

Materials List for:

Cell Cycle Analysis in the *C. elegans* Germline with the Thymidine Analog EdU

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Materials

Name	Company	Catalog Number	Comments
<i>E. coli</i> MG1693	Coli Genetic Stock Center	6411	grows fine in standard unsupplemented LB
<i>E. coli</i> OP50	Caenorhabditis Genetics Center	OP50	
Click-iT EdU Alexa Fluor 488 Imaging Kit	Thermo Fisher Scientific	C10337	
5-Ethynyl-2'-deoxyuridine	Sigma	900584-50MG	or use EdU provided in kit
Glucose	Sigma	D9434-500G	D-(+)-Dextrose
Thiamine (Vitamin B1)	Sigma	T4625-5G	Reagent Grade
Thymidine	Sigma	T1895-1G	BioReagent
Magnesium sulfate heptahydrate	Sigma	M1880-1KG	MgSO ₄ , Reagent Grade
Sodium Phosphate, dibasic, anhydrous	Fisher	BP332-500G	Na ₂ HPO ₄
Potassium Phosphate, monobasic	Sigma	P5379-500G	KH ₂ PO ₄
Ammonium Chloride	Sigma	A4514-500G	NH ₄ Cl, Reagent Plus
Bacteriological Agar	US Biological	C13071058	
Calcium Chloride dihydrate	Sigma	C3881-500G	CaCl
LB Broth (Miller)	Sigma	L3522-1KG	Used at 25g/L
Levamisole	Sigma	L9756-5G	0.241g/10ml
Phosphate buffered saline	Calbiochem Omnipur	6506	homemade PBS works just as well
Tween-20	Sigma	P1379-500ML	
16% Paraformaldehyde, EM-grade ampules	Electron Microscopy Sciences	15710	10ml ampules
100% methanol	Thermo Fisher Scientific	A454-1L	Gold-label methanol is critical for proper morphology with certain antibodies
Goat Serum	Gibco	16210-072	Lot 1671330
rabbit-anti-WAPL-1	Novus biologicals	49300002	Lot G3048-179A02, used at 1:2000
mouse-anti-pH3 clone 3H10	Millipore	05-806	Lot#2680533, used at 1:500
goat-anti-rabbit IgG-conjugated Alexa Fluor 594	Invitrogen	A11012	Lot 1256147, used at 1:400
goat-anti-mouse IgG-conjugated Alexa Fluor 647	Invitrogen	A21236	Lot 1511347, used at 1:400
Vectashield antifade mounting medium containing 4',6-Diamidino-2-Phenylindole Dihydrochloride (DAPI)	Vector Laboratories	H-1200	mounting medium without DAPI can be used instead, following a separate DAPI incubation
nail polish	Wet n Wild	DTC450B	any clear nail polish should work
S-medium	various		see wormbook.org for protocol

M9 buffer	various		see wormbook.org for protocol
M9 agar	various		same recipe as M9 buffer, but add 1.7% agar
Nematode Growth Medium	various		see wormbook.org for protocol
dissecting watch glass	Carolina Biological	42300	
Parafilm laboratory film	Pechiney Plastic Packaging	PM-996	4 inch wide laboratory film
petri dishes			60 mm diameter
Long glass Pasteur pipettes			
1ml centrifuge tubes	MidSci Avant	2926	
Tips			
Serological pipettes			
500 mL Erlenmyer flask			
Aluminum foil			
25G 5/8" needles	BD PrecisionGlide	305122	
5ml glass centrifuge tube	Pyrex		
Borosilicate glass tubes 1ml			
glass slides			
no 1 coverslips 22 x 40 mm			no 1.5 may work, also
37 °C Shaker incubator			
Tabletop Centrifuge			
Clinical Centrifuge	IEC	428	with 6 swinging bucket rotor
Mini Centrifuge			
20 °C incubator			
4 °C refrigerator			
-20 °C freezer			
Observer Z1 microscope	Zeiss		
Plan Apo 63X 1.4 oil-immersion objective lens	Zeiss		
Ultraview Vox spinning disc confocal system	PerkinElmer		Nikon spinning disc confocal system works very well, also, as described here: http://wucci.wustl.edu/Facilities/Light-Microscopy