

Materials List for:

Prostaglandin Extraction and Analysis in *Caenorhabditis elegans*

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Materials

Name	Company	Catalog Number	Comments
REAGENTS			
X-large (16 cm) plates	Fisher Scientific	0875714	
<i>E. coli</i> strain NA22	Caenorhabditis Genetics Center (CGC)	NA22	http://www.cgc.cbs.umn.edu
Acetone, 99.5%	Fisher Scientific	A928-4	
Butylated Hydroxytoluene	MP Biomedicals	101162	
Hexane, HPLC grade	Fisher Scientific	H302-1	
Formic acid, 99%	Acros	AC27048-0010	Available through Fisher Scientific
Chloroform, HPLC grade	Acros	AC26832-0010	Available through Fisher Scientific
PGF _{2α} -d4	Cayman Chemicals	316010	Cayman has a wide array of standards available for purchase
Sterile screw cap self-standing 5 ml tube	Fisher Scientific	14-222-651	For use with Bullet Blender
0.5 mm zirconium oxide beads	Next >>> Advance	ZrOB05	
10 ml glass conical heavy-duty graduated centrifuge tubes	Kimble Kimax	45200-10	Available through Fisher Scientific
15 ml glass conical tubes	Corning Pyrex	8082-15	Available through Fisher Scientific
Sigmacote (Siliconizing reagent)	Sigma-Aldrich	SL2-100ML	
Teflon lined capped 1/2 Dram glass vial	Fisher Scientific	V1235C-TFE	
EQUIPMENT			
CentraSL2 Clinical Centrifuge	Thomas Scientific	2517N92-TS	
Bullet Blender 5 blue homogenizer	Next >>> Advance	BBY5MB	A 40 ml Dounce homogenizer can be used as an alternative
Synergi 4 μm Hydro-RP 80 Å LC Column 250 x 2.0 mm	Phenomenex	00G-4375-B0	HPLC Column
SecurityGuard Cartridges AQ C18 4 x 2.0 mm	Phenomenex	AJ0-7510	
SecurityGuard Guard Cartridges Kit	Phenomenex	KJ0-4282	
Shimadzu Prominence HPLC with refrigerated auto sampler	Shimadzu Scientific Instruments, Inc.		Any standard HPLC system coupled to a triple quadrupole mass spectrometer should be sufficient
API 4000 triple quadrupole mass spectrometer	Applied Biosystems/MDS SCIEX		
M9 buffer recipe (4 liter)			
12 g		KH ₂ PO ₄	

24 g	Na_2HPO_4
20 g	NaCl
Up to 4 liter	Deionized water
Aliquot to eight 1 liter bottles. Autoclave and cool.	
0.5 ml/bottle	1 M MgSO_4