

Materials List for:

A Screenable *In Vivo* Assay for Mitochondrial Modulators Using Transgenic Bioluminescent *Caenorhabditis elegans*

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Materials

Name	Company	Catalog Number	Comments
Orion II Microplate Luminometer	Berthold Detection Systems		with injector and the Simplicity 4.2 Software; transfer data to Excel at the end of plate measurement
FLx800 fluorimeter	Biotek		with Gen5 Software; transfer data to Excel at the end of plate measurement
Ks 130 basic shaking platform	Ika	#0002980000	
Innova 4349	New Brunswick Scientific		Refrigerated incubator shaker
Eppendorf centrifuge 5804R	Eppendorf		with eppendorf rotor A-4-44 (for 50/15 ml tubes)
Stripette, Costar	Corning	#4489	Serological pipette
Cellstar 50 ml tubes	Greiner bio-one	#227661	
Cellstar 15 ml tubes	Greiner bio-one	#188261	
Cellstar 60 mm tissue culture plates	Greiner bio-one	#628160	
Superfrost Microscope slides	VWR	#631-0909	
Sterile spatula	Corning	#3007; #3004	for weighing out chemicals
0.22 mM Millex GP filters	Millipore	#SLGP033RS	
Axygen eppendorf tubes 1.5 ml	Fisher Scientific	#MCT-150-R	
Corning 96 well assay plate	VWR	#3603	Black plate clear bottom with lid
Nunc 96 well assay plate	Fisher Scientific	#236105	White plate with lid
Reservoir reagent 60 ml	Thermo Scientific Finnpiptette	#9510027	used as trough for nematodes in protocol section 4.4.1
Storage box/damp chamber	Roche Diagnostics	#10 800 058 001	174 x 101 x 56.6 mm, used as a damp chamber with wet paper towels; 2x 96-well plates with lids can fit into one, the lower sitting on top of a microplate lid
Bleach: Sodium hypochlorite solution 4-4.99% Chlorine content	Sigma Aldrich	#239305	Store in aliquots at 4 °C, seal with Parafilm to prevent loss of chlorine and cover in foil
D-Luciferin, potassium salt	Biotium Inc	# 10101-2	Molecular Probes can also be used as supplier; prepare a 20 mM stock in ddH ₂ O, keep at -20 °C in aliquots

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Tween 20	Sigma Aldrich	# P9416	
DMSO	CalBiochem	#317275	Purity 99.99%
Triton X100	Alfa Aesar	#A16046	Dilute to 10% in ddH ₂ O

Nystatin	CalBiochem	#475914	
<i>C. elegans</i> bioluminescent strains	Author's own laboratory	PE254, PE255	contain integrated arrays <i>fels4</i> and <i>fels5</i> [<i>P_{sur-5}::luc+::gfp</i> ; <i>rol-6(su1006)</i>] respectively on chromosome V and X; select for homogeneous and strong expression of <i>luc::GFP</i> by fluorescence microscopy (e.g. pick 15 worms) every now and then.
<i>E. coli</i> OP50	CGC		
General chemicals	Sigma Aldrich/Fisher Scientific		