Materials List for:

Simple Method for Fluorescence DNA *In Situ* Hybridization to Squashed Chromosomes

Amanda M. Larracuente[1], Patrick M. Ferree[2]

[1]Department of Biology, University of Rochester

[2]W. M. Keck Science Department, Claremont McKenna, Pitzer, and Scripps Colleges

Correspondence to: Amanda M. Larracuente at alarracu@bio.rochester.edu, Patrick M. Ferree at pferree@kecksci.claremont.edu

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Materials

Name	Company	Catalog Number	Comments
Poly-L-lysine coated slides (regular slides also can be used)	Sigma Aldrich		
Ultrafine tweezers (5 gauge)	Dumont		
22 x 22 mm cover slips	Fisher		Sigmacote-treated by immersion for 15 sec, blotting dry, and wiping away all traces of Sigmacote so that cover slip is clear
Sigmacote	Sigma		
Filter paper			75 - 150 mm
Paraffin wax paper			
Heat block with thermometer			
Dry incubator			
Razor blades			
Humidity chamber			empty pipette tip box or Tupperware, lined with moistened paper towels or Kimwipes
Coplin jars			with slide grooves
Aluminum foil			
Pasteur pipettes			
1.5 ml microfuge tubes			
Nail polish			clear or colored
P20 micropipette and plastic tips			
Paperclips			20 - 25 standard metal paperclips linked to form a chain
Reagents			
16% EM grade paraformaldehyde	Electron Microscopy Reagents		
Acetic acid	Sigma		
Liquid nitrogen			
100% Ethanol, chemical grade			
Commercially synthesized, fluorescently labeled oligos			
Long biotinylated probe	Invitrogen; Alternative steps 2.7.1-2.7.3		*e.g.*, nick translated and biotinylated with BioNick from Invitrogen
Rhodamine-Avidin	Roche; Alternative steps 2.7.1-2.7.3		for detection of long biotinylated probe
Hybridization buffer	Recipe above		

4x SSCT	Recipe above		saline-sodium citrate + Tween
0.1x SSC	Recipe above		saline-sodium citrate
Blocking solution	Recipe above		
SBT	Recipe above		SSC, bovine serum albumin, Tween
1x PBT	Recipe above		phosphate-buffered saline + Tween
1x PBS			phosphate-buffered saline
Hypotonic solution			0.5% sodium citrate in H_2O
Formamide	Sigma Aldrich		
Vectashield mounting medium with DAPI	Vector laboratories		