

Materials List for

# Assessing the Age-Specific Phagocytic Ability of Adult *Drosophila melanogaster* Hemocytes using an In Vivo Phagocytosis Assay

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jove.com/video/60983

## Materials

Name	Company	Catalog Number	Comments
0.10 mm Insect pins	Fine Science Tools	26002-10	Here: pins are cut in half, and the sharp end is used
1 mL sterile syringes	Becton Dickinson	309602	Filled with mineral oil to load needle
15% Fetal Bovine Serum (FBS)	Gibco	16000-044	for dissection media
16 % Paraformaldehyde	Electron Microscopy Sciences	15710	EM-grade, 4% working, diluted in 1X PBS
1x Phosphate buffered saline (PBS)	Sigma	P3813	
3 mL Transfer Pipet	Falcon	357524	
3.5" Glass Capillaries	Drummond	3-000-203-G/X	1.14mm O.D X 3.5" length X 0.53" I.D
35x10 mm Petri dishes	Becton Dickinson	351008	Used as dissection plate, filled half way with Sylgard
6x penicillin/streptomycin	Life Technologies	15140-122	for dissection media
70% Glycerol	Sigma	G9012	
Analog Vortex mixer	VWR	58816-121	
Biological point forceps, Dumont No. 5	Fine Science Tools	11295-10	
DAPI (4',6-diamidino-2-phenylindole)	Life Technologies	D1306	Diluted 1:1000 in 1x PBST
<i>Drosophila</i> strain			w[*]; P{w[+mC]=He-GAL4.Z}85, P{w[+mC]=UAS-GFP.nls}8
<i>E. coli</i> (K-12 strain) BioParticles™, Alexa Fluor™ 594 conjugate	Life Technologies	E23370	
Glass slides	Premiere	D17026102	
Live cell imaging solution	Life Technologies	A14291DJ	preferred buffer for particle preparation and dilutions
Mineral oil	Mpbio	194836	
Nanoject II automatic nanoliter injector	Drummond	3-000-204	

Narrow Polystyrene Super Bulk Drosophila Vials	Genesee	32-116SB	Size: 25 X 95 mm
Nutating Mixer	Fisher Scientific	88-861-043	Speed used: 20 rpm
pHrodo™ Red E. coli BioParticles™ Conjugate for Phagocytosis	Life Technologies	P35361	
Schneider's Drosophila cell culture media (1x)	Gibco	21720-024	Dissection media, combine: Schneiders, FBS, and pen/strep; filter sterilize
Sodium azide	Sigma-Aldrich	S2002	2mM (or 20%) working
Spring scissors	Fine Science Tools	15000-00	
Sylgard 184 Silicone elastomer	Electron Microscopy Sciences	24236-10	Prepare according to provided protocol
Tween 20	Sigma	P1379	For PBS + 0.1% tween
Vertical Pipette Puller Model 700C	David Kopf Instruments	812368	Heater: 55? Solenoid: 45
Zeiss Axiomager.Z1 fluorescent microscope	Zeiss		Here: Apotome structural interference system with Zeiss Zen imaging software