

Materials List for:

Three-Dimensional (3D) Tumor Spheroid Invasion Assay

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Materials

Name	Company	Catalog Number	Comments
Corning Matrigel basement membrane matrix	 Corning	354234	Keep at 4 °C to prevent solidification and dispense using cooled pipette tips
Cultrex basement membrane extract, PathClear	 Trevigen	3432-005-01	Keep at 4 °C to prevent solidification and dispense using cooled pipette tips
Ultra-low attachment 96-well plate	 Corning	7007	
EGF	 Miltenyi Biotec	130-093-825	Add 100 µl 1% BSA (w/v) in water to 100 µg EGF. To 25 µl of this, add 4,975 µl RHB-A medium to give a 5 µg/ml working stock. Aliquot and store at -20 °C
RHB-A medium	 Stem Cells Inc.	SCS-SF-NB-01	For diluting EGF
DMEM	 GIBCO	31966-021	Warm in 37 °C water bath before use
Fetal bovine serum	 Biosera	1001/500	Heat at 56 °C to inactivate complement before use
TrypLE	 GIBCO	12605	Cell dissociation solution
Celigo cytometer	 Nexcelom Bioscience	n/a	Specialist equipment for image capture and analysis. Manual image capture by microscopy and independent image analysis software is an alternative
IX70 inverted microscope	 Olympus	n/a	Used with camera for manual image capture
Retiga Exi Fast 1394 digital camera	 Qimaging	n/a	Attached to microscope for manual image capture
Image-Pro Plus 7.0	 Media Cybernetics	n/a	Software used to control camera and microscope for manual image capture
Image-Pro Analyzer 7.0	 Media Cybernetics	n/a	Stand-alone image analysis software for manual measurement of spheroid size
Excel 2010	 Microsoft	n/a	Scientific graphing and statistical software
Prism 6.0	 GraphPad	n/a	Scientific graphing and statistical software