

Materials List for:

Extraction of Hemocytes from *Drosophila melanogaster* Larvae for Microbial Infection and Analysis

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URL: <https://www.jove.com/video/57077>

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Materials

Name	Company	Catalog Number	Comments
Schneider's <i>Drosophila</i> Medium	Thermo Fisher Scientific (Gibco)	21720024	1.1.1), 2.1.2)
Fetal Bovine Serum	GE Healthcare Life Sciences (HyClone)	SH30070.03HI	1.1.1), 2.1.2)
Filter (0.22 µL)	RESTEK	26158	1.1.1)
Strainer (100 µm)	Greiner bio-one	542000	1.2.1), 2)
Stereo microscope	Amscope	SM-1BSZ-L6W	1.2), 2)
Glass capillary	Fisher Scientific	21-171-4	1.1), 1.2), 2)
Capillary puller	Narishige International USA, Inc.	PC-10	1.1.3)
Mineral oil	Snow River Products		1.1.4)
Nanoinjector	Drummond Scientific Company	3-000-204	1.1), 1.2), 2.2)
Forceps	VWR	82027-402	1.1.5), 1.2), 2), 3.1.7)
CO ₂ delivery apparatus	Genesee Scientific	59-122BC	1.2), 2)
Trypan Blue	Thermo Fisher Scientific (Gibco)	15250061	1.3)
Hemocytometer	Hausser Scientific	3100	1.3)
24 well plate	Greiner bio-one	662160	1.4), 2.2)
<i>Coxiella burnetii</i> - mCherry	Dr. Heinzen, R.		1.4), 2.2)
<i>Drosophila</i> fruit juice plates	Cold Spring Harbor Protocols		2.1) http://cshprotocols.cshlp.org/content/2007/9/pdb.rec11113.full
Agar	Fisher Bioreagents	BP1423-500	2.1.1.1)
Methyl paraben	Amresco	0572-500G	2.1.1.2)
Absolute ethanol	Fisher Bioreagents	BP2818-500	2.1.1.2)
Welch's 100% Grape juice frozen concentrate, 340 mL	Amazon	B0025UJVG M	2.1.1.3)
Petri dishes, 10 x 35 mm	Fisher Scientific	08-757-100A	2.1.1.4)
Microscope cover glass	Fisher Scientific	12-545-80	1.4.4), 2.2.2)
Yeast, Bakers Dried Active	MP Biomedicals	0210140001	2.1) Add 2 parts of water to 1 part of yeast (v/v)
Tungsten needle	Fine Science Tools	10130-20	2.1)
Holding forceps	VWR	HS8313	2.1)
Paraformaldehyde	Fisher Scientific	FLO4042-500	3.1.3)
Triton X-100	Fisher Scientific	BP151-500	3.1.3)
Bovine Serum Albumin	Fisher Scientific	BP9706-100	3.1.3)
4',6-diamidino-2-phenylindole	Thermo Fisher Scientific	62247	3.1.4)
Antifade mounting medium	Thermo Fisher Scientific	P36930	3.1.6)

Confocal microscope	Leica	TCS SP8-X White Light Confocal Laser Scanning Microscope	3.2)
3D imaging reconstruction software	Leica	LASX with 3D visualization module	3.3)
Microscope slides	Fisher Scientific	12-552-3	3.1.6)
Invertebrate iridescent virus 6 (IIV6)	Dr. Teixeira, L.		4) PLoS Biol, 6 (12), 2753-2763, doi: 10.1371/journal.pbio.1000002, (2008)
<i>Listeria monocytogenes</i>	ATCC	strain: 10403S	4) <i>Listeria monocytogenes</i> strain 10403S (Bishop and Hinrichs, 1987) was grown in Difco Brain-heart infusion (BHI) broth (BD Biosciences) containing 50 µg/ml streptomycin at 30 °C.
DNase I	Thermo Fisher Scientific(Invitrogen)	18068015	gDNA degradation
cDNA Synthesis Kit	Bio-Rad	1708891	cDNA synthesis
IIV6_193R_F	IDT		qRT-PCR, 5'- TCT TGT TTT CAG AAC CCC ATT -3'
IIV6_193R_R	IDT		qRT-PCR, 5'- CAC GAA GAA TGA CCA CAA GG -3'
RpII_qRTPCR_fwd	SIGMA-ALDRICH		qRT-PCR, 5'- GAA GCG TTT CTC CAA ACG -AG
RpII_qRTPCR_rev	SIGMA-ALDRICH		qRT-PCR, 5'- TTG AGC GTA AGC ATC ACC -TG
SYBR Green qRT-PCR reagent	Thermo Fisher Scientific	K0251, K0252, K0253	qRT-PCR
Real-Time PCR System	Thermo Fisher Scientific	4351107, 7500 Software v2.0	qRT-PCR
Anti- <i>Listeria monocytogenes</i> antibody	abcam	ab35132	Western blot
Anti-Actin antibody produced in rabbit	SIGMA-ALDRICH	A2066	Western blot
Anti-Rabbit IgG (H+L), HRP Conjugate	Promega	W4011	Western blot