

Materials List for

In Vivo Visualization of Calcium Transients during Fertilization and Early Development in *C. elegans*

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Materials

Name	Company	Catalog Number	Comments
Agar	Fisher Scientific	DF0140-07-4	2 kg; Powder dissolves easier than flakes
Agarose	MidSci	BE-A125	500 g
Alcohol lamp	Fisher Scientific	S13475	Use with 95% ethanol
Ammonium chloride (NH ₄ Cl)	Fisher Scientific	AAA1500030	250 g
Ampicillin	Fisher Scientific	BP1760-5	5 g
AMSCO 400 Series Small Steam Sterilizer	Steris Healthcare	N/A	
Bacto-peptone	Fisher Scientific	BP1420-500	500 g
Bacto-tryptone	Fisher Scientific	DF0123-17-3	500 g
Calcium chloride (CaCl ₂)	Fisher Scientific	C69-500	500 g
Cholesterol	Thermo Scientific	A11470.18	50 g
Dragonfly 200 spinning disk confocal	Oxford Instruments Andor	N/A	Used with Leica microscope
Fisherbrand Superfrost Cytogenics Microscope Slides	Fisher Scientific	22-035-900	144 slides per pack
Flat Nose Pliers, Smooth Jaw	Home Depot	305530604	Ensure pliers are smooth jaw
Isopropyl β- d-1-thiogalactopyranoside (IPTG)	Fisher Scientific	BP1755-10	10 g; dioxane-free
Laboratory tape	Fisher Scientific	15-901-10R	0.5 inch tape is used to tape microscope slides
Levamisole	Fisher Scientific	AC187870100	10 g
Magnesium sulfate (MgSO ₄)	Fisher Scientific	M63-500	500 g
Microscope cover glass	Fisher Scientific	12541016	1 oz pack
Nikon ECLIPSE Ti2 laser scanning confocal	Nikon	N/A	
Nikon NIS Elements software	Nikon	N/A	Confocal
OP50 Escherichia coli	Caenorhabditis Genetics Center (CGC)	OP50	
Platinum Wire	TriTech	PT-9010	

Potassium phosphate dibasic (K ₂ HPO ₄)	Fisher Scientific	P288-500	500 g
Potassium phosphate monobasic (KH ₂ PO ₄)	Fisher Scientific	AA1159436	500 g
Sodium chloride (NaCl)	Fisher Scientific	S271-500	500 g
Sodium phosphate dibasic heptahydrate (Na ₂ HPO ₄)	Fisher Scientific	S471-3	3 kg
Stereo microscope	Leica	KL300 LED	
Sterile Petri dish (35 mm x 10 mm)	CellTreat	229638	960 Petri dishes per case
Sterile Petri dish (60 mm x 15 mm)	CellTreat	229665	500 Petri dishes per case
Strain EAG16 <i>spn-4p::jGCaMP7s::pie-1u</i>	Caenorhabditis Genetics Center (CGC)	EAG16	Created by Kim Guisbert Lab
Strain EAG25 <i>spn-4p::jGCaMP7s::pie-1u; ujls113 II.</i>	Caenorhabditis Genetics Center (CGC)	EAG25	Created by Kim Guisbert Lab
Strain EAG28 <i>spn-4p::jGCaMP7s::pie-1u; unc-119(ed3) III; ItIs44 V.</i>	Caenorhabditis Genetics Center (CGC)	EAG28	Created by Kim Guisbert Lab
Strain JIM113 <i>ujls113 II</i> <i>[pie-1p::mCherry::H2B::pie-1 3'UTR + nhr-2p::his-24::mCherry::let-858 3'UTR + unc-119(+)]</i>	Caenorhabditis Genetics Center (CGC)	JIM113	Created by E. Preston - Murray Lab
Strain OD70 <i>unc-119(ed3) III; ItIs44 V</i> <i>[pie-1p::mCherry::PH(PLC1delta1) + unc-119(+)]</i>	Caenorhabditis Genetics Center (CGC)	OD70	Created by Audhya/Oegema - Greenstein Lab
Tritech Worm Pick Handle	TriTech	TWPH1	
Yeast extract	IBI Scientific	IB49160	500 g