

Culture Methods to Study Apical-Specific Interactions using Intestinal Organoid Models

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Materials

| Name | Company | Catalog Number | Comments |
|---|----------------------------|-----------------|--|
| Anti-Adherence Rinsing Solution | STEMCELL Technologies Inc. | 7010 | For coating cultureware. Referred as anti-adherent solution into the main text. |
| Conical tubes, 15 mL | STEMCELL Technologies Inc. | 38009 | |
| Corning Matrigel Matrix, Growth Factor Reduced (GFR), Phenol Red-Free | Corning | 356231 | Extracellular matrix (ECM) for maintenance and establishment of organoid lines. |
| Costar 6.5 mm or 12 mm Transwell inserts | STEMCELL Technologies Inc. | 38023/38024 | For 2D Monolayer culture. |
| Costar 24 Well Flat-Bottom, Tissue culture-treated plate | STEMCELL Technologies Inc. | 38017 | For maintenance and establishment of organoid lines. |
| D-PBS (Without Ca ⁺⁺ and Mg ⁺⁺) | STEMCELL Technologies Inc. | 37350 | For washing |
| Dimethyl sulfoxide (DMSO) | Millipore Sigma | D2650 | Reconstitution of small molecules |
| DMEM/F-12 with 15 mM HEPES | STEMCELL Technologies Inc. | 36254 | For washing |
| Gentle Cell Dissociation Reagent (GCDR) | STEMCELL Technologies Inc. | 7174 | For Matrigel removal. Referred as dissociation reagent into the main text. |
| IntestiCult Organoid Growth Medium (Human) | STEMCELL Technologies Inc. | 6010 | For expansion of organoid lines prior to differentiation. Referred as Intestinal Organoid Expansion Medium into the main text. |
| IntestiCult Organoid Differentiation Medium (Human) | STEMCELL Technologies Inc. | 100-0214 | For establishment of monolayers and 3D differentiation. Referred as Intestinal Organoid Differentiation Medium into the main text. |
| Trypsin-EDTA (0.05%) | STEMCELL Technologies Inc. | 7910 | For 2D Monolayer establishment. |
| Y-27632 | STEMCELL Technologies Inc. | 72302 | RHO/ROCK pathway inhibitor, Inhibits ROCK1 and ROCK2. Used for 2D monolayer establishment. |
| Wide bore tips | Corning | #TF-1005-WB-R-S | Organoids handling |