

Materials List for

Fixation of Embryonic Mouse Tissue for Cytoneme Analysis

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jove.com/video/64100

Materials

Name	Company	Catalog Number	Comments
12-well plate; Nunc Cell-Culture Treated	Thermo Scientific	150628 (Fisher Scientific 12-565-321)	
24-Well Plate, Round Nunc	Thermo Fisher Scientific	142475	
60 mm dish	Corning, Falcon	353004 (Fisher Scientific 08772F)	
Absorbant towels (Professional Kimtech Science Kimwipes)	Kimberly-Clark KIMTECH	34155 (Fisher Scientific 06666A)	
Actin Red 555 ReadyProbes Reagent	Invitrogen	R37112	
Alexa Fluor 488 AffiniPure F(ab') ₂ Fragment Donkey Anti-Chicken IgY (IgG) (H+L)	Jackson Immunoresearch Lab Inc	703-546-155	1:1,000 working concentration
Bead Bath 6L 230V	Lab Armor	Item #12L048 (Mfr. Model #74220-706)	set to 55 °C
chicken anti-GFP	Aves Labs	SKU GFP-1020	1:250 working concentration
CO ₂ chamber			plexiglass chamber connected to a CO ₂ emitting line.
Confocal laser-scanning microscope	Leica Microsystems	model: Leica TCS SP8	
DAPI Solution (1 mg/mL)	Thermo Fisher Scientific	62248	
Dissecting scissors (Vannas Scissors)	World Precision Instruments	14003	
Dulbecco's Modified Eagle Medium, high glucose, no glutamine	Thermo Fisher Scientific, Gibco	11960044	
Eppendorf Research Plus single channel pipette, 0.1-2.5 µL	Eppendorf	3123000012	
Eppendorf Research Plus single channel pipette, 0.5-10 µL	Eppendorf	3123000020	
Eppendorf Research Plus single channel pipette, 100-1,000 µL	Eppendorf	3123000063	
Eppendorf Research Plus single channel pipette, 20-200 µL	Eppendorf	3123000055	
Feather Disposable Scalpel #10	Fisher Scientific	Catalog No.NC9999403	

Fetal Bovine Serum, certified, United States	Thermo Fisher Scientific, Gibco	16000044	
Fisherbrand Fine Point High Precision Forceps	Fisher Scientific	22-327379	
Fisherbrand Labeling Tape	Fisher Scientific	15-954	
Formaldehyde, 16%, methanol free, Ultra Pure EM Grade	Polysciences	18814-10	
Hank's Balanced Salt Solution (HBSS)	Thermo Fisher Scientific, Gibco	14025	
ImmEdge Hydrophobic Barrier Pap Pen	Vector laboratories	H-4000	
Leica Application Suite X (LAS X) with LIGHTNING	Leica Microsystems		Microscope software
L-Glutamine (200 mM)	Thermo Fisher Scientific, Gibco	25030081	
Low Melting Point Agarose-UltraPure	Invitrogen	16520	
MEM Non-Essential Amino Acids Solution (100x)	Thermo Fisher Scientific, Gibco	11140050	
Moria MC 17 BIS Perforated Spoon	Fine Science Tools	1037018	
Mounting media (ProLong Diamond Antifade Mountant)	Thermo Fisher Scientific, Invitrogen	P36961	
Mouse: B6.129X1(Cg)-Shh ^{tm6Amc} /J (Shh ^{GFP/+})	The Jackson Laboratory	Strain #:008466	
Mouse: B6.Cg-Shh ^{tm1(EGFP/cre)Cjt} /J (Shh-Cre)	The Jackson Laboratory	Strain #:005622	
Mouse: C57BL/6J (B6)	The Jackson Laboratory	Strain #:000664	
Mouse: Gt(ROSA)26Sor ^{tm4(ACTB-tdTomato,-EGFP)Luo} /J (Rosa26 mTmG)	The Jackson Laboratory	Strain #:007576	
Normal Goat Serum	Jackson ImmunoResearch	005-000-121 (Fisher Scientific NC9660079)	
PBS + Ca ²⁺ + Mg ²⁺	Thermo Fisher Scientific, Gibco	14040133	
Premium Microcentrifuge Tubes: 1.5 mL	Fisher Scientific	05-408-129	
SHARP Precision Barrier Tips, Extra Long for P-10 and Eppendorf 10 µL	Denville Scientific	P1096-FR	
SHARP Precision Barrier Tips, For P-1000 and Eppendorf 1,000, 1,250 µL	Denville Scientific	P1126	
SHARP Precision Barrier Tips, For P-20 and Eppendorf 20 µL	Denville Scientific	P1121	
SHARP Precision Barrier Tips, For P-200 and Eppendorf 200 µL	Denville Scientific	P1122	
Sodium Azide	Sigma-Aldrich	S8032	
Sodium Pyruvate (100 mM) (100x)	Thermo Fisher Scientific, Gibco	11360070	
Super Glue	Gorilla		
SuperFrost Plus microscope slides	Fisher Scientific	12-550-15	
TPP centrifuge tubes, volume 15 mL, polypropylene	TPP Techno Plastic Products	91015	
TPP centrifuge tubes, volume 50 mL, polypropylene	TPP Techno Plastic Products	91050	
Transfer pipette, polyethylene	Millipore Sigma	Z135003	
Triton X-100	Sigma-Aldrich	T9284	
Tween-20	Sigma-Aldrich	P1379	

Vari-Mix Platform Rocker	Thermo Fisher Scientific	09-047-113Q	set to 20 RPM
Vibratome	Leica Biosystems	VT1000 S	