Technologies	A31573	Use at dilution: 1:500