



OptiVidro® Serum-free Cell Cryopreservation Medium

OptiVibro[®]

Serum-free Cell Cryopreservation Medium

Product overview

OptiVibro[®] Serum-free Cell Cryopreservation Medium is designed for mammalian cell cryopreservation at ultra low temperatures (-80°C to -196°C) with ready-to-use. The medium maximizes post-thaw cell recovery and viability, with the perfect replacement for cryopreservation containing serum.

Product features

- Serum-free and animal-component free
- High post-thaw viability and recovery
- The cryopreservation of multiple human and animal cell types
- Ready-to-use

Product	Contains	Cell Types	Area of Interest
OptiVibro [®] Serum-free Cell Cryopreservation Medium	Protein and 10%DMSO	Multiple mammalian cells	Universal
OptiVibro [®] Protein-free, CD Cell Cryopreservation Medium	10%DMSO and protein-free		Free of external pollution
OptiVibro [®] DMSO-free Cell Cryopreservation Medium	DMSO-free and protein-free	Stem cells and other adherent cells	Stem cell cryopreservation
OptiVibro [®] Serum-free Cell Cryopreservation Medium UC04	7.5%DMSO and protein-free	Immune cells and other mammalian cells	Safety for cell therapy

Product information

Catalog NO.	Size	Product	Shelf life
VUC00-N011	100mL	OptiVibro [®] Serum-free Cell Cryopreservation Medium	2-8°C, 18months
UC000-N011	100mL	OptiVibro [®] Protein-free, CD Cell Cryopreservation Medium	2-8°C, 18months
UC000-N031	100mL	OptiVibro [®] DMSO-free Cell Cryopreservation Medium	2-8°C, 12months
UC000-N056	100mL	OptiVibro [®] Serum-free Cell Cryopreservation Medium UC04	2-8°C, 18months

* Provide customized services

01

OptiVibro® Serum-free Cell Cryopreservation Medium Cat# VUC00-N011



Contain protein

Universal

Non-programmable

Long-term cryopreservation

High post-thaw viability and recovery, comparable to the cryopreservation containing serum

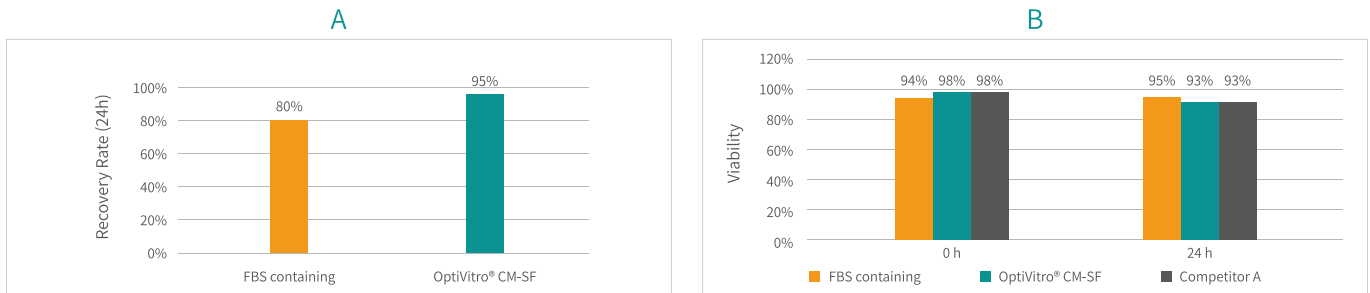
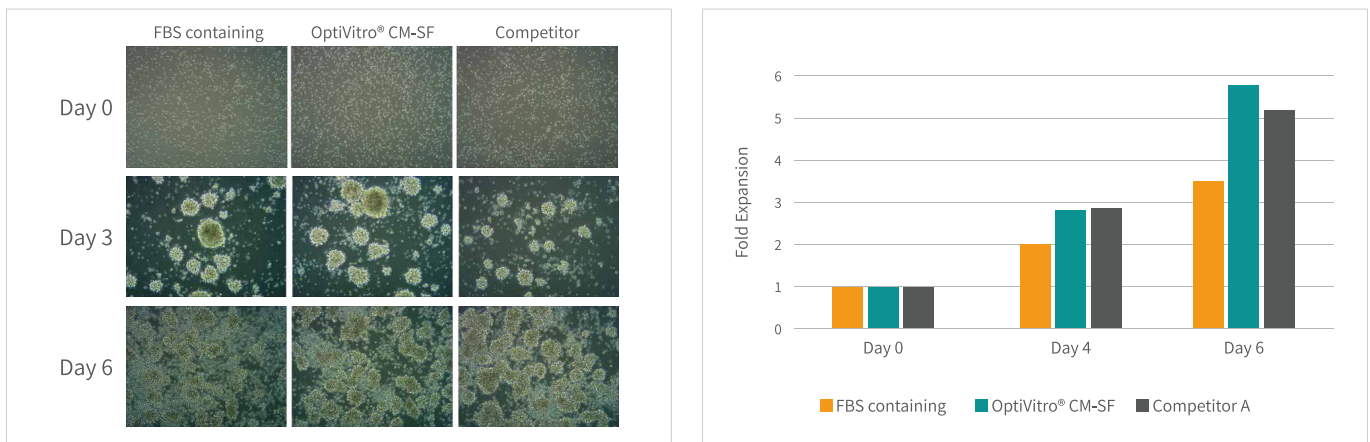


