

Materials List for:

Using the Dot Assay to Analyze Migration of Cell Sheets

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Materials

Name	Company	Catalog Number	Comments
MCF10CA1a cells	Karmanos Research Institute	N/A	cells used for assay
mouse collagen IV	BD Biosciences	354233	used to coat plates
trypsin / EDTA	Thermo Fisher	25300054	used to remove cells from tissue culture plates
DPBS	Mediatech	21-031-CV	used to wash cells
DMEM / F12	Thermo Fisher	11320082	used as culture medium
horse serum	Thermo Fisher	26050088	used to supplement culture medium
12 well glass bottom plate	MatTek	P12G-1.5-14-F	used to grow cells for imaging
EGF (epidermal growth factor, human recombinant)	Peptotech	AF-100-15	used to stimulate cells
fatty acid free BSA	Sigma	A8806-1G	used to make buffer for EGF
hematoxylin	Sigma	HHS32	used to stain colonies
eosin	Electron Microscopy Sciences	26051-10	used to stain colonies
37 °C, 5% CO ₂ incubator	Sanyo	model MCO-18AIC (UV)	
Zeiss AxioObserver with incubator chamber and motorized stage	Zeiss	model Axio Observer.Z1	used for time lapse imaging
ORCA Flash LT sCMOS camera	BioVision	C11440-42U-KIT	used for timelapse imaging in combination with Zeiss AxioObserver
Metamorph	BioVision	MMACQMIC	software used for time lapse imaging
inverted microscope	Olympus	model IX70	used to count cells and to check colonies in tissue culture
plastic box	Lock&Lock	N/A	used as humid chamber (any tight closing plastic box that fits the plates can be used)