



Cryopreservation Media

| 세포 유형별 맞춤형 Cryopreservation Media
| Platform for Biological Samples

Ice Controlling Technology

For a Better Life

Catalog Products

01 For Immune Cells

- PBMC Cryopreservation Medium** CS-PM-D1 100mL/bottle
 For the cryopreservation of PB- and CB- derived mononuclear cells and buffy coats
- Immune Cell Cryopreservation Medium** CS-AT-D2 100mL/bottle
 For the cryopreservation of immune cells such as $\alpha\beta$ -T, CAR-T, NK, iNK, CAR-NK, $\gamma\delta$ -T cells, etc.



02 For Stem Cells

- Stem Cell Cryopreservation Medium** CS-SC-D1 100mL/bottle
 For the cryopreservation of mesenchymal stem cells (MSCs) derived from various sources, iPSC, HSC derived from peripheral blood, etc.
- Stem Cell Cryopreservation Medium (DMSO-free)** CS-SC-N1 100mL/bottle
 For the cryopreservation of mesenchymal stem cells (MSCs) derived from various sources, such as umbilical cord and bone marrow



03 For Tissue/Organoid

- Organoid Cryopreservation Medium** CS-OG-D1 100mL/bottle
 For the cryopreservation of various organoids

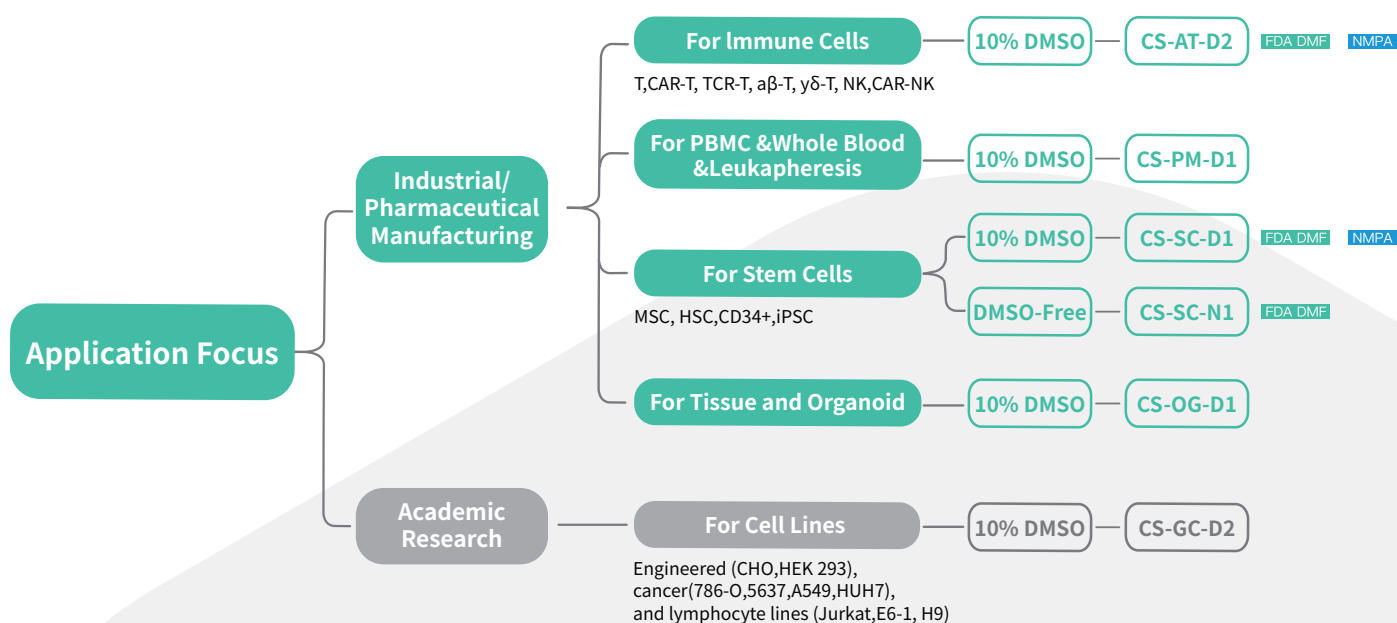


04 For Research & Academic

- Enhanced Cell Cryopreservation Medium (RUO Grade)** CS-GC-D2 100mL/bottle
 For the cryopreservation of various cell lines, primary cells, organoids, and other special and difficult-to-freeze cells (RUO Grade)



CellStore Cryopreservation Portfolio & Application Mapping



Note

All our products are GMP-compliant.

NMPA -Officially registered as pharmaceutical excipients in full compliance with Chinese regulatory standards.

CellStore Biotechnology specializes in cryopreservation media for sensitive cells and advanced cell-related workflows, offering both DMSO-containing and DMSO-free options. Our products are widely used in applications involving immune cells, stem cells, PBMCs, and other research or early translational settings where post-thaw performance, consistency, and workflow compatibility are critical.



CS-GC-D2

Cryopreservation Medium for Cell Lines,
Primary Cells and Organoids

READY-TO-USE | CHEMICALLY DEFINED | 10% DMSO

CellStore's ice-controlling formulation platform 기반으로
개발된 폭넓은 연구용 세포 동결보존배지입니다.



