

Materials List for:

Mouse Oocyte Microinjection, Maturation and Ploidy Assessment

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Materials

Name	Company	Catalog Number	Comments
Table of specific reagents:			
Milrinone	Sigma-Aldrich	M4659	Resuspend in DMSO at 2.5mM
Mineral oil	Sigma-Aldrich	M5310	Only use embryo-tested, sterile-filtered
CREST autoserum	Immunovision	HCT-0100	
Sytox Green	Invitrogen	57020	
Anti-human Alexa 594	Invitrogen	A-11014	
Vectashield	Vector Laboratories	H-100	
Paraformaldehyde	Polysciences, Inc.	577773	
Albumin from bovine serum	Sigma-Aldrich	A3294	
PMSG	Calbiochem	367222	
Monastrol	Sigma-Aldrich	M8515	Resuspend in DMSO at 100mM
Tween-20	Sigma-Aldrich	274348	
TritonX-100	Sigma-Aldrich	X-100	
Table of specific equipment:			
Mouthpiece	Biodiseno	MP-001-Y	
Watchglass	Electron Microscopy Sciences	70543-30	
Syringe	BD Biosciences	309623	1ml, 27G ^{1/2}
60 mm Petri Dish	Falcon BD	351007	
Glass Pasteur pipets	Fisher Scientific	13-678-200	
Side warmer	Fisher Scientific		Any standard model
Dissection microscope			Any standard model
Chamber Slide	Nalge Nunc international	177372	
Capillary Tubing	Drummond Scientific	1-000-0500	microcaps
Pipette Puller	Flaming-Brown micropipette puller		Model P-97
Inverted microscope	Nikon Instruments		Any standard model
Micromanipulators	Eppendorf		Any standard model
Picoinjector	Harvard Apparatus	Model PLI-100	Any standard model
CO ₂ tanks			For incubator
N ₂ tank			For table and injector
Anti-vibration table	Technical Manufacturing Corp.		Any standard model
Incubator			Any standard model
Holding pipettes	Eppendorf	930001015	Vacutip
Confocal microscope	Leica Microsystems		Any standard model
Dissection tools	Fine Science Tools		Any standard model

Humidified chamber			We use tupperware
Lid of 96 well plate	Nalge Nunc international	263339	
Microscope slides	Fisher Scientific	12-544-3	
Coverslips	Thomas Scientific	6663-F10	Thickness will vary for particular microscopes
Center well organ culture dish	Fisher Scientific	353037	60 X 15mm