

Materials List for

# Isolation of Murine Spermatogenic Cells using a Violet-Excited Cell-Permeable DNA Binding Dye

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## Materials

Name	Company	Catalog Number	Comments
1.5 ml tube	Watson	131-7155C	
100 mm Petri dish	Corning, Falcon	351029	
15 mL Centrifuge tube	Watson	1332-015S	
5 ml polystyrene tube with cell strainer snap cap (35 µm nylon mesh)	Corning, Falcon	352235	
50 mL Centrifuge tube	Watson	1342-050S	
60 mm Petri dish	Corning, Falcon	351007	
70 µm nylon mesh	Corning, Falcon	352350	
Cell sorter	Sony	SH800S	
Centrifuge			
Collagenase, recombinant, Animal-derived-free	FUJIFILM Wako Pure Chemical Corporation	036-23141	
Collagenase, Type 1	Worthington	LS004196	
Cover glass	Fisher	12-544-G	
Cytospin 3	Shandon		
DAPI (4',6-Diamidino-2-Phenylindole, Dihydrochloride)	Fisher	D1306	working concentration: 0.1 µg/mL
Dnase I	Sigma	D5025-150KU	
Donkey serum	Sigma	S30-M	
Dulbecco's phosphate-buffered saline (DPBS)	Gibco	14190144	
Dulbecco's Modified Eagle Medium (DMEM)	Gibco	11885076	

Fetal bovine serum (FBS)	Gibco	16000044	
Histone H1t antibody	gift from Mary Ann Handel		1/2000 diluted
Hank's balanced salt solution (HBSS)	Gibco	14175095	
Hyaluronidase from bovine testes	Sigma	H3506-1G	
Phosphate buffered saline (PBS)	Sigma	P5493-4L	
Pipetmen			
ProLong Gold Antifade Mountant	Fisher	P36930	
rH2AX antibody	Millipore	05-635	working concentration: 2 µg/mL
Sperm Fertilization Protein 56 (Sp56) antibody	QED Bioscience	55101	working concentration: 0.5 µg/mL
Sterilized forceps and scissors			
Superfrost /Plus Microscope Slides	Fisher	12-550-15	
SYCP3 antibody	Abcam	ab205846	working concentration: 5 µg/mL
TWEEN 20 (Polysorbate 20)	Sigma	P9416	
Vybrant DyeCycle Violet Stain (DCV)	Invitrogen	V35003	
Water bath			