

Materials List for:

Whole-cell Patch-clamp Recordings of Isolated Primary Epithelial Cells from the Epididymis

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Materials

Name	Company	Catalog Number	Comments
Instrument of AXON system			
Computer controlled amplifier	Molecular Devices - Axon	Multiclamp 700B patch-clamp amplifier	
Digital Acquisition system	Molecular Devices - Axon	Digidata 1550 converter	
Microscope	Olympus	BX-61WI	
Micromanipulator	Sutter Instruments	MPC-325	
Recording chamber and in-line Heater	Warner Instruments	TC-324C	
Instrument of HEKA system			
Patch Clamp amplifier	Harvard Bioscience - HEKA	EPC-10 USB double	
Microscope	Olympus	IX73	
Micromanipulator	Sutter Instruments	MPC-325	
Recording chamber and in-line Heater	Warner Instruments	TC-324C	
Other Instrument			
Micropipette Puller	Sutter Instrument	P-1000	
Recording Chamber	Warner Instruments	RC-26G or homemade chamber	
Borosilicate capillary glass with filament	Sutter Instrument / Harvard Apparatus	BF150-86-10	
Vibration isolation table	TMC	63544	
Digital Camare	HAMAMASTU	ORCA-Flash4.0 V2 C11440-22CU	
Reagents for isolation			
RPMI 1640 medium	Gibco	22400089	
Penicillin/Streptomycin	Gibco	15140112	
IMDM	ATCC	30-2005	
IMDM	Gibco	C12440500BT	
Collagenase I	Sigma	C0130	
Collagenase II	Sigma	C6885	
5- α -dihydrotestosterone	Medchemexpress	HY-A0120	
Fetal bovine serum	capricorn	FBS-12A	
Micropipette internal solutions (K⁺-based solution) (pH 7.2, 280-295 mOsm)			

KCl, 35mM	Sigma/various	V900068	
MgCl ₂ · 6H ₂ O, 2mM	Sigma/various	M2393	
EGTA, 0.1mM	Sigma/various	E4378	
HEPES, 10mM	Sigma/various	V900477	
K-gluconate, 100mM	Sigma/various	P-1847	
Mg-ATP, 3mM	Sigma/various	A9187	
The standard external recording physiological salt solution (PSS) (pH 7.4, 300-310 mOsm)			
NaCl, 140mM	Sigma/various	V900058	
KCl, 4.7mM	Sigma/various	V900068	
CaCl ₂ , 2.5mM	Sigma/various	V900266	
MgCl ₂ · 6H ₂ O, 1.2mM	Sigma/various	M2393	
NaH ₂ PO ₄ , 1.2mM	Sigma/various	V900060	
HEPES, 10mM	Sigma/various	V900477	
Glucose, 10mM	Sigma/various	V900392	
For pH adjustment			
NaOH	Sigma/various	V900797	Purity>=97%
KOH	Sigma/various	60371	Purity>=99.99%