

Materials List for:

Functional Manipulation of Maternal Gene Products Using *In Vitro* Oocyte Maturation in Zebrafish

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Materials

Name	Company	Catalog Number	Comments
Zebrafish mating boxes	Aqua Schwarz	SpawningBox1	
NaCl	Sigma	S5886	
KCl	Sigma	P5405	
Na ₂ HPO ₄	Sigma	S3264	
KH ₂ PO ₄	Sigma	P9791	
CaCl ₂	Sigma	C7902	
MgSO ₄ ·7H ₂ O	Sigma	63138	
NaHCO ₂	Sigma	S5761	
Tricaine	Western Chemical	Tricaine-D (MS 222)	FDA approved (ANADA 200-226)
Tris base	Sigma	77-86-1	to prepare 1 M Tris pH 9.0
HCl	Sigma	920-1	to prepare 1 M Tris pH 9.0
Fish net (fine mesh) (4 - 5 in)	PennPlax	(ThatFishThatPlace # 212370)	available in ThatFishThatPlace
Plastic spoon			available in most standard stores
Dissecting scissors	Fine Science Tools	14091-09	
Dissecting forceps	Dumont	SS	available from Fine Science Tools
Dissecting stereoscope (with transmitted light source)	Nikon	SMZ645	or equivalent
Reflective light source (LED arms)	Fostec	KL1600 LED	or equivalent
Petri plates 10 cm diameter			any maker
Eppendorf tubes 1.5 mL			any maker
Ice bucket			any maker
Narrow spatula	Fisher	14-374	
Depression glass plate	Corning Inc	722085 (Fisher cat. No 13-748B)	available from Fisher Scientific
Paper towels			any maker
Kimwipes	Kimberly-Clark	06-666-11	available from Fisher Scientific
Timer stop watch			any maker
Wash bottle	Thermo Scientific	24020500	available from Fisher Scientific
beakers, 250 mL (2)	Corning Inc.	1000250	available from Fisher Scientific
Leibovitz'z L-15 medium	Thermofisher	11415064	
NaOH	Sigma	221465	for pH'ing
BSA	Sigma	A2058	

17 α -20 β -dihydroxy-4-pregnen-3-one (DHP)	Sigma	P6285	
gentamicin	Sigma	G1272	
Injection Apparatus	Eppendorf	FemtoJet	or equivalent
Capillary Tubing for injection needles	FHC	30-30-1	or equivalent, Borosil 1.0 mm OD x 0.5 mm ID with fiber, 100 mm
Needle puller	Sutter Instruments	Model P-87	any maker
Micropipetor (1 - 20 μ L range) with tips			any maker
Micropipetor (20 - 200 μ L range) with tips			any maker
Micropipetor (100 - 1000 μ L range) with tips			any maker
Conical tubes 15 mL			any maker
Conical tubes 50 mL			any maker
plastic pipette 10 mL with bulb			any maker
plastic pipette 20 mL with bulb			any maker
Microscope stage Calibration Slide 0.01 mm	AmScope	MR095	or equivalent
Reagents for fish water:			
Instant Ocean Salt	Drs. Foster & Smith	CD-116528	
Sodium bicarbonate (cell culture tested)	Sigma	S5761-1KG	
Reagents for E3 medium:			
NaCl	Sigma	S5886-1KG	
KCl	Sigma	P5405-500G	
CaCl ₂ , dihydrate	Sigma	C7902-500G	
MgSO ₄ , heptahydrate	Sigma	63138-250G	
Methylene Blue	Sigma	M9140-25G	
Fish Food:			
Frozen brine shrimp	Brine Shrimp Direct	FBSFKG50	
Tetramin Flakes	Drs. Foster & Smith	16623	