Supporting information



<CAPT>Figure S1 Representative NMR spectrum of plain SOF medium. Here, 18 µl of plain SOF medium was diluted in 612 µL of 100% deuterium oxide (D₂O) prepared with 25 mmol/l sodium phosphate buffer (Na₂HPO₄) and with 0.1 mmol/l TSP [sodium 3-(trimethyl-2,2,3,3)-1-propionic acid d₄]. Analysis was performed on a 600 MHz Bruker NMR spectrometer. Ileu, isoleucine; Leu, leucine; Val, valine; Thr, threonine; Lact, sodium DL-lactate; Ala, L-alanine; Ace, acetate; Meth, methionine; Glut, L-glutamic acid; Pyr, sodium pyruvate; Lys, lysine; Arg, arginine; Gly, glycine.



<CAPT>Figure S2 Representative NMR spectrum of SOF medium culturing a slow growing blastocyst (192 hpf). Here, 18 μ l of plain SOF medium was diluted to 612 μ l of 100% deuterium oxide (D₂O) prepared with 25 mmol/L sodium phosphate buffer (Na₂HPO₄) and with 0.1 mmol/L TSP [sodium 3-(trimethyl-2,2,3,3)-1-propionic acid d₄]. Analysis was performed on a 600 MHz Bruker NMR spectrometer. Ileu, isoleucine; Leu, leucine; Val, valine; Thr, threonine; Lact, sodium DL-lactate; Ala, L-alanine; Ace, acetate; Meth, methionine; Glut, L-glutamic acid; Pyr, sodium pyruvate; Lys, lysine; Arg, arginine; Gly, glycine.

Table S1 Embryo scoring system used for embryo selection as adapted from Puissant *et al.*, 1987; Steer *et al.*, 1992; Farin *et al.*,1995; Gardner *et al.*, 2000)

Grade	Description
1	Even blastomeres, homogenous cytoplasm, ICM (numerous and tightly packed cells), trophectoderm well organized with
	many cells
2	Homogenous cytoplasm, uneven blastomeres (less than one-third difference in size), ICM (numerous and tightly packed
	cells), trophectoderm well organized with many cells
3	Homogenous cytoplasm, uneven blastomeres (less than one-third difference in size), ICM (loosely packed cells),
	trophectoderm few cells in epithelium
4	Uneven blastomeres (more than one-third difference in size), cytoplasm heterogenous, ICM with several, loosely packed
	cells, trophectoderm with several cells in look epithelium
5	Uneven blastomeres (more than one-third difference in size), fragmentation (less than one-third of embryonic surface, ICM
	with few cells, trophectoderm with few cells
6	Uneven blastomeres (more than one-third difference in size), cytoplasm heterogenous, fragmentation (more than one-third of
	embryonic surface), ICM small or unidentifiable, trophectoderm with few cells