**Supplementary Table1** The components of the medium

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| --- | --- |
| Cell type | Medium Components |
| ESCs | DMEM (43.5ml) + FBS (15ml) + Gentamicin (100μl) + β-mercaptoethanol (0.2μl) + non-essential amino acids (200μl) + chicken serum (1ml) + SCF (100μl) + bFGF (100μl) + LIF (100μl) + Penicillin (500μl) |
| PGCs | DMEM (43.5ml) + FBS (15ml) + Gentamicin (100μl) + β-mercaptoethanol (0.2μl) + non-essential amino acids (200μl) + chicken serum (1ml) + SCF (100μl) + bFGF (100μl) + LIF (100μl) + Penicillin (500μl) + IL11(100μl) |
| SSCs | DMEM (43.5ml) + FBS (15ml) + Gentamicin (100μl) + β-mercaptoethanol (0.2μl) + non-essential amino acids (200μl) + chicken serum (1ml) + SCF (100μl) + bFGF (100μl) + LIF (100μl) + Penicillin (500μl) + GDNF (100ul) |