



GMP-Grade



OptiViro[®] Serum-free Cell Cryopreservation Medium UC04

DMF Registered

Protein-free

Low DMSO (7.5%)

Preferred for cellular therapy

Efficient Cryopreservation Ensures Safety and Reliability

PRODUCT OVERVIEW

OptiVtro® Serum-Free Cell Cryopreservation Medium is a ready-to-use solution designed for the low-temperature cryopreservation of mammalian cells. It eliminates the need for additional preparation, ensures high cell recovery and viability post-thawing, and serves as an ideal replacement for traditional serum-containing cryopreservation media.

PRODUCT FEATURES

- **Safe:** Serum-free, free of xenogeneic animal components, and chemically defined.
- **Efficient:** High cell recovery rates (>90% for multiple cell types).
- **Wide-use:** Suitable for cryopreserving various human and animal cells.
- **Convenient:** Ready-to-use, no additional preparation required.
- **Simple:** Compatible with both non-programmable freezing and -80°C storage.

PRODUCT DATA

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

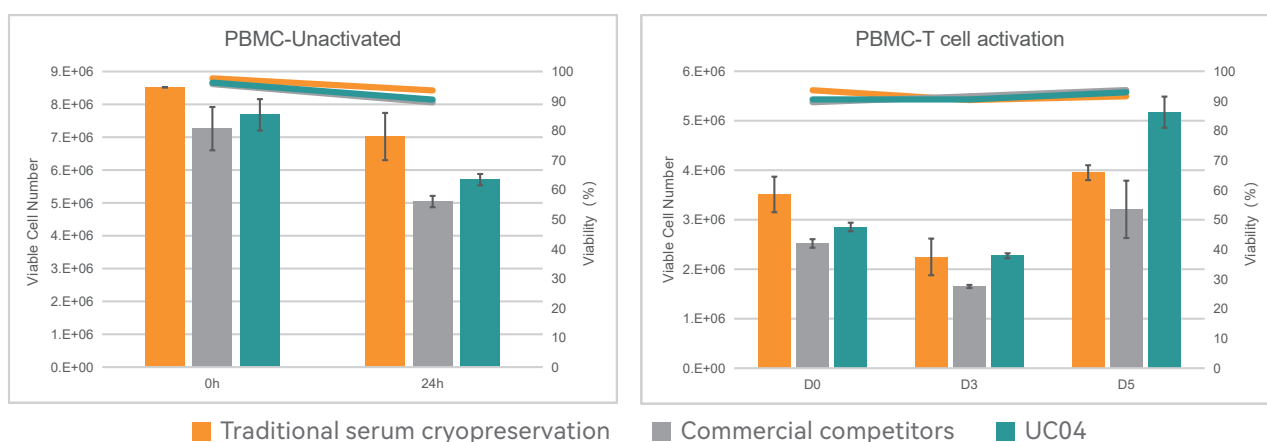


Figure A: Recovery Cell Count and Viability of PBMCs Cryopreserved with Optivtro® Serum-free Cell Cryopreservation Medium UC04 and Activated as T Cells.

*PBMCs were stored in liquid nitrogen for over 72 hours and then thawed. The initial cell count was 8×10^6 . Cells were counted at 0h, 24h, Day 3 (D3), and Day 5 (D5) to assess cell proliferation and viability.

2. UC04 is suitable for peripheral blood mononuclear cells (PBMCs) from different donors

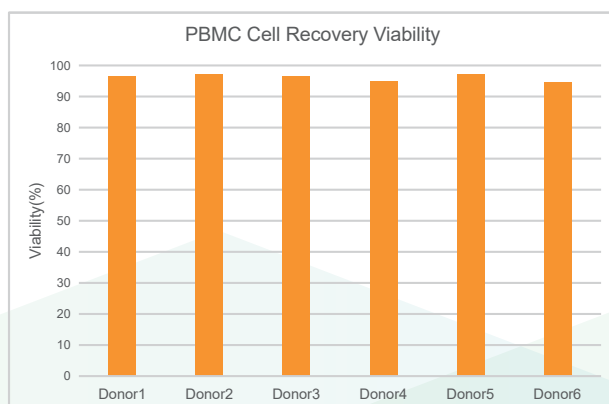


Figure B: Viability of PBMCs from Different Donors Thawed after Cryopreservation with Optivtro® Serum-free Cell Cryopreservation Medium UC04.

*PBMCs were stored in liquid nitrogen for over 72 hours and then thawed. The initial cell count was 8×10^6 , and cell viability was assessed at 0 hours post-thaw.

