**MEDIA PREPARATION**

AD+ Medium (Filter and Aliquot it in 10 x 50mL)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Item | Catalog number | Lot/Batch | Final Conc | Volume |
| DMEM/F12 + Glutamax | Gibco: 61870-036 | 2193144 | NA | 500 mL |
| BSA | Life #BP1605 | 170764 | 0.1% M/V | 0.5g |
| HEPES | Life #15630-080 | 1976647 | 10 mM | 5mL |
| Pen/Strep | Life: 15140-122 | NA | 100 U/mL | 5mL |

Organoid Growth Media (OGM) for Normal Organoids (DM1)

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | Initial concentration | Final Conc | Dilution | Current buffer | Vol (uL) |
| Advanced DMEM/F12 | Base media | Base media | NA |  | Complete to 250 mL |
| B27 supp | 50X | 1X | 50 | NA | 5000 |
| Wnt surrogate | 5uM | 0.5nM | 10000 | PBS1X | 25 |
| RSPO | 100uG/ml | 50ng/ml | 2000 | PBS1X | 125 |
| Noggin | 200ug/ml | 100 ng/mL | 2000 | PBS1X | 125 |
| NAC | 250mM | 1.25 mM | 200 | water | 1250 |
| Nicotinamide | 1M | 10 mM | 100 | water | 2500 |
| SB202190 | 10mM | 10 uM | 1000 | water | 250 |
| EGF | 1mg/ml | 50 ng/mL | 20000 | PBS1X | 12.5 |
| A83 | 5mM | 0.5 uM | 10000 | DMSO | 25 |
| PGE2 | 10mM | 1 uM | 10000 | DMSO | 25 |
| 10 mM HEPES | 100 x | 1x | 100 | na | 5000 |
| 1× GlutaMAX Supplement (Gibco, cat. no. 35050-038) | 100 x | 1x | 100 | na | 5000 |
| 100 U/ml penicillin-streptomycin (Gibco, cat. no. 15140163) | 100 x | 1x | 100 | na | 5000 |
| decomp FBS | 100% | 10% | 10 | na | 25000 |