

Materials List for:

Spectral Karyotyping to Study Chromosome Abnormalities in Humans and Mice with Polycystic Kidney Disease

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Materials

Name	Company	Catalog Number	Comments
DMEM	Cellgro	10-013-CV	
Fetal bovine serum (FBS)	Hyclone	SH30088-03	
Penicillin/Streptomycin	Thermo Fisher Scientific, Inc.	SV30010	
Colcemid	Roche Group	10 295 892 001	10 µg/ml
HCl	Fisher Scientific	A144-500	
KCl	Fisher Scientific	S77375-1	
Phosphate buffered saline	Thermo Fisher Scientific, Inc.	SH30256-01	
SKY paint probe kit (Human)	Applied Spectral Imaging	SKY000028	
SKY paint probe kit (Mouse)	Applied Spectral Imaging	SKY000030	
Concentrated antibody detection kit	Applied Spectral Imaging	SKY000033	
Trypsin	Thermo Fisher Scientific, Inc.	SH30236.01	
Methanol	Fisher Scientific	A433P-4	
Acetic acid	Fisher Scientific	A38-212	
RNase A	Roche Group	10 109 169 001	
Pepsin	Sigma-Aldrich	P6887-5G	
MgCl ₂	Fluka	63069-500ML	
37% Formaldehyde	Mallinckrodt Baker Inc.	2106-02	
20X SSC	Promega Corp.	V4261	
Formamide	Fluka	47671	prepare just before use
Tween-20	Fisher Scientific	BP337-500	
Microscope glass slides	Fisher Scientific	12-549	
Microscope cover glass 24x60mm	VWR international	16004-312	
Rubber cement	Elmer's		
Hybridization/ humidifiedchamber/ Tray	Simport	M920-2	put wet paper towels at the bottom
Thermocycler	Eppendorf	Eppgradient S	
Shaking platform/Orbital shaker	Bellco Glass		
Shaking/water bath	Precision Scientific		
DAPI filter cube	Chroma Technology Corp.		
SKY filter cube	Chroma Technology Corp.		
SpectraCube	Applied Spectral Imaging		
Inverted cell culture microscope	Nikon Instruments	Nikon Eclipse TS100	
Fluorescence microscope	Olympus Corporation	IX70	60X oil