Figure A. The cryopreservation maximizes post-thaw recovery rate up to 95% for PBMC

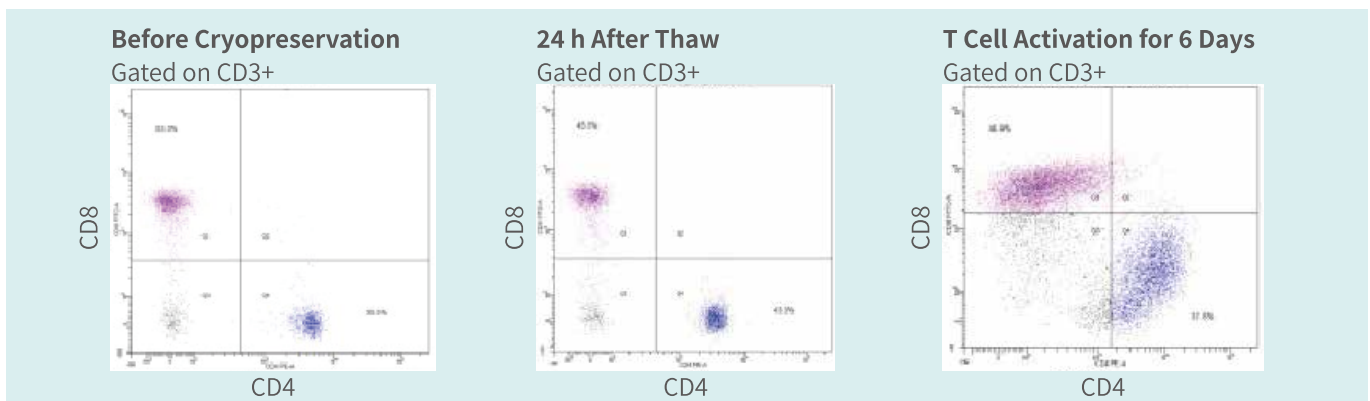
Figure B. The cryopreservation maximizes post-thaw viability up to 90% for PBMC

Not injure cell efficiency, maintain cells activity and function



A. Cell morphology of T cells after activation on day 0, 3, 6

B. Cell proliferation of T cells after activation



C. Detection of CD4 and CD8 expression in CD3+ T cells by flow cytometry

Figure A. T cells grow normally after PBMC is activated by CD3/CD28

Figure B. T cells expanded well after PBMC activated

Figure C. The expression of CD4 and CD8 in CD3 cells is normal after thawing T cells

