VivaCell
XP BioMed brand

Cell Cryopreservation Solution 3

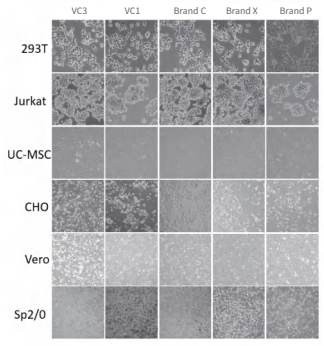
- **High Viability:** Consistent high post-thaw viability
- **Proprietary formulation:** Animal- and protein-free, ultra-low endotoxin
- **Broad-spectrum:** Suitable for various cell lines
- **High-density:** Supports high-density cryopreservation (1×10^7 cells/mL)

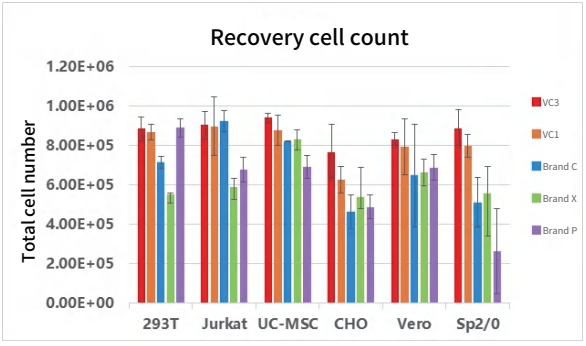
Performance

Post-Thaw Validation

Six cell lines at $1x10^6$ cells/mL were cryopreserved in Cell Cryopreservation Solution 3 (VC3) in vaporphase liquid nitrogen for 14 days.

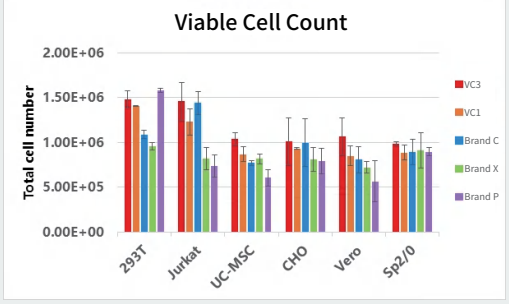
Under light microscopy, cells cryopreserved in VC3 exhibit excellent condition and extremely high post-thaw recovery rates.





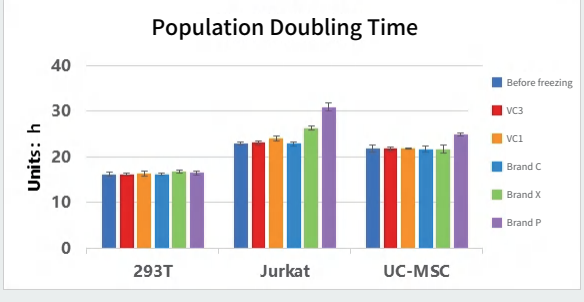
※Recovery cell count: viable cell count immediately after thawing.

VC3 yields extremely high post-thaw viability and generally better than competitors.



※Viable Cell Count: viable cell count measured one day after thawing.

Population doubling times in VC3 showed minimum variation. It proves that VC3 did not change cell functionality after thawing.

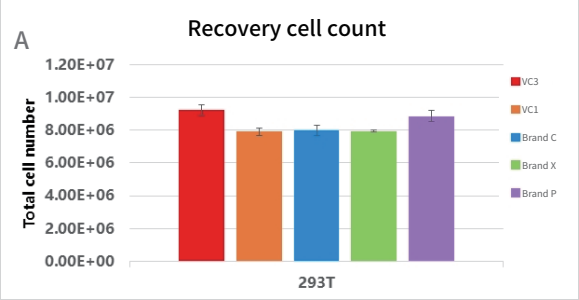


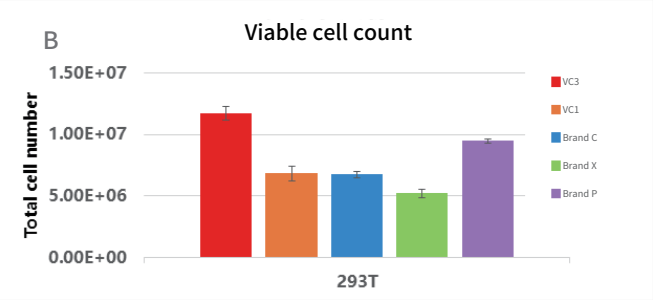
※Population doubling time is the time required for a cell population to double in number, a key parameter for measuriing cell proliferation capacity.

Long-term Cryopreservation and Thawing

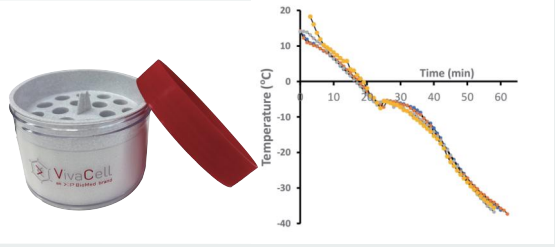
293T cells at 1×10^7 cells/mL were cryopreserved in vapor-phase liquid nitrogen for 8 months and then thawed.

VC3 demonstrates outstanding performance in both recovery and viability after long-term cryopreservation and supports high-density cryopreservation. At $1x10^7$ cells/mL, it proves its excellent capability to support high-density cryopreservation.





CryoFreeze Freezing Container



※VC3 combined with the CryoFreeze freezing container ensures a stable cooling rate of 1°C/min. VC3 with the CryoFreeze freezing container can be placed directly from room temperature into a -80°C freezer, achieving programmed cooling in a simple and economical manner.

Application(only a partial list is provided)

Cell Type	Cell Line	Description
Immune	Hd11	Chicken macrophages
	RAW 264.7	Mouse monocytic macrophage leukemia cell
	J774A.1	Mouse monocytes
	Jurkat	T lymphoblast
Nerve	BV2	microglial cell
	N2A	Mouse neuroblastoma cell
Stem	UC-MSC	Umbilical cord-derived mesenchymal stem cells
Primary	Primary Cardiac Myocyte	Primary Cardiac Myocyte
	Primary Skin Fibroblasts	Primary Skin Fibroblasts
Immortal	ATDC5	Mouse chondrocytes
	C2C12	Mouse myoblast
	H9C2	Immortal rat embryonic heart myoblast
	293T	Human renal epithelial cell
	CHO	Chinese hamster ovary cells
	Vero	African green monkey kidney cells
Tumor	Caco-2	Human adenocarcinoma enterocyte
	MDA-MB-231	Human breast cancer cell
	Sp2/0	hybridoma: b lymphocyte

**The cell culture data are the results of our laboratory tests and are provided for reference only*

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