

Materials List for:

Plastic Embedding and Sectioning of *Xenopus laevis* Embryos

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Materials

Name	Type	Company	Catalog Number	Comments
PBS	Buffer			1L recipe: 8.0g NaCl, 0.2g KCl, 2.68g Na ₂ HPO ₄ . pH is supposed to be 7.4. Adjust the volume to 1L. Autoclave.
PBT	Buffer			Add 0.5ml of Triton X-100 and 1.0g of BSA (Molecular Biology grade, fraction V is good [$>99\%$], but don't use crude 97% Albumin) to 500ml of autoclaved PBS. Filtrate through 0.2mm filter cup. Store it in 4°C.
Dent's fixative	Reagent			Mix 40ml of methanol and 10ml of DMSO. Keep it in – 20°C.
3.7% FA+PBS	Reagent			Mix 37% formaldehyde and PBS at 1:9 ratios. Make it fresh at each time and discard the left over.
Biotinylated Anti-Mouse IgG (H+L), made in goat	Ab	Vector Laboratories	BA-9200	
Biotinylated Anti-Rabbit IgG (H+L), made in goat	Ab	Vector Laboratories	BA-1000	
IG'S HUADS BIOTIN GTXRBT	Ab	Invitrogen	ALI3409	BioSource™
IgG (g), Goat Anti-Mouse	Ab	Invitrogen	 M30115	CALTAG™
Fluorescent streptavidin kit	Reagent	Vector Laboratories	SA-1200	Contains streptavidin labeled with three different fluorophores (FITC, Texas

				Red and AMCA) suitable for this procedure.
20% goat serum/PBT	Buffer			This will be used as a blocking solution.
Small paintbrush	Tool			
Dull-tip dissection needle	Tool			
Kulzer Technovit 7100 GMA , 3040	Reagent		7100 GMA , 3040	glycol methacrylate
Kulzer Tungsten Histoknife H	Tool	Energy Beam Sciences	H1310	
75% MeOH/H ₂ O	Buffer			
50% MeOH/PBS	Buffer			
25% MeOH/PBS	Buffer			
30% EtOH/H ₂ O	Buffer			
50% EtOH/H ₂ O	Buffer			
75% EtOH/H ₂ O	Buffer			
100% EtOH	Buffer			
Small glass scintillation vials	Tool	Fisher Scientific	03-339-25B	
0.5ml Thin-wall PCR tubes	Tool	Molecular BioProducts	3430	
Press-to-Seal Silicone Rubber Insulators	Tool	Grace Bio-Lab Inc.	JTR1L-2.5	32mm L x 19mm W, 2.5mm D
Thin razor blade	Tool			
1.5% Agarose in PBS				
Primary antibody against your antigen or epitope tags: Make an appropriate dilution in PBT. Biotin-conjugated secondary antibody: various vendors sell biotin-conjugated antibodies.				