Long-term cryopreservation, maintaining a high cell recovery rate

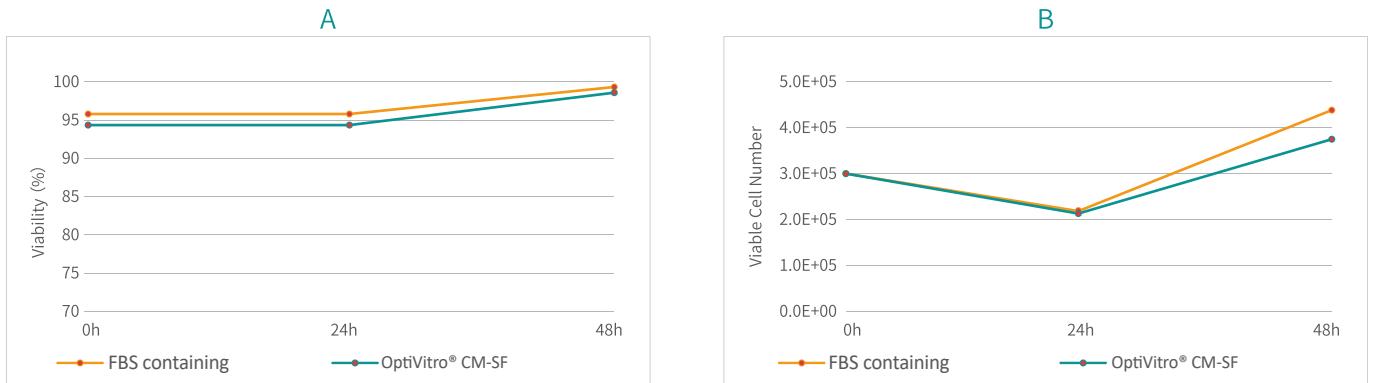


Figure A. The cell viability is consistent with the cryopreservation containing serum for 15 months of storage

Figure B. The proliferation is no different from the cryopreservation containing serum after thawing

02 OptiVidro® Protein-free, CD Cell Cryopreservation Medium
Cat# UC000-N011



- Protein-free
- Animal component-free
- Non-programmable
- Long-term cryopreservation

Protein-free, the performance is still comparable to the cryopreservation containing serum

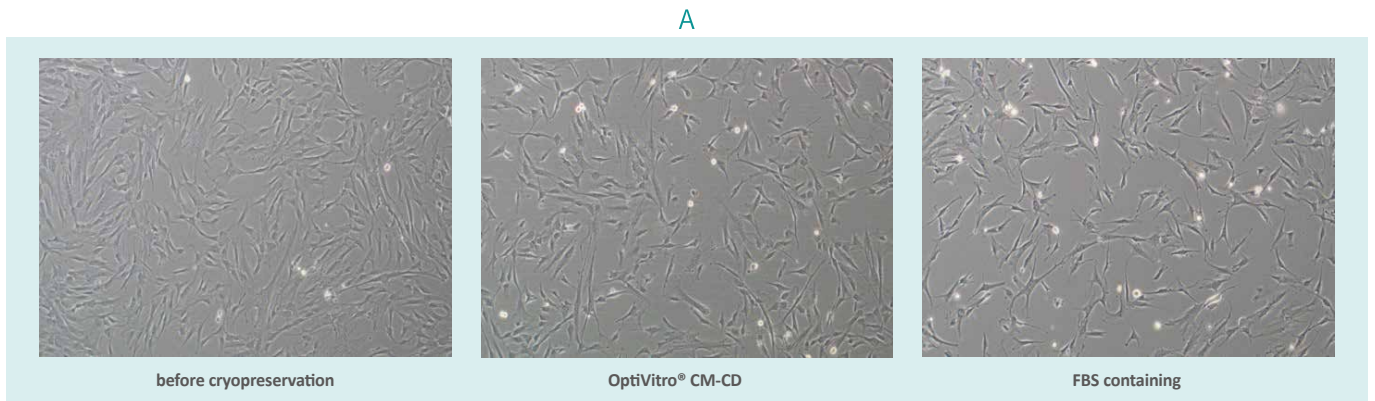


Figure A. The morphology of MSC is consistent with serum-containing cryopreservation after thawing

