**Online Supplement**

**Fms-like tyrosine kinase 3 is a regulator of the cardiac side population in mice**

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**Supplemental Tables and Figure**

**Supplemental Table 6**

List of compounds and compositions of culture media.

|  |  |  |  |
| --- | --- | --- | --- |
| **Product Name** | **Company** | **Cat. No.** | **Amount** |
|  |  |  |  |
| **Expansion Medium 1 (EM1)**  |  |   |  |
| MEM α GlutaMAX Supplement | ThermoFisher | #32561 | 500 mL |
| Hepes | ThermoFisher | #15630 | 25 mM |
| Penicillin-Streptomycin (P/S) | ThermoFisher | #15140 | 1% |
| Fetal Bovine Serum (FBS) | Hyclone | #SH30071 | 20% |
| Sodium Pyruvate | ThermoFisher |   | 1% |
|  |  |  |  |
| **Expansion Medium 2 (EM2)**  |  |   |  |
| Iscove's Modified Dulbecco's Medium (IMDM) | ThermoFisher | #12440 | 35% |
| Dulbecco's Modified Eagle's Medium (DMEM)/Nutrient Mixture F12 Ham | Millipore-Sigma | #D8437 | 65% |
| Penicillin-Streptomycin (P/S) | ThermoFisher | #15140122 | 1% |
| Fetal Bovine Serum (FBS) | Hyclone | #SH30071 | 3.5%\* |
| L-Glutamine  | ThermoFisher | #25030 | 2 mM |
| L-Glutathione reduced | Merck | #G6013 | 0.2 nM |
| B27 Supplement | ThermoFisher | #17504044 | 1.3% |
| Recombinant Murine Cardiotrophin-1  | Peprotech | #250-25 | 0.65 ng/mL |
| Thrombin | Diagontech AG, CH  | #100-125 | 0.0005 U/mL |
| Recombinant Human Epidermal Growth Factor (EGF) | Peprotech | #AF-100-15 | 6.5 ng/mL |
| Recombinant Basic Fibroblast Growth Factor (FGF) | Peprotech | #AF-100-18B | 13 ng/mL |
|  |  |  |  |
| **Smooth muscle differentiation medium (SMD)** |  |   |  |
| Iscove's Modified Dulbecco's Medium (IMDM) | ThermoFisher | #12440 | 35% |
| Dulbecco's Modified Eagle's Medium (DMEM)/Nutrient Mixture F12 Ham | Merck | #D8437 | 65% |
| Penicillin-Streptomycin (P/S) | ThermoFisher | #15140122 | 1% |
| Fetal Bovine Serum (FBS) | Hyclone | #SH30071 | 3.5%\* |
| L-Glutamine  | ThermoFisher | #25030 | 2 mM |
| L-Glutathione reduced | Merck | #G6013 | 0.2 nM |
| B27 Supplement | ThermoFisher | #17504044 | 1.3% |
| Recombinant Murine Cardiotrophin-1  | Peprotech | #250-25 | 0.65 ng/mL |
| Thrombin | Diagontech AG, CH  | #100-125 | 0.0005U/mL |
| Recombinant Human Platelet-Derived Growth Factor BB (PDGF-BB)  | Peprotech | #100-14B | 10ng/mL |
|  |  |  |  |
| **Endothelial differentiation medium (EGM2)** |  |   |  |
| Fibronectin | Merck | #F4759 | 10 µg/mL |
| EGM-2 Endothelial Cell Growth Medium-2 BulletKit, containing:  | Lonza | #CC-3162 |   |
| 1. EBM-2 Endothelial Cell Growth Basal Medium-2
 | Lonza | #CC-3156 |  500mL |
| 1. EGM-2 Endothelial SingleQuots kit, containing:
 | Lonza | #CC-4176 |  |
| Fetal Bovine Serum (FBS) |  |   | 2% |
| Human epidermal growth factor (hEGF) |  |   | 0.5mL |
| Vascular endothelial growth factor (VEGF)  |  |   | 0.5mL |
| R3-Insulin like growth factor (R3-IGF-1) |  |   | 0.5mL |
| Ascorbic acid  |  |   | 0.5mL |
| Hydrocortisone |  |   | 0.2mL |
| Human Fibroblast growth factor-basic (hFGF-β) |  |   | 2mL |
| Heparin |  |   | 0.5mL |
| Gentamicin/Amphotericin-B |  |   | 0.5mL |

\*lowered to 0.1% during 24 hours for lineage induction.