



May 17,
2019

Working

DABCO Mounting Slide Protocol for *Drosophila melanogaster* embryos

Ashley Albright¹

¹University of California, Berkeley

dx.doi.org/10.17504/protocols.io.2yjgfun

Ashley Albright

ABSTRACT

Protocol for mounting *Drosophila melanogaster* embryos stored in PBS or PBT onto slides for conventional fluorescence and/or confocal microscopy.

Adapted from:

Kosman, D., Mizutani, C.M., Lemons, D., Cox, W.G., McGinnis, E., and Bier, E. (2004)

<https://science.sciencemag.org/content/305/5685/846.long>

MATERIALS

NAME ▾	CATALOG # ▾	VENDOR ▾
1X PBS (Phosphate-buffered saline)		
Microscope slides		
Glycerol	G5516	Sigma Aldrich
14-Diazabicyclo[2.2.2]octane	D27802	Sigma-aldrich
clear nail polish		

SAFETY WARNINGS

Read SDS for DABCO prior to starting this protocol!

Make Mountant

- 1 In light-shielded 50 ml conical (I cover mine in foil) add 1.25 g of DABCO crystals, 15 ml of 1X PBS, and 35 ml of glycerol.



Read SDS for DABCO before starting.

- 2 Mix on rocking platform until the solution is homogeneous. Store at -20 °C.

Mount Slides

- 3 Take off as much liquid as you can, resuspend embryos in an arbitrary amount of DABCO mountant (depends on how dilute you want the embryos to be, but generally a couple hundred ul). Allow the embryos to settle 01:00:00 to 03:00:00 at Room temperature or overnight at 4 °C before mounting. Embryos can be stored for months/years in microcentrifuge tubes in

light-shielded boxes at -20°C .

- 4 Transfer approximately $35\ \mu\text{l}$ of embryos with using pipette tip cut with scissors onto a clean slide between two 22 x 22 mm coverslips approximately 0.5 cm apart in the middle of the slide. Cover with another 22 x 22 mm cover slip. Seal the edges with a quick-drying, transparent nail polish. Slides can be stored for a few weeks at 4°C in the dark (or a few months at -20°C).

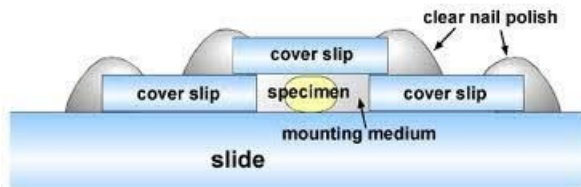


Image source: https://www.uwo.ca/sci/research/biotron/pdf/microscopy/LSM_SampleGuide.pdf



Keep in mind if you're DAPI staining, that tends to diffuse away. It is better to mount a fresh aliquot of embryos if samples are reanalyzed at a later date. ☹☹☹

- 5 Analyze embryos by conventional fluorescence or confocal microscopy.



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