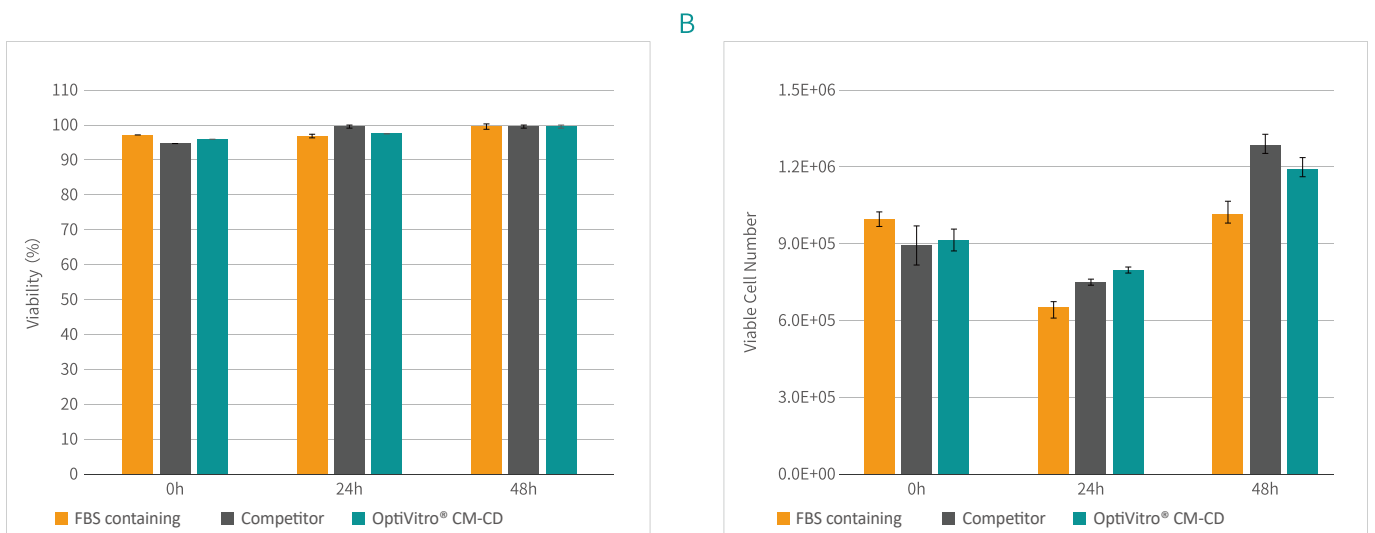


Figure B. The viability of MSC is up to 95% on 0h, 24h, and 48h after thawing, and the performance is not inferior to competitor

Long-term cryopreservation still maintains cells high recovery and viability

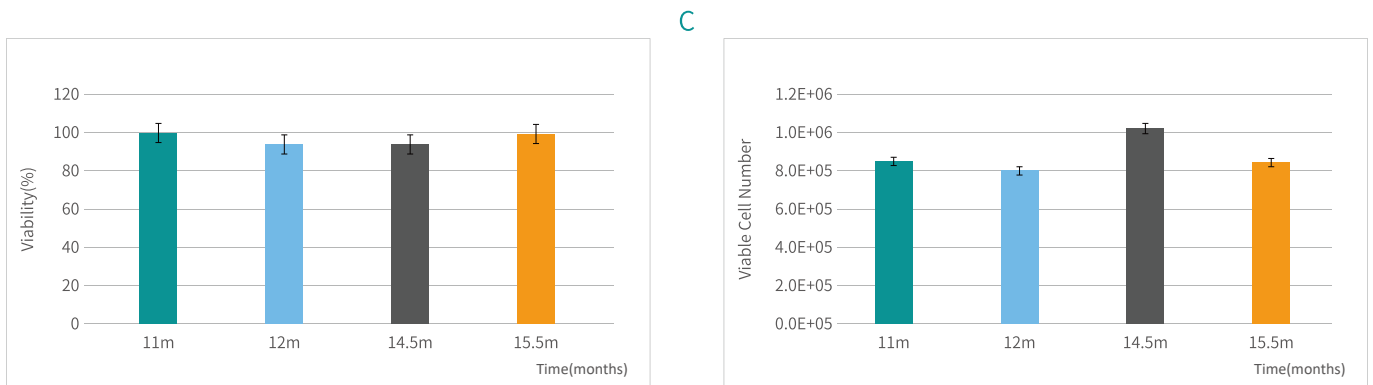


Figure C. The frozen MSC were thawed after 11, 12, 14.5 and 15.5 months, and kept high recovery and viability

03 OptiVtro® DMSO-free Cell Cryopreservation Medium Cat# UC000-N031



DMSO-free

Low cytotoxicity

Stem cell cryopreservation

DMSO-free, the performance is still comparable to the cryopreservation containing serum