3. UC04 cryopreserved and recovered T cells maintain high viability and rapid proliferation capacity

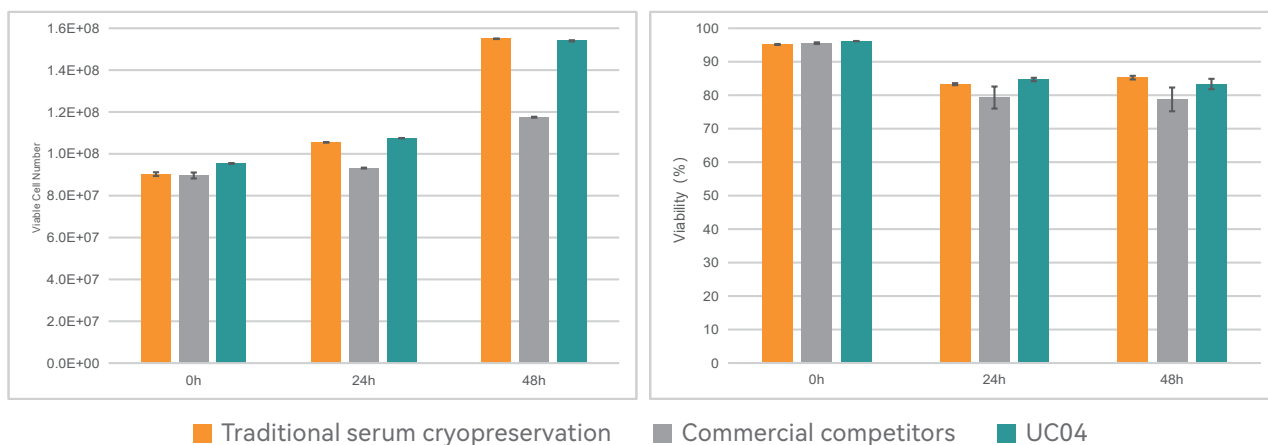


Figure C: Recovery Cell Count and Viability of T Cells Cryopreserved at High Density with OptiVibro® Serum-free Cell Cryopreservation Medium UC04.

*T cells were stored in liquid nitrogen at a concentration of 1×10^8 cells/mL for over 72 hours and then thawed. Cell counts and viability were assessed at 0h, 24h, and 48h post-thaw to determine the total viable cell count and cell viability.

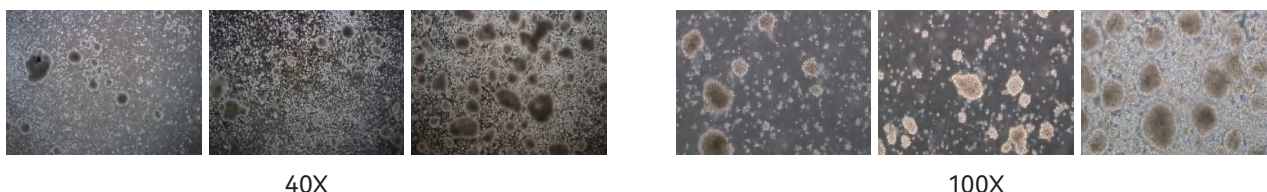


Figure D. Morphological characteristics of PBMC cells activated into T cells on D5 after cryopreservation

A. Traditional serum-containing cryopreservation solution; B. Commercial competitor III (three); C. OptiVibro® serum-free cell cryopreservation solution UC04

4. High-density cryopreservation of immune cells (density: 1×10^8 cells/mL) maintains high viability after thawing

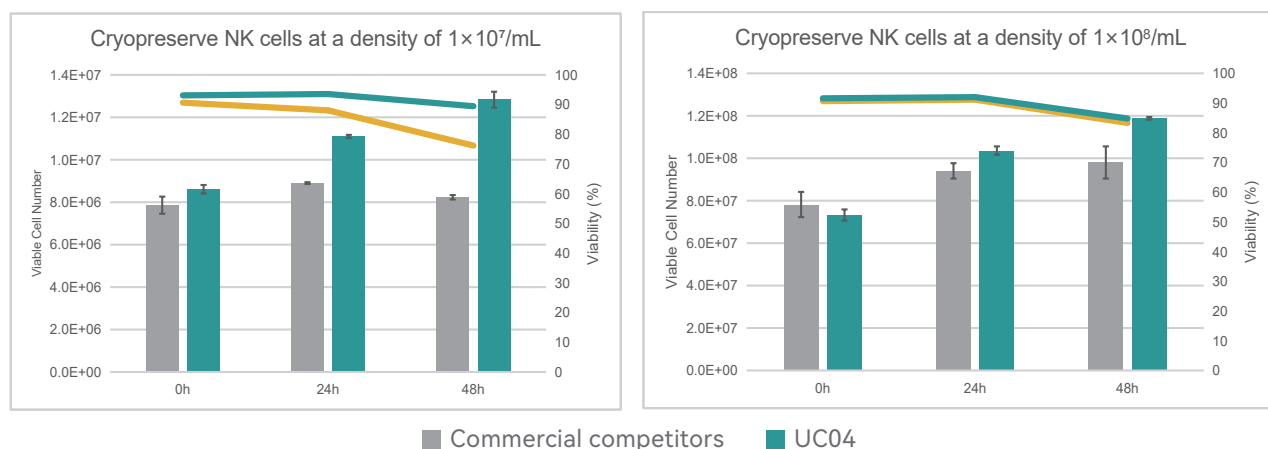


Figure E. Cryopreservation of Natural Killer (NK) Cells at High Density Using OptiVibro® Serum-Free Cell Cryopreservation Solution UC04: Post-Thaw Cell Recovery and Viability Rate.

*NK cells were cryopreserved in liquid nitrogen for over 72 hours, then subjected to cryopreservation recovery. The total number of viable cells and viability rate were enumerated and calculated at 0 hours, 24 hours, and 48 hours post-recovery, respectively.



Product Information

| Catalog Number | Specification | Product Name | Storage Conditions |
|----------------|---------------|---|--------------------|
| UC000-N056 | 100mL | OptiVibro® Serum-Free Cell Cryopreservation Medium Uc04 | 2-8°C, 24 months |



Your Cell, Our Culture

Suzhou ExCell Biotechnology Co., Ltd.

+86 021 3367 6611

globalsales@excellbio.com

www.excellbio-artica.com



Scan the Code