

Materials List for:

Optical Cross-Sectional Muscle Area Determination of *Drosophila Melanogaster* Adult Indirect Flight Muscles

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URL: <https://www.jove.com/video/56179>

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Materials

Name	Company	Catalog Number	Comments
Image-J software	National Institutes of Health		https://imagej.nih.gov/ij/
Ultramicrotome	Leica	Leica UC6	
Microscope	Leica	Leica MZ6	Bright field technique.
Razor blades	Electron Microscopy Sciences	71970	Several alternative providers exist.
Scissors	World Precision World	14003	Several alternative providers exist.
Embedding molds	Electron Microscopy Sciences	70900	Several alternative providers exist.
Glutaraldehyde	Fluka (Sigma)	49624	Toxic.
OsO ₄	Polyscience	0972A	Extremely toxic.
Propylene oxide	Sigma Aldrich	82320-250ML	Extremely toxic.
resin (Durcupan)	Sigma Aldrich	44611-44614	Carcinogenic when it is unpolymerized.
Toluidine blue	Panreac	251176	Toxic.
Mountant Medium (DPX)	Sigma Aldrich	44581	Dangerous.
Paraformaldehyde	Sigma Aldrich	P6148-500G	Harmful.
Na ₂ HPO ₄	Panreac	122507	0.2 M dilution.
NaH ₂ PO ₄	Panreac	121677	0.2 M dilution.
Borax	Panreac	3052	Toxic.