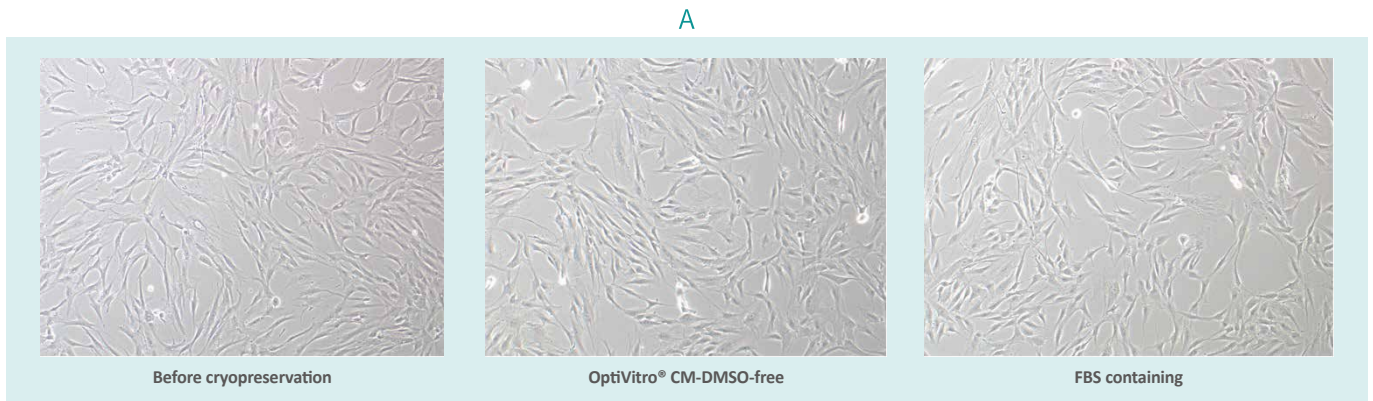


Figure A. The morphology of MSC is consistent with the cryopreservation containing serum after thawing

The cell viability and proliferation is comparable to serum-containing cryopreservation

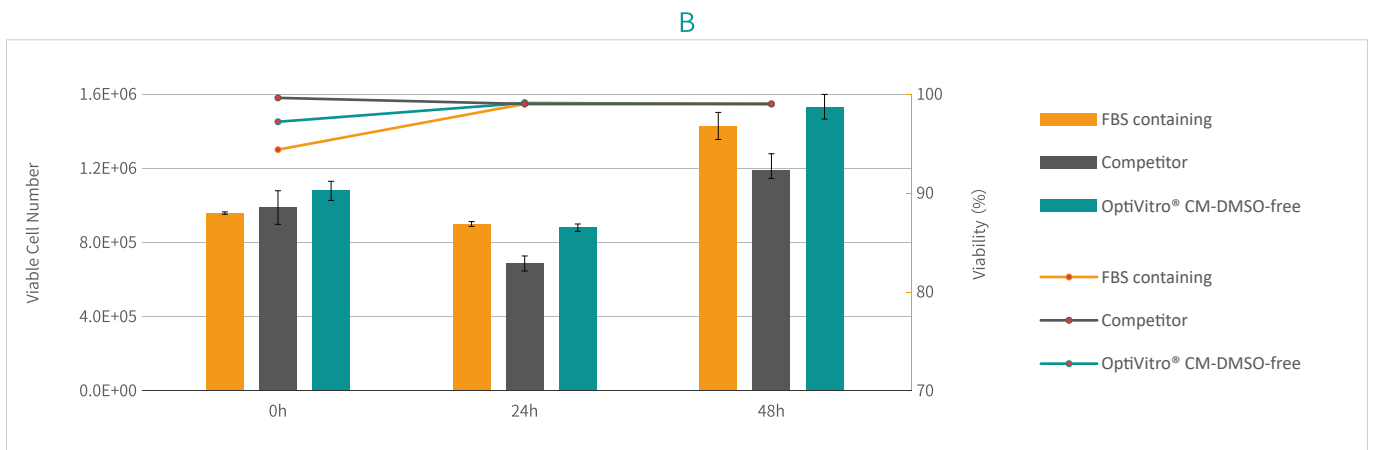


Figure B. The viability of MSC is up to 95% on 0h, 24h, and 48h after thawing, and the performance is not inferior competitor