Designed for versatile research workflows

Broad application

Cell lines, primary cells, organoids and difficult-to-cryopreserve research cells.

Consistent workflow

Ready to use, reducing preparation steps and formulation-related variation.

Direct-freezing compatible

Supports direct freezing without a programmable controlled-rate freezer.

Chemically defined formulation

Formulated with pharmacopoeia-grade components; for research use only.

ORDERING INFORMATION

Cat. No.	Product	DMSO	Pack size
CS-GC-D2	Cryopreservation Medium (RUO Grade)	10%	100 mL/bottle

PERFORMANCE EVIDENCE

CHO cells

Post-thaw viability and growth recovery

In this internal comparison, CHO cells cryopreserved with CS-GC-D2 maintained high viability through Day 3 and showed robust post-thaw expansion.

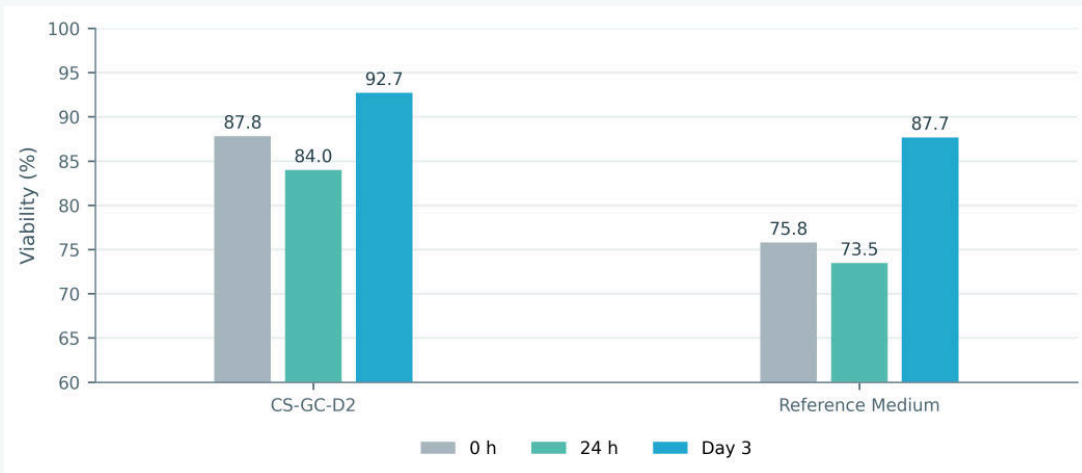


FIGURE 1 | 해동 후 0시간, 24시간 및 3일차 생존율

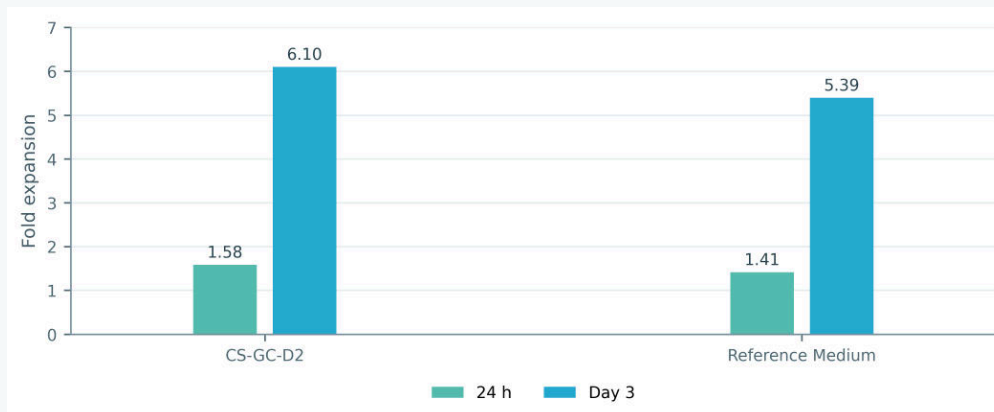


FIGURE 2 | 해동 후 24시간 및 3일차 증식 배수

KEY OBSERVATION

Day 3 viability: 92.7% with CS-GC-D2 vs 87.7% with the Reference Medium. Day 3 expansion: 6.10-fold vs 5.39-fold.

Under the tested conditions, CS-GC-D2 maintained high post-thaw viability and supported rapid recovery of cell growth. Performance should be verified under each laboratory's specific experimental conditions.

