

Materials List for:

# Methods for Staging Pupal Periods and Measurement of Wing Pigmentation of *Drosophila guttifer*

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## Materials

Name	Company	Catalog Number	Comments
<i>Drosophila guttifer</i>	The Drosophila Species Stock Center at the U.C. San Diego	15130-1971.10	<i>Drosophila guttifer</i> , a fruit fly species used in this article
Plastic vial	Hightech	MKC-30	Plastic vial, for fly stock maintenance
Buzz plugs vial and bottle closures for glass vials	Fisher Scientific	AS-271	Cellulose plug, for fly stock maintenance
White soft sugar	Mitsui Sugar	J-500g	White soft sugar, for standard cornmeal/sugar/yeast/agar food
Corn flour	Nippon Flour Mills	F	Corn flour, for standard cornmeal/sugar/yeast/agar food
Corn grits - C	Nippon Flour Mills	GC	Corn grits - C, for standard cornmeal/sugar/yeast/agar food
Agar powder	Matsuki Kanten Sangyo	No.602	Agar powder, for standard cornmeal/sugar/yeast/agar food
Dry beer yeast	Asahi Food & Healthcare	Y2A	Dry beer yeast, for standard cornmeal/sugar/yeast/agar food
Butyl p-hydroxybenzoate	Nacalai Tesque	06327-02	Butyl p-hydroxybenzoate, for standard cornmeal/sugar/yeast/agar food
Ethanol	Wako	057-00456	Ethanol, for standard cornmeal/sugar/yeast/agar food
Flat bottom microtube	Ina Optica	CF-0150	1.5 mL microtube, for collecting pupae
CAPSULEFUGE	Tomy	PMC-060	Mini microcentrifuge, for collecting pupae
Sterilized Schale NB	Sansei Medical	01-013	Plastic Petri dish (diameter 90 mm x height 15 mm)
Serum tube rack	Iwaki	9796-050	Used as a moist chamber, for observation of pupa
Corning Falcon Easy-Grip tissue culture dish	Corning	353001	Plastic Petri dish (diameter 35 mm x height 10 mm)
Falcon standard tissue culture dish	Corning	353002	Plastic Petri dish (diameter 60 mm x height 15 mm)
Push-pin	Kokuyo	51233709	Push-pin, for making pinholes on the microtube lid
Stereomicroscope	Olympus	SZX16	Stereomicroscope, for morphological observation
Digital camera	Olympus	DSE-330-A	Digital camera, for imaging

NICETACK double sided tape	Nichiban	NW-15SF	Double sided tape, for removing puparium
Dumont #5 forceps	Fine Science Tools	11252-20	Forceps, for removing puparium
Van Gogh VISUAL Paint brush	Talens Japan	GWVR-#5/0	Paint brush, for removing puparium
Greiner CELLSTAR 12 well cell culture plate	Merck	665-180	12-well cell culture plate, for measuring durations of pupal periods
NaCl	Wako	191-01665	NaCl, for PBS
KCl	Nacalai Tesque	285-14	KCl, for PBS
Na <sub>2</sub> HPO <sub>4</sub> · 12H <sub>2</sub> O	Wako	196-02835	Na <sub>2</sub> HPO <sub>4</sub> · 12H <sub>2</sub> O, for PBS
KH <sub>2</sub> PO <sub>4</sub>	Nacalai Tesque	28721-55	KH <sub>2</sub> PO <sub>4</sub> , for PBS
Stepped Neutral Density (ND) Filter 0.04 - 3.0	Edmund Optics	64-384	Stepped density filter, for calibration of pigmentation measurement
ImageJ software	NIH	1.8.0-101	ImageJ software, for measurement of intensity of black spots on a wing ( <a href="https://imagej.nih.gov">https://imagej.nih.gov</a> )
FINE FROST glass slide	Matsunami Glass Ind	FF-001	Glass slide, for measurement of intensity of black spots on a wing
Square microscope cover glass 18 x 18	Matsunami Glass Ind	C018181	Cover slip, for measurement of intensity of black spots on a wing