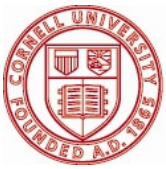


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# Product Information Sheet – Validated iPS Line 1-A4

**Description:** Each vial of cells contains approximately $1x10^6$ iPS cells, stored frozen in 1mL cryopreservation solution (60% DMEM, 20% FBS, 20% DMSO). The iPS cells were generated from C57BL/6x129 MEFs infected with lentiviral vectors encoding doxycycline inducible reprogramming factors Oct 4, Sox 2, Klf 4, and c-Myc. The MEFs were also infected with a virus encoding the reverse tetracycline transactivator RTTA. iPS line 1-A4 has been validated for pluripotency. These cells are positive for alkaline phosphatase expression, Nanog, endogenous Oct 4 and Sox 2, can form embryoid bodies and differentiate in-vitro, and can differentiate in-vivo as demonstrated by their ability to form teratomas when injected subcutaneously into SCID mice and generate germline chimeras through blastocyst injection.

**Storage:** For short term storage (1-2 weeks), -80°C is suitable. For long term storage, store in liquid nitrogen. Long term storage at -80°C may result in a loss of viability.

**Recovering your cells from Cryopreservation:** Place the frozen vial of cells in a 37°C water bath until contents are just thawed (2-3 minutes). Sanitize the vial by spraying with 70% ethanol, and quickly transfer the contents of the vial to a tube containing 3mL pre-warmed MEF media (DMEM + 10% FBS, 1x PenStrep), and centrifuge at 300g for 3 minutes. Aspirate the media, taking care not to disturb the cell pellet which, and resuspend the pellet in ES cell media containing LIF.

**Plating Recommendation:** iPS cells should be plated onto gelatinized tissue culture plates prepared with mitotically inactivated feeders and allowed to attach in a 37°C, 5% $CO^2$ incubator. Change media daily. Each vial of iPS cells should reach confluence within 48 hours of being plated to a 35mm tissue culture dish. Do not allow iPS cells to become over-confluent. Split iPS 1:3 – 1:5 every 2-3 days onto fresh feeders.

**Price:** $200 per vial.