

Materials List for:

# Non-enzymatic, Serum-free Tissue Culture of Pre-invasive Breast Lesions for Spontaneous Generation of Mammospheres

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## Materials

Name	Company	Catalog Number	Comments
Ethanol	Fisher	A405-P	prepare a 70% solution in Type 1 reagent grade water
18 MΩ-cm water, sterile filtered			sterile filtered, Type 1 reagent grade water
10 cc plastic disposable syringe, sterile	BD	305482	
0.2 μm polyethersulfone (PES) syringe filter, sterile	Thermo Scientific	194-2520	
15 ml polypropylene conical tubes, sterile	Fisher	14-959-49B	
50 ml polypropylene conical tubes, sterile	Fisher	05-539-6	
1.5 ml low retention microcentrifuge tubes, sterile	Fisher	02-681-331	
nutrient medium, DMEM-F12/HEPES	Invitrogen	11330-032	with L-glutamine
Insulin, human recombinant	Roche	11376497001	10 mg/ml stock
Epidermal Growth Factor (EGF), human recombinant	Millipore	GF144	100 μg/ml stock
Streptomycin sulfate	Sigma-Aldrich	S1567	10 mg/ml stock
Gentamicin sulfate	Sigma-Aldrich	G19114	10 mg/ml stock
Filtration flask and filter top, sterile	Millipore	SCGPU02RE	0.22 μm PES membrane
25 ml sterile, disposable pipettes	Fisher	4489	paper-plastic wrapped
10 ml sterile, disposable pipettes	Fisher	4488	paper-plastic wrapped
Tissue marking dyes (black, blue, red, green, yellow and orange)	CDI	MD2000	after opening use only with single-use, sterile cotton tipped applicators, or use once and discard
Cotton tipped applicators, sterile	Fisher	23-400-115	single use only
Gauze pads, 10 x 10 cm, sterile	Fisher	2187	
Plastic transfer pipettes, sterile, disposable	Samco	202-20S	
Vinegar, white distilled	household use		5% acetic acid; after opening use only with sterile pipettes
#10 scalpels, sterile, disposable	Thermo Scientific	31-200-32	
Petri dish, sterile	Fisher	FB0875713A	
TPP 115 cm <sup>2</sup> flask, with removable lid	MidSci	90652	screw cap with filter

CO <sub>2</sub> incubator	Fisher	13-998-074	5% CO <sub>2</sub> , 37 °C, humidified chamber
inverted light microscope	Olympus	IX51	
8 M urea	Fisher	BP169-500	optional, for mass spectrophotometric analysis of cultured cells
2X SDS tris-glycine buffer	Life Technologies	LC2676	optional, for proteomic analysis of cultured cells
Cytocentrifuge	Thermo Scientific	A78300003	optional, for preparing cell smears