

Supplementary

**Table S1** Qualification of GMP-compatible iPSC cryo-banks

Attribute	Test	Method	Acceptance criteria	SCB	MCB	WCB
Identity	Cell morphology	Microscopy	Compact hESC-like colonies with distinct borders, high nucleus to cytoplasm ratio, and prominent nucleoli	●	●	●
	Surface markers	Flow Cytometry	SSEA4+>80%, Tra-1-81+>80%	●	●	●
	Pluripotent markers	Immuno-cytochemistry	OCT4+>80%, NANOG+>80%	●	●	●
Viability	STR	STR profiling	Identical to donor cells	●	●	●
	Viability	Dye exclusion cell counting	>60%	●	●	●
	Doubling time	Serial passaging	Constant population doubling time.	●	●	●
Genetic stability	Karyotype	G-banding	Normal diploid	●	●	●
	Residual vector testing	PCR	Negative	●	●	○
	Cancer gene mutation	WGS/WES	Negative	○	● (WGS)	● (WES)
Potency	Pluripotency	Teratoma formation	Demonstration of tissues from all three germ layers	○	●	○
Microbiological safety	Bacteria	Culture	Negative	●	●	●
	Fungi	Culture	Negative	●	●	●
	Mycoplasma	PCR or pharmacopeial methods	Negative	●	●	●
	Virus	Pharmacopeial methods	Negative	○	●	○
	Endotoxin	Pharmacopeial methods	<0.5 EU/mL	●	●	●