

Materials List for

High-Throughput Screening of Microbial Isolates with Impact on *Caenorhabditis elegans* Health

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jove.com/video/63860

Materials

Name	Company	Catalog Number	Comments
10 cm diameter plates (Non-vented)	Fisher Scientific	10720052	Venting is not necessary for bacterial cultures
15 cm diameter plates (Vented)	Fisher Scientific	168381	
384-well black, transparent flat bottom plates	Corning	3712 or 3762	Not essential to be sterile for fast stress assays
6 cm diameter plates (Vented)	Fisher Scientific	150288	Venting is necessary for worm cultures to avoid hypoxia
96-well transparent plates (Biolite)	Thermo	130188	
Agar (<4% ash)	Sigma-Aldrich	102218041	Good quality agar is important for the structural integrity of the culture media, to avoid worm burrowing
Agarose	Fisher Scientific	BP1356	
Avanti Centrifuge J-26 XP	Beckman coulter		
Bleach	Honeywell	425044	
Calcium chloride	Sigma-Aldrich	C5080	
Centrifuge 5415 R	Eppendorf		
Centrifuge 5810 R	Eppendorf		
Cholesterol	Sigma-Aldrich	C8667	
LB agar	Difco	240110	
LB broth	Invitrogen	12795084	
LoBind tips	VWR	732-1488	Lo-bind reduce worm loss during transfers
LoBind tubes	Eppendorf	22431081	
Magnesium sulfate	Fisher Scientific	M/1100/53	
Plate reader- infinite M nano+	Tecan		Monochromator setup enables fluorescence tuning but adequate filter-based setups may be used
Plate reader- Spark	Tecan		
Potassium phosphate monobasic	Honeywell	P0662	

Sodium chloride	Sigma-Aldrich	S/3160/63	
Stereomicroscope setup with transillumination base	Leica	MZ6, or M80	Magnification from 0.6-0.8x up to 40-60x is necessary, as is a good quality transillumination base with a deformable, titable or slidable mirror to adjust contrast
t-BHP (<i>tert</i> -Butyl hydroperoxide)	Sigma-Aldrich	458139	
Transparent adhesive seals Nunc	Fisher Scientific	101706871	It is important that it is transparent and that it can tolerate the temperatures involved in the assays.
Tryptophan	Sigma-Aldrich	1278-7099	
Yeast extract	Fisher Scientific	BP1422	