

Materials List for:

Real-Time, Semi-Automated Fluorescent Measurement of the Airway Surface Liquid pH of Primary Human Airway Epithelial Cells

Vinciane Saint-Criq¹, Iram J. Haq^{2,3}, Aaron I. Gardner², James P. Garnett^{2,4}, Christopher Ward^{1,2}, Malcolm Brodrie^{2,3}, Michael A. Gray¹

¹Epithelial Research Group, Institute for Cell and Molecular Biosciences, Faculty of Medical Sciences, Newcastle University

²Respiratory Group, Institute of Cellular Medicine, Faculty of Medical Sciences, Newcastle University

³Paediatric Respiratory Medicine, Great North Children's Hospital, Newcastle upon Tyne Hospitals NHS Foundation Trust

⁴Boehringer Ingelheim Pharma GmbH & Co

Correspondence to: Vinciane Saint-Criq at vinciane.saint-criq@newcastle.ac.uk

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Materials

Name	Company	Catalog Number	Comments
0.2 µm syringe filter	Starlab	E4780-1226	
6.5 mm Transwell with 0.4 µm Pore Polyester Membrane Insert	Corning	3470	
CaCl ₂	Sigma Aldrich	21115	
CFTRInh172	RnD Systems (Tocris)	3430	Stock Concentration: 50 mM; Final Concentration: 20 µM
Costar 24-well Clear TC-treated Multiple Well Plates	Corning	3524	
dextran-coupled pH-insensitive fluorescent dye: AlexaFluor488-dextran	ThermoFisher	D22910	Stock Concentration: 1 mg/mL; Final Concentration: 0.67 mg/mL
dextran-coupled pH-sensitive fluorescent dye: pHrodo-dextran	ThermoFisher	P10361	Stock Concentration: 1 mg/mL; Final Concentration: 0.67 mg/mL
D-glucose	Sigma Aldrich	G5767	
Forskolin	RnD Systems (Tocris)	1099	Stock Concentration: 50 mM; Final Concentration: 10 µM
Greiner CELLSTAR 96 well plates	Cellstar	655180	
Humidity cassette	TECAN	30090495	
KCl	Sigma Aldrich	P9541	
MES	Sigma Aldrich	M3885	
MgCl ₂	Sigma Aldrich	M1028	
NaCl	Sigma Aldrich	S9888	
NaHCO ₃	Sigma Aldrich	S5761	
NaHepes	Sigma Aldrich	H3784	
Plate reader: TECAN SPARK 10M	TECAN	30086375	
Tris	Sigma Aldrich	T1503	
Universal pH electrodes DJ 113	VWR	662-1385	