

Measuring Changes in Brain Endothelial Barrier Integrity with Two Impedance-based Biosensors in Response to Cancer Cells and Cytokines

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Materials

Name	Company	Catalog Number	Comments
aMEM	Gibco	12561072	Melanoma cell base media
cellZscope array	nanoAnalytics	cellZscope2; software v4.3.1	TER measuring biosensor array
Collagen I—rat tail	Gibco	A1048301	ECM substrate for coating
dibutyl-yl-cAMP	Sigma-Aldrich	D0627	Brain endothelial media supplement
ECIS array	Applied Biophysics	ECIS Z0; software v1.2.163.0	Rb/Alpha measuring biosensor array
ECIS plate	Applied Biophysics	96W20idf	96-well biosensor plate
FBS	Sigma-Aldrich	12203C-500ML	
GlutaMAX	Gibco	305050-061	Brain endothelial media supplement
hCMVEC	Applied Biological Materials	T0259	Brain endothelial cell line
hEGF	PeproTech	PTAF10015100	Brain endothelial media supplement
Heparin	Sigma-Aldrich	H-3393	Brain endothelial media supplement
hFGF	PeproTech	PTAF10018B50	Brain endothelial media supplement
Hydrocortison	Sigma-Aldrich	H0888	Brain endothelial media supplement
IL-1β	PeproTech	200-01B	Cytokine
Insulin-Transferrin-Sodium Selenite	Sigma-Aldrich	11074547001	Melanoma cell media supplement
M199	Gibco	11150-067	Brain endothelial cell base media
MilliQ water			Deionized water
PBS 1x	Gibco	10010-023	
TNFα	PeproTech	300-01A	Cytokine
Transwell insert	Corning	CLS3464	Porous membrane insert
TrypLE Express Enzyme	Gibco	12604021	Dissociation reagent