

A Smartphone-Based Imaging Method for *C. elegans* Lawn Avoidance Assay

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jove.com/video/65197

Materials

Name	Company	Catalog Number	Comments
35 mm Petri dish	SPL	#10035	
Bacto agar	BD	#214010	
Bacto Peptone	BD	#211677	
CaCl ₂	DAEJUNG	2507-1400	
Cholesterol	BioBasic	CD0122	
Dipotassium hydrogen phosphate (K ₂ HPO ₄)	JUNSEI	84120-0350	
Glycerol	BioBasic	GB0232	
King B Broth	MB cell	MB-K0827	
LED light box multi-pad	Artmate	N/A	This is a USB powered, LED light pad for tracing and drawing purposes. Artmate is a Korean brand, but searching for "LED light box for tracing" in any search engine should yield numerous options from other brands. Overall dimension is around 9" x 12" (A4 size). For example, from amazon US: https://www.amazon.com/LITENERGY-Ultra-Thin-Adjustable-Streaming-Stenciling/dp/B07H7FLJX1/ref=sr_1_5?crid=YMYU0VYY226R&keywords=LED%2Blight%2Bbox&qid=1674183224&srefix=led%2Blight%2Bbo%2Caps%2C270&sr=8-5&th=1
MgSO ₄	DAEJUNG	5514-4400	
Plastic paper sleeve (clear)	Smead	#85753	Any clear plastic sheet with a bit of stiffness can be used as stage. For example, from Amazon US: https://www.amazon.com/Smead-Organized-Translucent-Project-85753/dp/B07HJTRCT7/ref=psdc_1069554_t3_B09J48GXQ

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Potassium dihydrogen phosphate (KH ₂ PO ₄)	JUNSEI	84185-0350	
Power strip			To accommodate 3 phones and one LED box, you need at least 4 outlets.
Smartphone	N/A	N/A	Minimum requirement: 12MP wide camera, 1080p HD video recording at 30fps
Sodium chloride(NaCl)	DAEJUNG	#7548-4100	
Sodium phosphate dibasic anhydrous (Na ₂ HPO ₄)	YAKURI	#31727	