**Supplementary Information for**

***Recapitulating Human Cardio-pulmonary Co-development Using Simultaneous Multilineage Differentiation of Human Induced Pluripotent Stem Cells***

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**Supplementary File 1: Media Recipes/Composition**

|  |  |  |  |
| --- | --- | --- | --- |
| **Media** | **Base** | **Cytokines/Growth Factors** | **Final Concentration** |
| **Stage 1: Day 0 - 1** | mTESR Plus | CHIR99021 | 7 μM |
|  | Y27632 | 10 μM |
| **Stage 1: Day 2 – 3** | RPMI 1640 | Y27632 | 10 μM |
| B-27 minus insulin |  |  |
| GlutaMAX (1x) |  |  |
| **Stage 2: Day 4 – 7** | RPMI 1640 | A8301 | 1 μM |
| B-27 complete | IWP4 | 5 μM |
| GlutaMAX (1x) | Y27632 | 10 μM |
| **Stage 3: Day 8 – 14** | RPMI 1640 | CHIR99021 | 3 μM |
| B27 complete | Retinoic acid | 100 nM |
| GlutaMAX (1x) |  |  |
| **Stage 4: Day 15 -17** | RPMI 1640 | CHIR99021 | 3 μM |
| B27 complete | KGF | 10 ng/mL |
| GlutaMAX (1x) | Dexamethasone | 50 nM |
|  | cAMP | 0.1 mM |
|  | IBMX | 0.1 mM |
| **Stage 4: Day 18 onwards** | RPMI 1640 | KGF | 10 ng/mL |
| B27 complete | Dexamethasone | 50 nM |
| GlutaMAX (1x) | cAMP | 0.1 mM |
|  | IBMX | 0.1 mM |