

Materials List for

Long-Term Culture and Monitoring of Isolated *Caenorhabditis elegans* on Solid Media in Multi-Well Devices

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Citation

Gardea, E.A., DeNicola, D., Freitas, S., Peterson, W., Dang, H., Shuck, K., Fang-Yen, C., Sutphin, G.L. Long-Term Culture and Monitoring of Isolated *Caenorhabditis elegans* on Solid Media in Multi-Well Devices. *J. Vis. Exp.* (190), e64681, doi:10.3791/64681 (2022).

Date Published

December 9, 2022

DOI

10.3791/64681

URL

jove.com/video/64681

Materials

Name	Company	Catalog Number	Comments
2.5 lb weight	CAP Barbell	RP-002.5	
Acrylic sheets (6 in x 4 in x 3/8 in)	Falken Design	ACRYLIC-CL-3-8/1224	Large sheet cut to smaller sizes
Ampicillin sodium salt	Sigma-Aldrich	A9518	
Autoclavable squeeze bottle	Nalgene	2405-0500	
Bacto agar	BD Difco	214030	
Bacto peptone	Thermo Scientific	211677	
Basin, 25 mL	VWR	89094-664	Disposable pipette basin
Cabinet style vacuum desiccator	SP Bel-Art	F42400-4001	Do not need to use dessicant, only using as a vacuum chamber.
CaCl ₂	Acros Organics	349615000	
<i>Caenorhabditis elegans</i> N2	Caenorhabditis Genetics Center (CGC)	N2	Wildtype strain
Carbenicillin	GoldBio	C-103-25	
Centrifuge	Beckman	360902	
Cholesterol	ICN Biomedicals Inc	101380	
Compressed oxygen tank	Airgas	UN1072	
CuSO ₄	Fisher Chemical	C493-500	
Dry bead bath incubator	Fisher Scientific	11-718-2	
<i>Escherichia coli</i> OP50	Caenorhabditis Genetics Center (CGC)	OP50	Standard laboratory food for <i>C. elegans</i>
Ethanol	Millipore	ex0276-4	
Floxuridine	Research Products International	F10705-1.0	
Hybridization oven	Techne	731-0177	Used to cure PDMS mixture, any similar oven will suffice

Incubators	Shel Lab	2020	20 °C incubator for maintaining worm strains and 37 °C incubator to grow bacteria
Isopropyl β-D-1-thiogalactopyranoside (IPTG)	GoldBio	I2481C100	
K ₂ HPO ₄	Fisher Chemical	P288-500	
KH ₂ PO ₄	Fisher Chemical	P286-1	
Kimwipes	KimTech	34155	Task wipes
LB Broth, Lennox	BD Difco	240230	
Low melt agarose	Research Products International	A20070-250.0	
MgSO ₄	Fisher Chemical	M-8900	
Microwave	Sharp	R-530DK	
Multichannel repeat pipette, 20–200 μL LTS EDP3	Rainin	17013800	The exact model used is no longer sold, a similar model's catalog number has been provided
NaCl	Fisher Bioreagents	BP358-1	
Nunc OmniTray	Thermo Scientific	264728	Clear polystyrene trays
Parafilm M	Fisher Scientific	13-374-10	Double-wide (4 in)
Petri plate, 100 mM	VWR	25384-342	
Petri plate, 60 mM	Fisher Scientific	FB0875713A	
Plasma cleaner	Plasma Etch, Inc.	PE-50	
PLATINUM vacuum pump	JB Industries	DV-142N	
PolyJet 3D printer	Stratasys	Objet500 Connex3	PolyJet 3D printing services provided by ProtoCAM (Material: Vero Rigid; Finish: Matte; Color: Gloss; Resolution: X-axis: 600 dpi, Y-axis: 600 dpi, Z-axis: 1600 dpi)
Shaking incubator	Lab-Line	3526CC	
smartSpatula	LevGo, Inc.	17211	Disposable spatula
Superabsorbent polymer (AgSAP Type S)	M2 Polymer Technologies	Type S	Referred to in main text as "water crystals"
SYLGARD 184 Silicone Elastomer base	The Dow Chemical Company	2065622	
SYLGARD 184 Silicone Elastomer curing agent	The Dow Chemical Company	2085925	
Syringe filter (0.22 μm)	Nest Scientific USA Inc.	380111	
Syringe, 10 mL	Fisher Scientific	14955453	
TWEEN 20	Thermo Scientific	J20605-AP	Detergent
Vacuum pump oil	VWR	54996-082	
VeroBlackPlus	Stratasys	RGD875	Rigid 3D printing filament
Weigh boat	Thermo Scientific	WB30304	Large enough for PDMS mixture volume