

Materials List for:

Following Endocardial Tissue Movements via Cell Photoconversion in the Zebrafish Embryo

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Materials

Name	Company	Catalog Number	Comments
Materials			
Necessary equipment for raising fish and collecting eggs (see the Zebrafish Book ²² for details).			
Stereomicroscope			
Upright confocal microscope (Equipped with lasers operating at 488 nm, 561 nm, and 405 nm, a tunable multiphoton laser, and a Leica HCX IRAPO L, 25 ×, N.A. 0.95 objective)	Leica	Leica SP8	
Heat block	ThermoScientific	88870001	
35 mm x 10 mm tissue culture dish	Falcon	353001	
6 well plate	Falcon	353046	
Petri dish			
Forceps			
Glass pipette			
Mold			
Reagents			
8 mg/mL Tricaine stock solution			
1 M BDM stock solution			
UltraPure low melting point agarose	Invitrogen	16520-050	
Agarose	Lonza	50004	
PTU (1-phenyl-2-thiourea)	Sigma Aldrich	P7629	
Embryo medium: 30x stock solution			
Software			
Matlab equipped with the Image Analysis, Curve Fitting, Bio-Formats Toolboxes	MathWorks		
8 mg/mL Tricaine stock solution			
200 mg of tricaine powder (Ethyl 3-aminobenzoate methanesulfonic acid)	Sigma-Aldrich	E10521	

25 mL Danieau			
Adjust to pH 7, aliquot and store at -20 °C			
1 M BDM stock solution			
1 g BDM	Sigma-Aldrich	112135	
10 mL ddH ₂ O			
Aliquot and store at -20 °C			
Embryo medium: 30x stock solution			
50.7 g NaCl	Sigma-Aldrich	7647-14-5	
0.78 g KCl	Sigma-Aldrich	7447-40-7	
1.47 g Magnesium sulfate	Sigma-Aldrich	7487-88-9	
2.1 g Calcium nitrite tetrahydrate	Sigma-Aldrich	13477-34-4	
19.52 g HEPES (4-(2-hydroxyethyl)-1-piperazineethanesulfonic acid)	Sigma-Aldrich	7365-45-9	
Adjust to pH 7.2 and store at room temperature			
Mold			
PlasCLEAR resin	Asiga		
Plus 39 Freeform Pico 3D printer	Asiga		