

Materials List for:

Isolation and Culture of Cells from the Nephrogenic Zone of the Embryonic Mouse Kidney

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Materials

Name	Company	Catalog Number	Comments
Watchmaker's forceps #5	Roboz Surgical Instruments Co.	RS-4905	2 pairs required
Collagenase A	Roche Group	10 103 578 001	Wear mask
Porcine Pancreatin	Sigma-Aldrich	P8096	Wear mask
DPBS w/ Ca, Mg	Lonza Inc.	17-513F	With Mg & Ca
Fetal bovine serum (FBS)	BioWhittaker	14-901E	
HBSS	GIBCO, by Life Technologies	14175	
KSFM	GIBCO, by Life Technologies	10724-011	without added growth factors
L-Glutamine 200mM	Sigma-Aldrich	G7513	Use @ 1% v/v
PenStrep 10,000 U penicillin / ml 10 mg streptomycin / ml	Sigma-Aldrich	P4333	Use @ 1% v/v
Fibronectin	BD Biosciences	356008	Supplied as powder
24 well culture plate	Thermo Fisher Scientific, Inc.	142485	Nunclon
DPBS w/o Mg & Ca	Lonza Inc.	17-512F	
5mL polystyrene tubes	BD Biosciences	352235	
DNase (1 U/μl)	Invitrogen	18068-015	4 μl per 1.5 ml
40 micron cell-strainer	BD Biosciences	352235	w/cap and tube
Paraformaldehyde	Sigma-Aldrich	P6148	Use @ 4 % w/v
Triton X100	VWR international	VW3929-2	Use @ 0.3 % v/v
PBS	Sigma-Aldrich	P3813	Supplied as powder
Donkey serum	Jackson ImmunoResearch	017-000-121	Use @ 5 % v/v
Rabbit anti-PAX2	Invitrogen	71-6000	Dilute 1:100
Rabbit anti-β-gal	MP Biomedicals	559762	Dilute 1:200
Oregon Green 488 phalloidin	Invitrogen	O7466	Dilute 1:200
Donkey anti-rabbit Alexa Fluor 568	Invitrogen	A10042	Dilute 1:200
DAPI	Invitrogen	D1306	Dilute 1:5000
Vectashield	Vector Laboratories	H-1000	
Glycerol	EMD Millipore	GX0185-6	Mix 50 % with H ₂ O
RNeasy Micro Kit	Qiagen	74004	Use "DNase on column" protocol
Transfer pipettes, 3ml	BD Biosciences	357575	