04

OptiVtro® Serum-free Cell Cryopreservation Medium UC04
Cat# UC000-N056



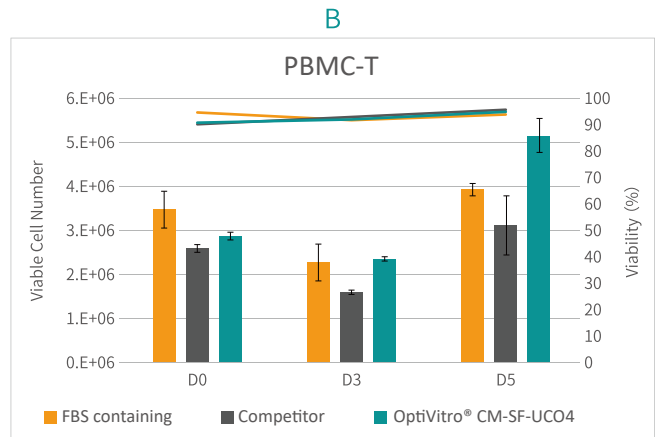
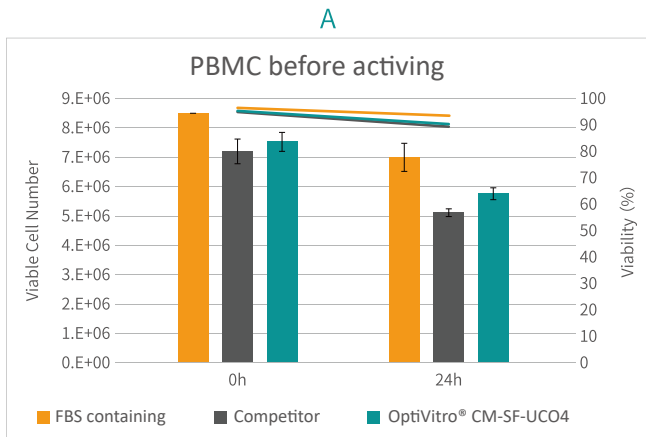
Protein-free

Low DMSO

Cell therapy

High efficiency on cryopreservation , More safety in therapy

The cryopreservation protects PBMC from injury after thawing, while keeping cells viability and function



* Cryopreservation density: 8x10⁶ cells/mL

Figure A. PBMC maintain cell high recovery and viability after thawing

Figure B. PBMC can achieve good activation of T cells after thawing

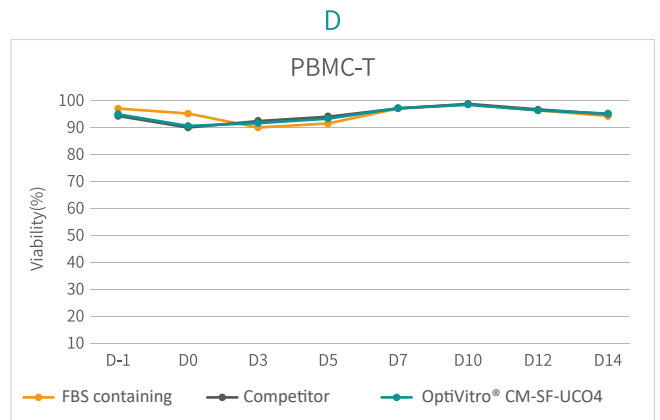
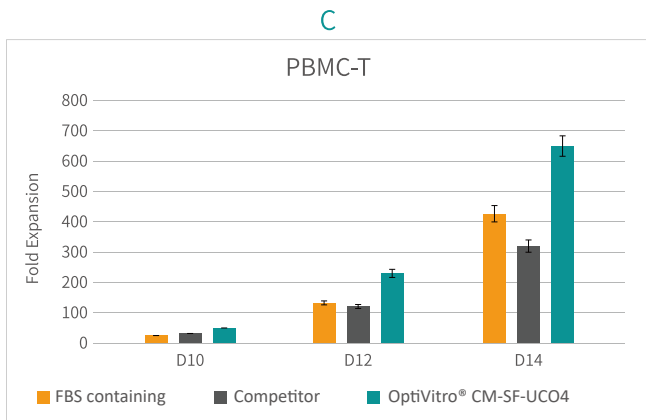


