

Materials List for:

Mechanical Stimulation-induced Calcium Wave Propagation in Cell Monolayers: The Example of Bovine Corneal Endothelial Cells

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Materials

Name	Company	Catalog Number	Comments
Earle's Balanced Salt Solution (EBSS)	Invitrogen-Gibco-Molecular Probes (Karlsruhe, Germany)	14155-048	
Iodine	Sigma-Aldrich (Deisenhofen, Germany)	38060-1EA	
Dulbecco's Modified Eagle's Medium (DMEM)	Invitrogen-Gibco-Molecular Probes (Karlsruhe, Germany)	11960-044	
L-glutamine (Glutamax)	Invitrogen-Gibco-Molecular Probes (Karlsruhe, Germany)	35050-038	
Amphotericin-B	Sigma-Aldrich (Deisenhofen, Germany)	A2942	
Antibiotic-antimycotic mixture	Invitrogen-Gibco-Molecular Probes (Karlsruhe, Germany)	15240-096	
Trypsin	Invitrogen-Gibco-Molecular Probes (Karlsruhe, Germany)	25300-054	
Dulbecco's PBS	Invitrogen-Gibco-Molecular Probes (Karlsruhe, Germany)	14190-091	
Fluo-4 AM	Invitrogen-Gibco-Molecular Probes (Karlsruhe, Germany)	F14217	
ARL-67156 (6-N,N-Diethyl-b,g-dibromomethylene-D-ATP)	Sigma-Aldrich (Deisenhofen, Germany)	A265	
Apyrase VI	Sigma-Aldrich (Deisenhofen, Germany)	A6410	
Apyrase VII	Sigma-Aldrich (Deisenhofen, Germany)	A6535	
Gap26 (VCYDKSFPISHVR)	Custom peptide synthesis		
Gap27 (SRPTEKTIFII)	Custom peptide synthesis		
Control Peptide (SRGGEKNVFIV)	Custom peptide synthesis		
siRNA1 Cx43 (sense: 5'GAAGGAGGAGGAACU-CAAAAdTdT)	Annealed siRNA was purchased at Eurogentec (Luik, Belgium)		
siRNA2 Cx43 (sense: 5'CAAUUCUUCUGCCGCAAUdTdT)	Annealed siRNA was purchased at Eurogentec (Luik, Belgium)		
siRNA scramble: scrambled sequence of siCx43-1 (sense: 5'GGUAAACG-GAACGAGAAGAdTdT)	Annealed siRNA was purchased at Eurogentec (Luik, Belgium)		
TAT-L2 (TAT-DGANVDMHLKQIEIKFKYGIIEHGK)	Thermo Electron (Ulm, Germany)		
TAT-L2-H126K/I130N (TAT-DGANVDMKLLKQNEIKFKYGIIEHGK)	Thermo Electron (Ulm, Germany)		

Two chambered glass slides	Laboratory-Tek Nunc (Roskilde, Denmark)	155380	
Confocal microscope	Carl Zeiss Meditec (Jena, Germany)	LSM510	
Piezoelectric crystal nanopositioner (Piezo Flexure NanoPositioner)	PI Polytech (Karlsruhe, Germany)	P-280	
HVPZT-amplifier	PI Polytech (Karlsruhe, Germany)	E463 HVPZT-amplifier	
Glass tubes (glass replacement 3.5 nanoliter)	World Precision Instruments, Inc. Sarasota, Florida, USA	4878	
Microelectrode puller	Zeitz Instrumente (Munich, Germany)	WZ DMZ-Universal Puller	