

Comparative Analysis of Experimental Methods to Quantify Animal Activity in *Caenorhabditis elegans* Models of Mitochondrial Disease

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Materials

Name	Company	Catalog Number	Comments
<i>C. elegans</i> wild isolate	Caenorhabditis Genetics Center (CGC)	N2 Bristol	
Camera	Olympus	DP73	
gas-1(fc-21)	CGC	CW152	
Microscope slides	ThermoFisher	4951PLUS	
Nematode Growth Medium (NGM)	Research Products International Corp.	N81800-1000.0	
OP50 <i>Escherichia coli</i>	CGC		Uracil auxotroph <i>E. coli</i> strain
Petri dishes (60 mm)	VWR international	25373-085	
S. Basal	VWR 5.85 g NaCl, 1 g K ₂ HPO ₄ , 6 g KH ₂ PO ₄ , and 5 mg cholesterol, in 1 l H ₂ O	VWR 101175-162, 103467-156, EM1.09828.1000, 97061-660	
Scanner	EPSON	V800	
Stereomicroscope	Olympus	MVX10 microscope	
96-well flat bottom	VWR international	29442-056	
WormScan software	Mathew et al. ⁴⁵	S1 Standalone Java platform	Software for automation of difference image of scanned plates
ZebraLab software	ViewPoint		Software for automated quantization and tracking of zebrafish behavior, designed by ViewPoint (http://www.viewpoint.fr/en/p/software/zebralab-zebrafish-behavior-screening) and here applied to <i>C. elegans</i> . This system is applicable for high-throughput behavioral analysis