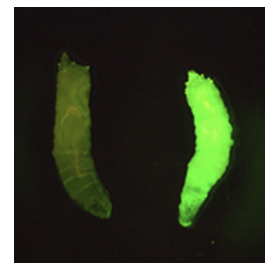


Oct 12, 2019

Version 1

A method for the permeabilization of live *Drosophila melanogaster* larvae to small molecules and cryoprotectants V.1

 Forked from [A method for the permeabilization of live *Drosophila melanogaster* larvae to small molecules and cryoprotectants](#)



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Protocol status: Working

We use this protocol and it's working

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Keywords: *Drosophila*, larvae, imaging, permeabilization, cryopreservation, fixation, larvae permeable to small molecule, permeabilization of live *drosophila melanogaster*, larvae to small molecule, *drosophila* larvae, cryoprotectants the larvae, live *drosophila melanogaster*, *drosophila melanogaster*, cryoprotectant, diacetate dye uptake, permeation by most substance, toxicity assay, small molecule, toxic levels of ethylene glycol, permeability, permeation, waxy cuticle, ethylene glycol, most substance

Abstract

The larvae of *Drosophila melanogaster* is a model organism used to study the muscular and nervous systems. *Drosophila* larvae are surrounded by a waxy cuticle that prevents permeation by most substances. Here we develop a method to remove this layer, rendering the larvae permeable to small molecules. Permeability is assessed using fluorescein diacetate dye uptake, and mortality upon exposure to toxic levels of ethylene glycol and DMSO. Potential uses for this method include drug delivery, toxicity assays, cryopreservation, staining, and fixation.

Attachments



[Permeabilization 120...](#)

936KB

