

Materials List for:

Voltage-clamp Fluorometry in *Xenopus* Oocytes Using Fluorescent Unnatural Amino Acids

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Materials

Name	Company	Catalog Number	Comments
Solutions			
Barth's solution			
NaCl	Sigma-Aldrich	S7653	90 mM
KCl	Fisher Scientific	BP366-500	3 mM
MgSO ₄	Sigma-Aldrich	M-9397	0.82 mM
CaCl ₂	Sigma-Aldrich	C-7902	0.41 mM
Ca(NO ₃) ₂	Sigma-Aldrich	C-1396	0.33 mM
HEPES	Sigma-Aldrich	H4034	5 mM
NaOH hydrate	BDH	BDH7225-4	pH 7.6
Penicilin	Invitrogen	15140122	100 U/mL
Streptomycin	Invitrogen	15140122	100 µg/mL
Kanamycin	Invitrogen	15160054	10 mg/100mL
Horse Serum (HS)	Invitrogen	16050122	5%
SOS Standard Oocyte Solution			
NaCl	Sigma-Aldrich	746398	102 mM
KCl	Sigma-Aldrich	746436	3 mM
MgCl ₂	Sigma-Aldrich	M9272	1 mM
HEPES	Sigma-Aldrich	H4034	5 mM
External recording solution			
N-methyl-D-glucamine (NMDG)	Alfa Aesar	L14282	115 mM
HEPES	Sigma-Aldrich	H4034	10 mM
Calcium hydroxide	Sigma-Aldrich	239232	2 mM
MES hydrate	Sigma-Aldrich	258105	pH 7.2
Internal recording solution			
N-methyl-D-glucamine (NMDG)	Alfa Aesar	L14282	115 mM
HEPES	Sigma-Aldrich	H4034	10 mM
Ethylenediamine Tetraacetic Acid (EDTA)	Fisher Scientific	E478-500	2 mM
MES hydrate	Sigma-Aldrich	258105	pH 7.2
Labeling solution			
KOH	Fisher Scientific	P250-1	115 mM
HEPES	Sigma-Aldrich	H4034	10 mM
Calcium hydroxide	Sigma-Aldrich	239232	2 mM

MES hydrate	Sigma-Aldrich	258105	pH 7.2
TMR stock solution			
Tetramethylrhodamine-5-maleimide (TMR)	Molecular Probes by Life Technologies	T6027	5 mM in DMSO
Anap stock solution			
Anap	ABZENA (TCRS)	Custom synthesis TCRS-170	1 mM in nuclease-free water and 1% NaOH 1 N
Name	Company	Catalog Number	Comments
Material/Equipment			
pAnap	Addgene	48696	
High Performance Oocyte Clamp	Dagan Corporation	CA-1B	
Gpatch Acquisition software	Department of Anesthesiology, University of California, Los Angeles		
Analysis software	Department of Anesthesiology, University of California, Los Angeles		
Recording Chamber	Custom machined		
Photo diode detection system	Dagan Corporation	PhotoMax-200/PIN	
Electrical shutter driver	UNIBLITZ	VCM-D1	