

Materials List for

Generating and Imaging Mouse and Human Epithelial Organoids from Normal and Tumor Mammary Tissue Without Passaging

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Materials

Name	Company	Catalog Number	Comments
10 mM HEPES Buffer	Gibco	15630080	
100x Antibiotic-Antimycotic	Gibco	15240-096	
100x Glutamax	Life Technologies	35050-061	Glutamine supplement
100x Insulin-Transferrin-Selenium (ITS)	Life Technologies	51500-056	
100x Penicillin/Streptomycin (Pen/Strep)	Sigma	P4333	
10x DMEM	Sigma	D2429	
50 mL/0.2 µm filter flask	Fisher	#564-0020	
Amphotericin B	Life Technologies	15290-018	
bFGF	Sigma	F0291	
BSA Solution (32%)	Sigma	#A9576	
Cholera Toxin	Sigma	C8052	
CO ₂ -Independent Medium	Gibco	18045-088	
Collagenase A	Sigma	C2139	
Deoxyribonuclease I from bovine pancreas (DNase)	Sigma	D4263	
DMEM with 4500 mg/L glucose, sodium pyruvate, and sodium bicarbonate, without L-glutamine, liquid, sterile-filtered, suitable for cell culture	Sigma	D6546	Common basal medium
D-MEM/F12	Life Technologies	#10565-018	Basal cell medium

Dulbecco's Phosphate Buffered Saline (D-PBS)	Sigma	#D8662	PBS
Fetal bovine serum (FBS)	Sigma	#F0926	
Gentamicin	Life Technologies	#15750-060	
Human epidermal growth factor (EGF)	Sigma	E9644	
Hydrocortisone	Sigma	H0396	
Insulin	Sigma	#I9278	
Matrigel	Corning	#354230	Basement Extracellular Matrix (BECM)
NaOH (1 N)	Sigma	S2770	
Rat Tail Collagen I	Corning	354236	
RPMI-1640 media	Fisher	SH3002701	
Trypsin	Life Technologies	27250-018	