Figure C. T cells activated from frozen PBMC proliferate well after thawing PBMC

Figure D. T cells activated from frozen PBMC maintain high viability growth after thawing PBMC

E

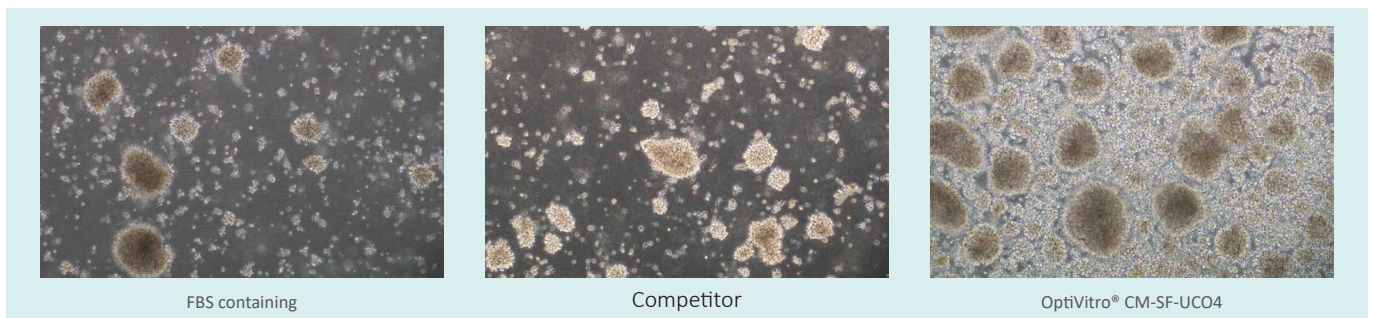
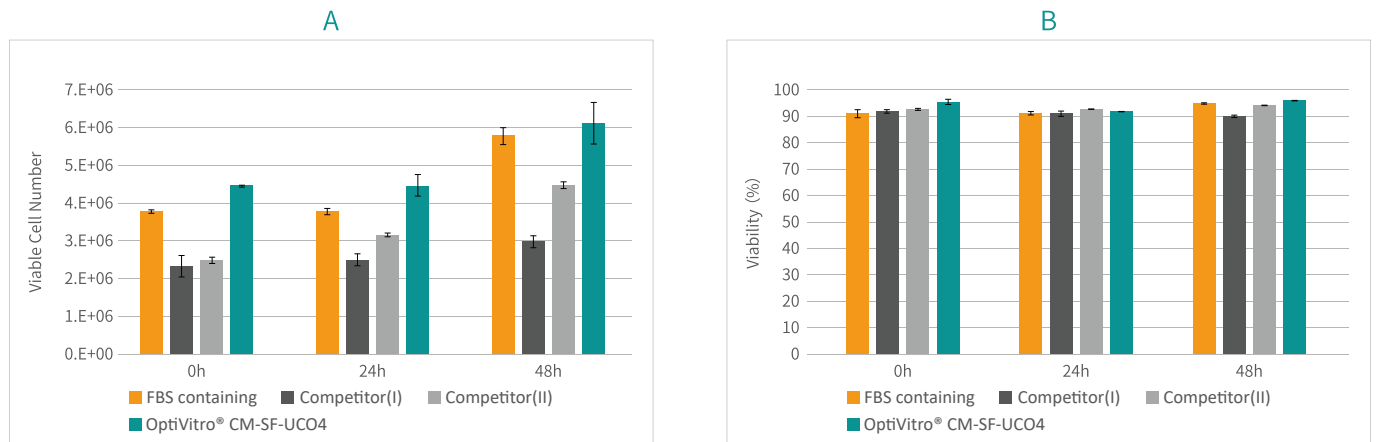


