

Materials List for:

Gap Junctional Intercellular Communication: A Functional Biomarker to Assess Adverse Effects of Toxicants and Toxins, and Health Benefits of Natural Products

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Materials

Name	Company	Catalog Number	Comments
WB-F344 rat liver epithelial cells	From Drs. J. W. Grisham and M. S. Tsao of the University of North Carolina (Chapel Hill, NC)	none	Provided by Drs. J. W. Grisham and M. S. Tsao University of North Carolina-Chapel Hill-NC
35 mm Culture Plates	Corning	430165	
25 cm ² culture flasks	Corning	430639	
75 cm ² culture flasks	Corning	430641	
D-medium, an Eagles modified medium	ThermoFisher/GIBCO	Formula No. 78-5470EF	
fetal bovine serum	ThermoFisher/GIBCO	10437	
0.25% trypsin-EDTA	ThermoFisher/GIBCO	15050	
phosphate buffered saline	homemade	see below for ingredient cat#s	137 mM NaCl, 2.7 mM KCl, 10 mM Na ₂ PO ₄ , 2 mM KH ₂ PO ₄
KCl	JT Baker - Mallinckrodt	3040-01	
NaCl	JT Baker - Mallinckrodt	3624-05	
Na ₂ HPO ₄	JT Baker - Mallinckrodt	3819--01	
KH ₂ PO ₄	JT Baker - Mallinckrodt	3246-01	
Lucifer Yellow CH, lithium salt	Sigma-Aldrich Chemical	L0259	
rhodamine-dextran	Sigma-Aldrich Chemical	R9379	
1-methylantracene	Sigma-Aldrich Chemical		
phenanthrene	Sigma-Aldrich Chemical	P11409	
resveratrol	Sigma-Aldrich Chemical	R5010	
D609	Tocris Bioscience	1437	
acetonitril	EMD	AX0145-1	
37% solution formaldehyde	JT Baker - Mallinckrodt	2106-01	
#20 surgical blade	Fine Science Tools Inc.	10317-14	
50 ml conical sterile tubes	Thermo scientific	339652	
Nikon epifluorescence microscope	Nikon -Mager Scientific	Eclipse TE300	
Nikon FITC dichroic cube	Nikon -Mager Scientific	96107	
CCD camera	Nikon -Mager Scientific	Nikon Cool Snap EZ CCD	
imaging system	Nikon -Mager Scientific	Nikon NIS-Elements F2.2 imaging system.	
ImageJ	National Institute of Health	http://imagej.nih.gov/ij/	