

DAPI Nuclear Staining of Live Worm

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[Abstract] Adapted from the Villeneuve Lab at Stanford University. This is a very simple method using ethanol fixation, but works very well.

Materials and Reagents

1. Vectashield Mounting Media (Vector Labs)
2. M9 solution
3. 95% ethanol
4. DAPI solution

Equipment

1. Fluorescence microscope (Leica)
2. Whatman paper
3. Coverslip
4. Nail polish

Procedure

1. Pick worms in M9 solution ([see common worm media and buffers](#)) onto your slide.
2. Wick away extra liquid by Whatman paper.
3. Add 95% ethanol and let dry (usually 10–20 μ l); repeat 3x.
4. Add DAPI solution with vectashield (or other mounting media).
5. Cover with coverslip and seal with nail polish; let sit in the dark ~10 min.
6. The slides can then be visualized.