

Materials List for:

A Hormone-responsive 3D Culture Model of the Human Mammary Gland Epithelium

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Materials

| Name | Company | Catalog Number | Comments |
|--|----------------------|------------------------------|---|
| 12-well Tissue Culture Plates (Falcon) | Fisher Scientific | 08-772-29 | |
| 15 ml polystyrene conical Tubes | Fisher Scientific | 14-959-49D | |
| Activated Charcoal | Sigma | C-5510 | |
| Carmine Alum | Sigma | C1022-100G | |
| Collagenase, Type 3 | Worthington | S0C11784 | |
| Confocal Microscope | Zeiss | LSM510 | Equipped with HeNe 633nm laser |
| Dextran T-70 | Abersham/Pharmacia | 17-0280-01 | |
| DMEM/F-12, HEPES, no phenol red | Life Technologies | 11339-021 | Phenol red-free media for hormone use |
| DMEM, low glucose, pyruvate, no glutamine, no phenol red | Life Technologies | 11054-020 | Phenol red-free media for hormone use |
| 17-β-Estradiol | EMD Millipore | 3301 | Dissolved in Ethanol |
| Ethanol | Koptec | V1001 | |
| Fetal Bovine Serum | Hyclone | SH30070.03 | For use with hormones, must be Charcoal Dextran stripped |
| Filters (115 ml) | Nalgene | 380-0080, 245-0045, 120-0020 | 0.88, 0.45, 0.20 micron, respectively |
| Formalin, 10% | Fisher Scientific | SF93-20 | |
| L-Glutamine (200 mM) | Life Technologies | 25030-081 | |
| ICI 182,780 (fulvestrant) | Sigma Aldrich | I4409-25MG | Dissolved in DMSO |
| Microtome | Leica | RM2155 | |
| Tissue embedding media | McCormick Scientific | 39502004 | |
| Penicillin | Sigma | 7794-10MU | Dissolved in 10 ml of distilled deionized water |
| Permunt | Fisher Scientific | SP15-500 | |
| Phosphate Buffered Saline pH 7.4 | Sigma Aldrich | P3813-10PAK | |
| Prolactin | Sigma Aldrich | L4021-50UG | Dissolved in distilled deionized water |
| Promegestone | Perkin Elmer | NLP004005MG | Dissolved in Ethanol |
| Rat-Tail Collagen | Corning | 354236 | Lots may contain varying concentrations, note accordingly |
| Scalpel | Miltex | 4311 | |
| Semi-enclosed Benchtop Tissue Processor | Leica | TP1020 | |
| Sodium Hydroxide | Sigma Aldrich | S5881 | Prepare 1N NaOH stock |
| StaticMaster Anti-static brush | Amstat | C3500 | |

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|--------------------------------|-------------------|-------------|--|
| Stripette Serological Pipettes | Corning | 4101 | |
| T-25 flasks | Corning | 430168 | |
| Tissue Cassettes | Fisher Scientific | 15-200-403E | |
| Wheaton Vials, Glass, 20 ml | Fisher Scientific | 03-341-25D | |
| Xylene | VWR | 95057-822 | |