

Materials List for:

Meiotic Spindle Assessment in Mouse Oocytes by siRNA-mediated Silencing

Claudia Baumann¹, Maria M. Viveiros¹

¹Department of Physiology and Pharmacology, College of Veterinary Medicine, University of Georgia

Correspondence to: Maria M. Viveiros at viveiros@uga.edu

URL: <https://www.jove.com/video/53586>

DOI: [doi:10.3791/53586](https://doi.org/10.3791/53586)

Materials

Name	Company	Catalog Number	Comments
Reagents			
Pregnant Mare's Serum Gonadotropin (PMSG)	EMD Biosciences	367222	
Minimal Essential Medium (MEM)			*Recipe outlined in Table 1
Earle's Balanced Salt Solution (10x)	Sigma	E-7510	
Sodium Bicarbonate	Sigma	S-5761	
Pyruvic Acid, sodium salt	Sigma	P-5280	
Penicillin G, potassium salt	Sigma	P-7794	
Streptomycin Sulfate	Sigma	S-9137	
L-Glutamine	Sigma	G-8540	
EDTA, disodium salt dihydrate	Sigma	E-4884	
Essential Amino Acids (50x)	Gibco	11130-051	
MEM Vitamin Mixture (100x)	Sigma	M-6895	
Phenol Red solution	Sigma	P-0290	
Bovine Serum Albumin (BSA)	Sigma	A1470	
Milrinone	Sigma	M4659	
Fetal Bovine Serum (FBS)	Hyclone	SH30070.01	
EmbryoMax M2 Media with Hepes	EMD Millipore	MR-015-D	
siRNAs targeting Pericentrin	Qiagen	GS18541	
Negative control siRNAs	Qiagen	SI03650318	
Paraformaldehyde (16% solution)	Electron Microscopy Sciences	15710	
Triton-X	Sigma	T-8787	
Phosphate Buffered Saline (PBS)	Hyclone	SH30028.02	
Anti-Pericentrin (rabbit)	Covance	PRB-432C	
Anti-acetylated α -tubulin (mouse)	Sigma	T-6793	
Goat anti-rabbit Alexa Fluor 488	Invitrogen	A-21430	
Goat anti-mouse Alexa Fluor 555	Invitrogen	A-11017	
Major Equipment			
Stereomicroscope (SMZ 800)	Nikon		
Upright Fluorescent Microscope	Leica Microsystems		
Inverted Microscope	Nikon		
Femtojet Micro-injections System	Eppendorf		
Micro manipulators	Eppendorf		
Micro-injection needles (femtotips)	Eppendorf	930000035	

Holding pipettes (VacuTip)	Eppendorf	930001015	
Plasticware			
35 mm culture dishes	Corning Life Sciences	351008	
4-well plates	Thermo Scientific	176740	
96 well plates	Corning Life Sciences	3367	
0.45 mm CA Filter System	Corning Life Sciences	430768	