

Materials List for:

Hepatocyte-specific Ablation in Zebrafish to Study Biliary-driven Liver Regeneration

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Materials

Name	Company	Catalog Number	Comments
3-amino benzoic acid ethyl ester (Tricaine) powder	Sigma-Aldrich	A5040	Make 0.4% (15 mM) tricaine stock : Bring 0.4 g tricaine to 100 mL with egg water. Adjust to pH 7.
Dimethyl sulfoxide (DMSO)	Sigma-Aldrich	D8418	
Metronidazole	Sigma-Aldrich	M1547	
Triton X-100	Sigma-Aldrich	T8532	
Formaldehyde	Sigma-Aldrich	252549	
Calcium sulfate dihydrate	Sigma-Aldrich	C3771	
N-Phenylthiourea (PTU)	Sigma-Aldrich	P7629	
Mounting media (Vectashield)	Vector Laboratories	H-1000	
100 x 15 mm petri dish	Denville Scientific Inc.	M5300	
clear nail polish	Fisher Scientific	50949071	
fine forceps	Fine Science Tools	11251-20	Dumont #5
glass slide	Fisher Scientific	12-544-1	
glass coverslip	Fisher Scientific	12-540-A and 12-542-A	18 x 18 mm
zn-5 (mouse anti-Alcam)	ZIRC	zn-5	1:10 dilution
goat anti-Hnf4a	Santa Cruz	sc-6556 (C-19)	1:50 dilution
rat anti-RFP	Allele Biotechnology	ACT-CM-MRRFP10	1:300 dilution
AlexaFluor 647 AffiniPure Donkey Anti-goat IgG (H+L)	Jackson laboratories	705-605-147	1:500 dilution
AlexaFluor 647 AffiniPure Goat Anti-mouse IgG (H+L)	Invitrogen	A21240	1:500 dilution
Cy3 donkey anti-rat IgG	Jackson laboratories	712-165-150	1:500 dilution
dissecting microscope	Leica Microsystems	S6F	
epifluorescence microscope	Leica Microsystems	M205FA	
confocal microscope	Carl Zeiss	LSM700	
egg water			0.3 g/L of sea salts 'Instant Ocean' and 0.5 mM CaSO ₄ in distilled water.
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10X PBS			25.6 g Na ₂ HPO ₄ ·7H ₂ O, 80 g NaCl, 2 g KCl, 2 g KH ₂ PO ₄ . Bring to 1 L with distilled water. Adjust pH 7. Autoclave for 20 min at 121°C.
1X PBSDT			0.2% Triton X-100 and 0.2% DMSO in 1 X PBS.
PEM buffer			30.2 g PIPES, 761 mg EGTA, 1 mM MgSO ₄ . Bring to 1 L with distilled water. Adjust pH 7.
Blocking solution			Mix 1 ml of heat-inactivated horse serum with 9 ml of 1X PBSDT.