Figure E. Normal morphology of T cells activated from frozen PBMC

NK cells maintain high viability and proliferation after thawing

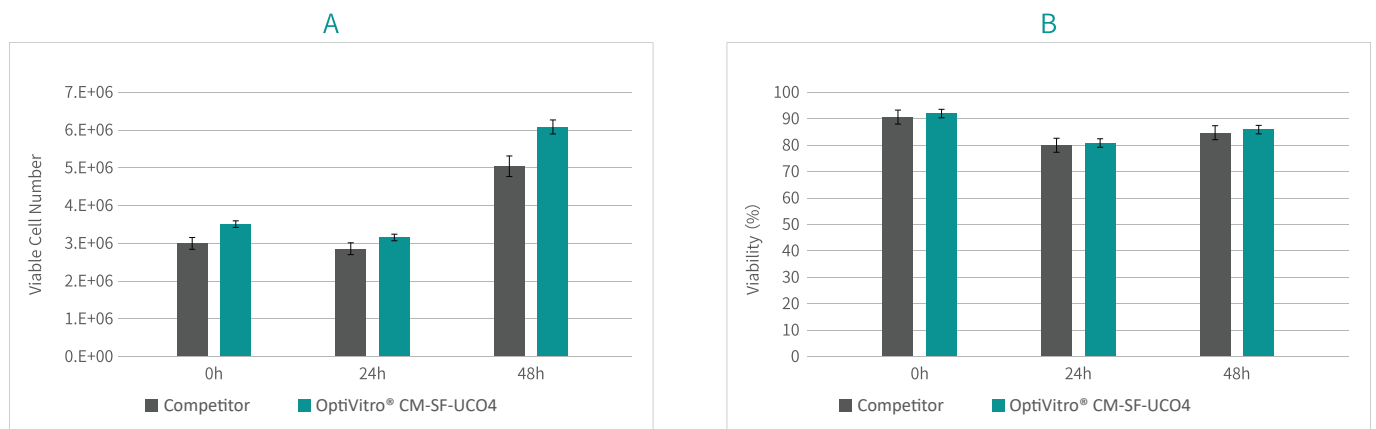


* Cryopreservation density: 4.5×10^6 cells/mL

Figure A. NK cells recovery rate is comparable to serum-containing cryopreservation

Figure B. NK cells maintain high viability after thawing

T cells maintain high viability and proliferation after thawing



* Cryopreservation density: 3×10^6 cells/mL

Figure A. T cells can achieve a high recovery rate and expansion

Figure B. T cells maintain high viability after thawing

High density frozen immune cells, and maintain high vitality after thawing (Frozen density: 1×10^8 cells/mL)

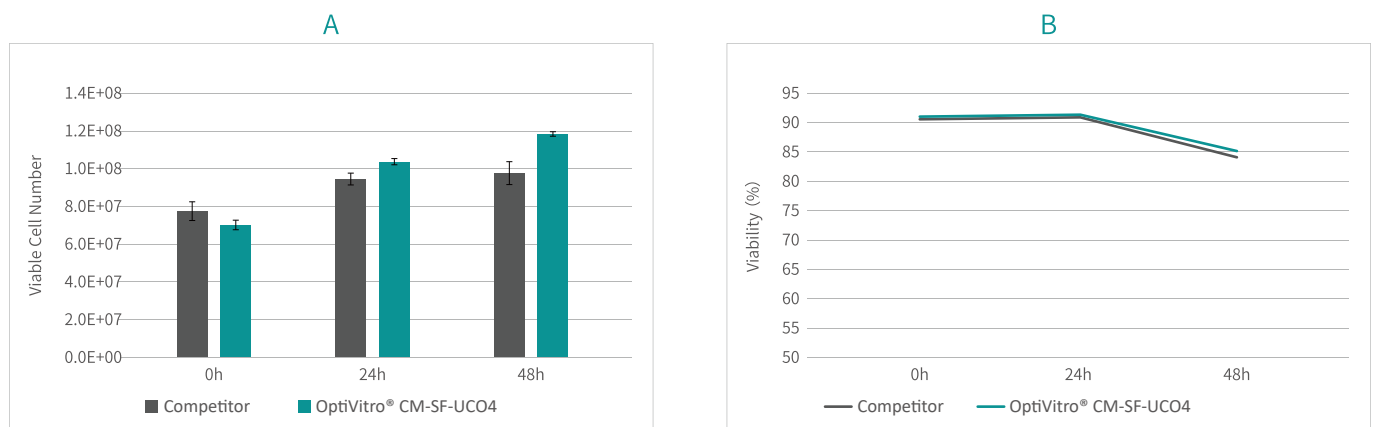


Figure A. After the recovery of high-density frozen NK cells, the recovery rate is not inferior to competitor

Figure B. High-density frozen NK cells still maintain high viability after recovery



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