**Table S3** Formula of buffer in this study

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| **BUFFER** | **FORMULA** |
| Storage buffer | NaCl, KCl, Na2HPO4, KH2PO4, CaCl2, MgCl2, Sodium pyruvate, Penicillin, Streptomycin, New-born calf serum, Heparinase |
| Culture medium | TCM199, NaHCO3, Sodium pyruvate, FSH, LH, FGF, E2, Cysteamine, Sodium lactate, Fetal cafl serum |
| Swimming up buffer | NaCl, KCl, Na2HPO4, KH2PO4, CaCl2, MgCl2, Sodium pyruvate, Penicillin, Streptomycin, Lysine, Phenol red, Hepes, BSA, Sodium lactate |
| Fertilization buffer | NaCl, KCl, Na2HPO4, KH2PO4, CaCl2, MgCl2, Sodium pyruvate, Penicillin, Streptomycin, Lysine, Phenol red, BSA, Sodium lactate, Heparinase |
| Embryo culture solution | TCM199, NaHCO3, Sodium pyruvate, Fetal cafl serum |