

Materials List for:

# Quantification of Breast Cancer Cell Invasiveness Using a Three-dimensional (3D) Model

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URL: <https://www.jove.com/video/51341>

DOI: [doi:10.3791/51341](https://doi.org/10.3791/51341)

## Materials

Name	Company	Catalog Number	Comments
1.5 ml tubes	VWR	CA10011-700	Sterile, disposable
100-mm culture dish BD353003	VWR	CABD353003	Sterile, disposable
15 ml Falcon tube	VWR	CA21008-918	Sterile, disposable
1 ml filtered tips	VWR	10011-350	Sterile, disposable
200 µl filtered tips	VWR	22234-016	Sterile, disposable
20 µl filtered tips	VWR	22234-008	Sterile, disposable
35-mm glass-bottomed Confocal No.1 culture dishes	MatTek Corporation	P35G-1.0-14-C	Precooled before use
Bovine serum albumin (BSA)	BioShop	ALB003.100	Used at 3% for IF
Alexa Fluor 488 Goat Anti-Mouse IgG (H+L) Antibody, highly cross-adsorbed	Life Technologies	A11029	1:250 for IF
Alexa Fluor 568 Goat Anti-Rabbit IgG (H+L) Antibody	Life Technologies	A11011	1:1,200 for IF
Anti-Beta-Catenin	BD Transduction Laboratories	610153	Mouse-monoclonal; Used at 1:100 for IF
Fetal bovine serum (FBS)	Sigma	F1051	Used at 10% (v/v)
Hoechst 33258, Pentahydrate (bis-Benzimidazole) - 10 mg/ml Solution in Water	Life Technologies	H3569	Used at 0.1% (1:10,000 dilution)
InVivo Analyzer Suite	Media Cybernetics		Used for 3D culture imaging (DIC images at 10X and 40X)
Kisspeptin-10 (KP-10)	EZ Biolabs	PT0512100601	Used at 100 nM
Anti-Laminin	Cedarlane	AB19012(CH)	Rabbit-polyclonal full length human; Used at 1:100 for IF
LSM-510 META laser scanning microscope	Zeiss		Used at 63X objective; oil immersion lens
Matrigel phenol red free (BD356237)	VWR	CACB356237	Lot No.2180819; 10.4 mg/ml
Olympus IX-81 microscope	Olympus		Used for 3D culture imaging (DIC images at 10X and 40X)
Penicillin-streptomycin (10,000 U/ml)	Life Technologies	15140-122	Antibiotic (added to media; used at 0.01%)
10 ml pipette	VWR	CA53300-523	Sterile, disposable
RPMI 1640 Medium with Glutamine	Life Technologies	11875-119	Used for culturing of MDA-MB-231 cells

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0.25% Trypsin-EDTA (1x), Phenol Red	Life Technologies	25200-072	Used to trypsinize MDA-MB-231 cells
MEGM (bullet kit): MEBM (CC3151)+Single quotes (CC4136)	Lonza	CC-3150	Used for culturing of MCF10A cells