

Isolation of Intrapulmonary Artery and Smooth Muscle Cells to Investigate Vascular Responses

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Materials

Name	Company	Catalog Number	Comments
1,4-dithiothreitol (DTT)	Sigma-Aldrich	D0632 CAS NO. 348-12-3	
4-aminopyridine (4-AP)	Aldrich Chemical	A78403 CAS NO. 504-24-5	
Acetylcholine	Sigma-Aldrich	A6625 CAS NO. 60-31-1	
Apamin	Sigma-Aldrich	A9459 CAS NO. 24345-16-2	
Bovine serum albumin (BSA)	Sigma-Aldrich	A2153 CAS NO. 9048-46-8	
Calcium chloride	Ajax Finechem	AJA960 CAS NO. 1707055184	
Charybdotoxin	Sigma-Aldrich	C7802 CAS NO. 95751-30-7	
Collagenase type 1A	Sigma-Aldrich	C9891 CAS NO. 9001-12-1	From Clostridium histolyticum
D(+)-Glucose monohydrate	Millipore Corporation	K50876942 924 CAS NO. 14431-43-7	
Dimethyl sulfoxide (DMSO)	Sigma-Aldrich	D4540 CAS NO. 67-68-5	
Ethylene glycol-bis (2-aminoethylether)-N,N,N',N'-tetraacetic acid (EGTA)	Sigma-Aldrich	E3889 CAS NO. 67-42-5	
Ethylenediaminetetraacetic acid (EDTA)	Sigma-Aldrich	E9884 CAS NO. 60-00-4	
Forceps 11 cm.	Rustless Dumoxel	-	
Forceps 14 cm.	Rustless Dumoxel	-	
Glibenclamide	Sigma-Aldrich	G6039	

		CAS NO. 16673-34-0	
GraphPad Prism program	Software version 5.0 (San Diego, CA, USA)		
HEPES	Sigma-Aldrich	H3375 CAS NO. 7365-45-9	
Iberiotoxin	Sigma-Aldrich	I5904 CAS NO. 1002546960	recombinant from Mesobuthus tamulus
Indomethacin	Sigma-Aldrich	I7378 CAS NO. 53-86-1	
Labchart Program	Software version 7.0 (A.D. Instrument, Castle Hill, Australia).		
Magnesium chloride	Ajax Finechem	296 CAS NO. 1506254995	
Male Wistar rats	Nomura Siam International Co. Ltd., Bangkok, Thailand		
NG-nitro-L-arginine methyl ester (L-NAME)	Sigma-Aldrich	N5751 CAS NO. 51298-62-5	
Nicardipine	Sigma-Aldrich	N7510 CAS NO. 54527-84-3	
Organ bath 15 mL.	-	-	Specific order by the researchers
Papain	Sigma-Aldrich	P4762 CAS NO. 9001-73-4	FromPapaya Latex
Phenal red	Sigma-Aldrich	P5530 CAS NO. 34487-61-1	
Phenylephrine	Sigma-Aldrich	P6126 CAS NO. 61-76-7	
Potassium chloride	Kemaus	KA383 CAS NO. 7447-40-7	
Potassium dihydrogenphosphate	Aldrich Chemical	EC231-913-4 CAS NO. 7778-77-0	
S+A2:E36odium chloride	Kemaus	KA465 CAS NO. 7647-14-5	
Scissors 11 cm.	Spall Stainless	-	
Scissors 14 cm.	Spall Stainless	-	
Sodium bicarbonate	Ajax Finechem	475 CAS NO. 912466	
Sodium dihydrogenphosphate	Aldrich Chemical	33,198-8 CAS NO. 7558-80-7	
Sodium hydroxide	Ajax Finechem	482 CAS NO. 1506196602	
Sodium thiopental	Anesthal	JPN3010002 CAS NO. 1C 314/47	
Taurine	Sigma-Aldrich	T0625 CAS NO. 107-35-7	
Waterbath WBU 45	Memmert	2766 CAS NO. -	