

Materials List for:

Automated Behavioral Analysis of Large *C. elegans* Populations Using a Wide Field-of-view Tracking Platform

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URL: <https://www.jove.com/video/58643>

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Materials

Name	Company	Catalog Number	Comments
Consumable reagents			
monobasic potassium phosphate	Sigma Aldrich	P0662	
dibasic sodium phosphate	Sigma Aldrich	S3264	
sodium chloride	Sigma Aldrich	13422	
magnesium sulphate	Sigma Aldrich	M7506	
Agar	Sigma Aldrich	A1296	
Difco casein digest	Scientific Laboratory Supplies	211610	
calcium chloride dihydrate	Sigma Aldrich	C3881	
cholesterol	Acros	110190250	
absolute ethanol	Vwr	20821.33	
5-Fluoro-2'-deoxyuridine 98%	Alfa Aesar	L16497.ME	
LB medium capsules	MP biomedicals	3002-031	
13% sodium hypochlorite	Acros Organics	AC219255000	
Sodium hydroxide	Fisher Chemical	S/4880/53	
Name	Company	Catalog Number	Comments
Strains			
<i>E. coli</i> strain OP50	Supplied by CGC	Op50	E coli strain
<i>C. elegans</i> strain wild type	Supplied by CGC	N2	<i>C. elegans</i> strain
<i>C. elegans</i> strain AD	Supplied by CGC	GMC101	<i>C. elegans</i> strain
<i>C. elegans</i> strain PD	Supplied by CGC	NL5901	<i>C. elegans</i> strain
<i>C. elegans</i> strain ALS	Supplied by CGC	AM725	<i>C. elegans</i> strain
<i>C. elegans</i> strain Tau	Supplied by CGC	BR5485	<i>C. elegans</i> strain
Name	Company	Catalog Number	Comments
Equipment			
Tactrol 2 Autoclave	Priorclave		
9 cm sterile Petri dishes	Fisher Scientific	11309283	
2 L erlenmeyer flasks	Scientific Laboratory Supplies	FLA4036	
Nalgene 1 L Centrifuge pots	Fisher Scientific	3120-1000	
RC5C plus floor mounted centrifuge	Sorvall	9900884	
15 mL centrifuge tubes	Fisher Scientific	05-539-12	
Heraeus Multifuge X3R	ThermoFisher scientific	75004515	
Inoculating Spreaders	Fisher Scientific	11821741	

M4 multipette	Eppendorf	4982000012	
P1000 pipette	Eppendorf Research Plus		
P200 pipette	Eppendorf Research Plus	3123000055	
P10 pipette	Eppendorf Research Plus	3123000020	
1,000 µL low retention tips	Sarstedt		
300 µL low retention tips	Sarstedt	70.765.105	
10 µL low retention tips	Sarstedt	70.1130.105	
pipeteboy 2	VWR	612-0927	
50 mL serological pipette	Appleton Woods	CC117	
25 mL serological pipette	Appleton Woods	CC216	
10 mL serological pipette	Appleton Woods	CC214	
glass pipette 270 mm	Fisherbrand	FB50255	Camera for videos recording
pulsin	Polyplus Transfection	501-04	Transduction reagent
Multitron Standard shaking incubator	Infors HT	INFO28573	
air duster	Office Depot	1511631	
Name	Company	Catalog Number	Comments
WF-NTP Tracker Components and Image Capture Software			
8" by 8" Backlight	Edmond Optics	88-508	Tracker component
16 mm FL high resolution lens for 1" sensor	Edmond Optics	86-571	Tracker component
6 Mpx camera	Edmond Optics	33540	Tracker component
FlyCapture Software	PointGrey	SDK v2.12	Image capture software
WF-NTP Software	Cambridge Enterprise	v1.0	Image analysis software
Office Package	Microsoft	Office 365	Statistical analysis software