

Materials List for:

Using Confocal Analysis of *Xenopus laevis* to Investigate Modulators of Wnt and Shh Morphogen Gradients

Simon W. Fellgett¹, Simon A. Ramsbottom², Richard J. Maguire³, Stephen Cross⁴, Peter O'Toole⁵, Mary E. Pownall⁵

¹Department of Biomedical Science, The Bateson Centre, University of Sheffield

²Institute of Genetic Medicine, Newcastle University

³Department of Cardiovascular Science, The Bateson Centre, University of Sheffield

⁴School of Biochemistry, University of Bristol

⁵Biology Department, University of York

Correspondence to: Mary E. Pownall at betsy.pownall@york.ac.uk

URL: <https://www.jove.com/video/53162>

DOI: [doi:10.3791/53162](https://doi.org/10.3791/53162)

Materials

Name	Company	Catalog Number	Comments
Agarose	Melford	MB 1200	
Ammonium acetate	Ambion	From Megascript SP6 Kit AM 1330	
Bicarbonate	VWR International	RC-091	
Calcium nitrate	Sigma	C13961	
Cap analog (m7G(5'))	Applied Biosystems	AM 8050	
Chloroform	Sigma	C 2432	
L-Cysteine hydrochloride monohydrate	Sigma	C7880	
dNTPs	Invitrogen	18427-013	
Ethylenediaminetetraacetic acid (EDTA)	Sigma	O3690	
Ethanol	VWR International	20821.33	
Ficoll 400	Sigma	F 4375	
Fiji image J software			Free download http://fiji.sc/Fiji
Gentamycin	Melford	G 0124	
Glacial acetic acid	Fisher Scientific	A/0400/PB17	
Glass cover slips, No.1.5	Scientific Laboratory Supplies	22X22-SGJ3015. 22X50-SGJ3030	
Glass needle puller	Narishige	Narishige PC -10	
Glass pull needles	Drummond Scientific	3-000-203-G/X	
Human chronic gonadotropin (HCG)	Intervet		
Isopropanol	Fisher Scientific	P/7500/PB17	
Lithium chloride (LiCl)	Sigma	L-7026	
LSM710 and Zen software (2008-2010)	Carl Zeiss		
Matlab software	Mathworks		http://uk.mathworks.com/
Molecular grade water	Fisher Scientific	BP 2819-10	
Nail varnish	Boots	Bar code 3600530 373048	
Spectrophotometer	Lab.tech International	ND-1000 / ND8000	
Petri dish (55 mm)	VWR International	391-0865	
Phenol-chloroform	Sigma	P3803	

Photoshop software	Adobe		http://www.photoshop.com/products
High fidelity DNA polymerase and buffers	Biolabs	M0530S Buffer - M0531S	
Potassium chloride (KCl)	Fisher Scientific	P/4280/53	
PVC insulation tape	Onecall	SH5006MPK	
Gel extraction kit	Qiagen	S28704	
Restriction enzymes buffers	Roche	SuRE/CUT Buffer Set 11082 035 001	
RNAse-free DNase	Promega	ME10A	
Steel back single edge blades	Personna	66-0403-0000	
Sodium chloride (NaCl)	Fisher Scientific	27810.364	
SP6 transcription kit	Ambion	AM1330	
Glass slides	Thermo Fisher	SHE 2505	
Tris base	Invitrogen	15504-020	
Tungsten needles			homemade
Zen lite software	Carl Zeiss		Free download http://www.zeiss.co.uk/microscopy/en_gb/downloads/zen.html