

Materials List for:

Combined Immunofluorescence and DNA FISH on 3D-preserved Interphase Nuclei to Study Changes in 3D Nuclear Organization

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Materials

Name	Company	Catalog Number	Comments
H ₂ O	Fisher	# BP2470	
RNase A	Sigma	# R4642	
dNTP	Sigma	# DNTP100	
Alexa dUTP	Invitrogen	# C11397 to C-11401	
Cy3 or Cy5 dUTP	Fisher	# 45-001-xxx	
DNase I	Roche	# 04536282001	
DNA Pol I	Biolabs	# M0209	
0.025 µm filters	Millipore	# VSWP02500	
Cot-1 DNA 1 mg/ml	Invitrogen	# 18440	
Hybloc DNA 1 mg/ml	Applied Genetics	# MHB	
Salmon sperm	Sigma	# D1626	powder to be resuspended at 10 mg/ml in H ₂ O
NaAc (Sodium Acetate, pH 5.2, buffer solution)	Sigma	# S7899	
Ficoll 400 (Mol Biol grade)	Fisher	# 525	
Polyvinylpyrrolidone (Mol Biol grade)	Fisher	# BP431	
Dextran sulfate powder	Sigma	# D8906	
SSPE (Saline-Sodium Phosphate-EDTA) 20x solution	Fisher	# BP1328	
Formamide	Fisher	# BP227	
Coverslips	Fisher	# 12-548-B	
Slides	Fisher	# 12-550	
6-well plates	Fisher	# 0720080	
PBS, 10x	Fisher	# MT-46-013-CM	
Poly-L-lysine solution	Sigma	# P8920	
Paraformaldehyde, prills, 95%	Sigma	# 441244	
Triton-X-100, Mol Biol grade	Sigma	# T8787	
BSA (Bovine Serum Albumin) Fraction V	Fisher	# BP 1600	
Normal goat serum	Vector Labs	# S-1000	
Tween-20, Mol Biol grade	Sigma	# P9416	

SSC (Saline Sodium Citrate) 20x solution	Fisher	# BP1325	
ProLong Gold antifade reagent	Invitrogen	# P36930	
DAPI (4',6-diamidino-2-phenylindole)	Sigma	# D9542	
Best test one coat rubber cement	Art or office supply stores		

Table 1. Specific reagents and small equipment.