PERFORMANCE EVIDENCE

HEK293T and L929 cells

Post-thaw viability compared with fresh cells and the Reference Medium

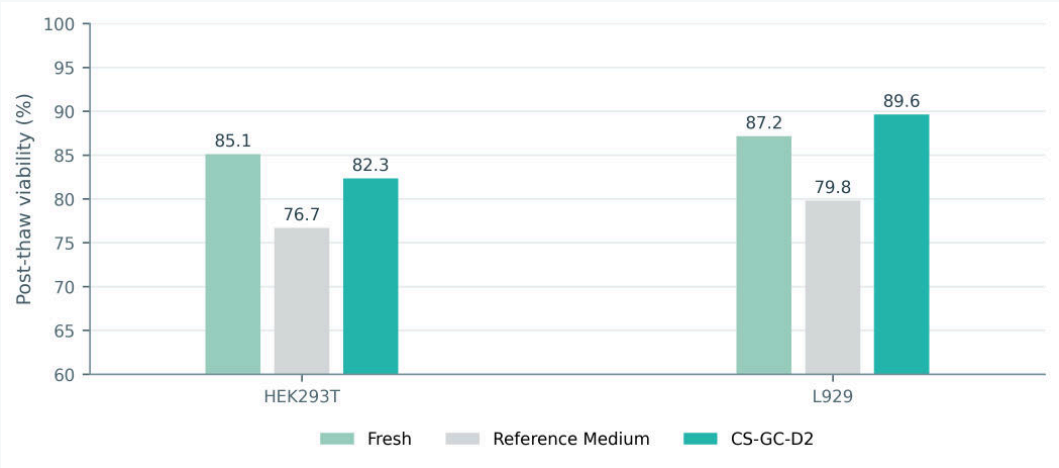


FIGURE 3 | 평균 해동 후 생존율

Cell type	Fresh	Reference Medium	CS-GC-D2
HEK293T	85.10%	76.70%	82.35%
L929	87.15%	79.80%	89.63%

KEY OBSERVATION

CS-GC-D2 viability was 5.65 percentage points above the Reference Medium for HEK293T and 9.83 points above it for L929.

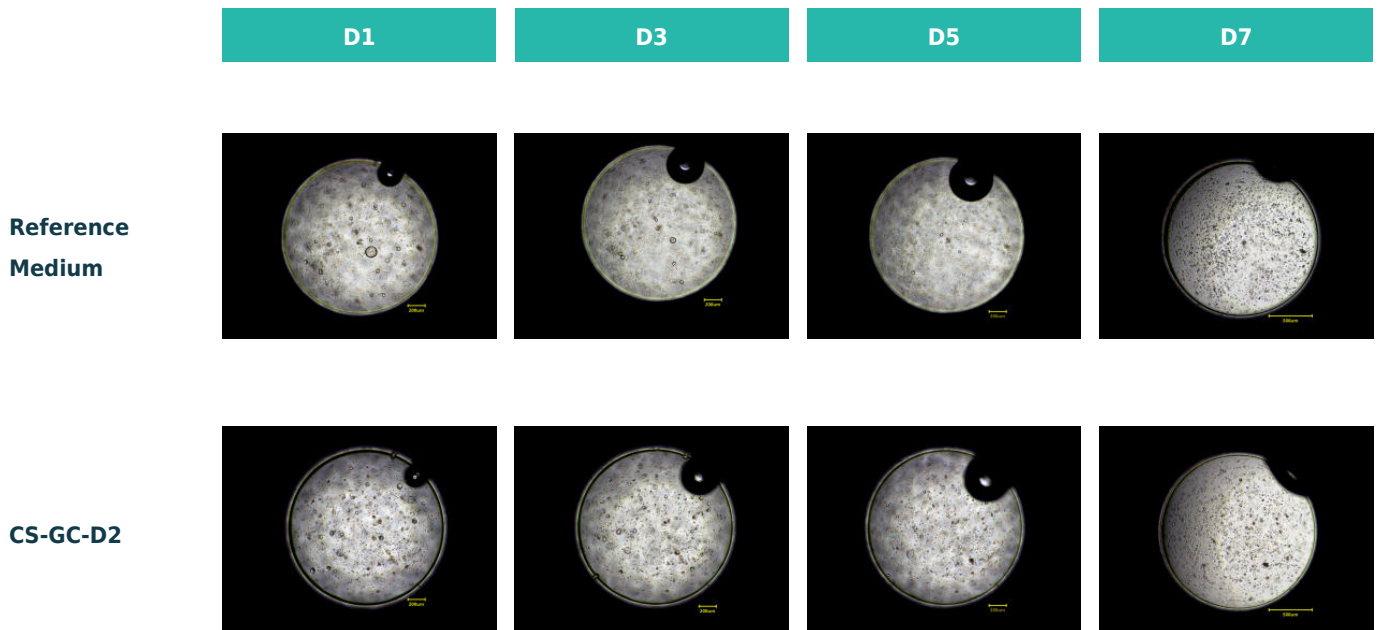
TWO CELL MODELS / ONE CONSISTENT RESULT

Across both tested adherent cell models, CS-GC-D2 maintained high post-thaw viability and exceeded the Reference Medium under the reported conditions.

ORGANOID RECOVERY

Normal tissue organoids

Comparable sphere formation with higher ATP activity



해동 후 1일차부터 7일차까지의 대표적인 오가노이드 형태입니다. 시험 조건에서 두 배지 모두 유사한 해동 후 구형체 형성을 지원했습니다.

ADDITIONAL OBSERVATION

The supplied Day 7 ATP assay showed higher activity with CS-GC-D2. Exact numerical values and statistical testing were not provided; this is presented as a qualitative trend.

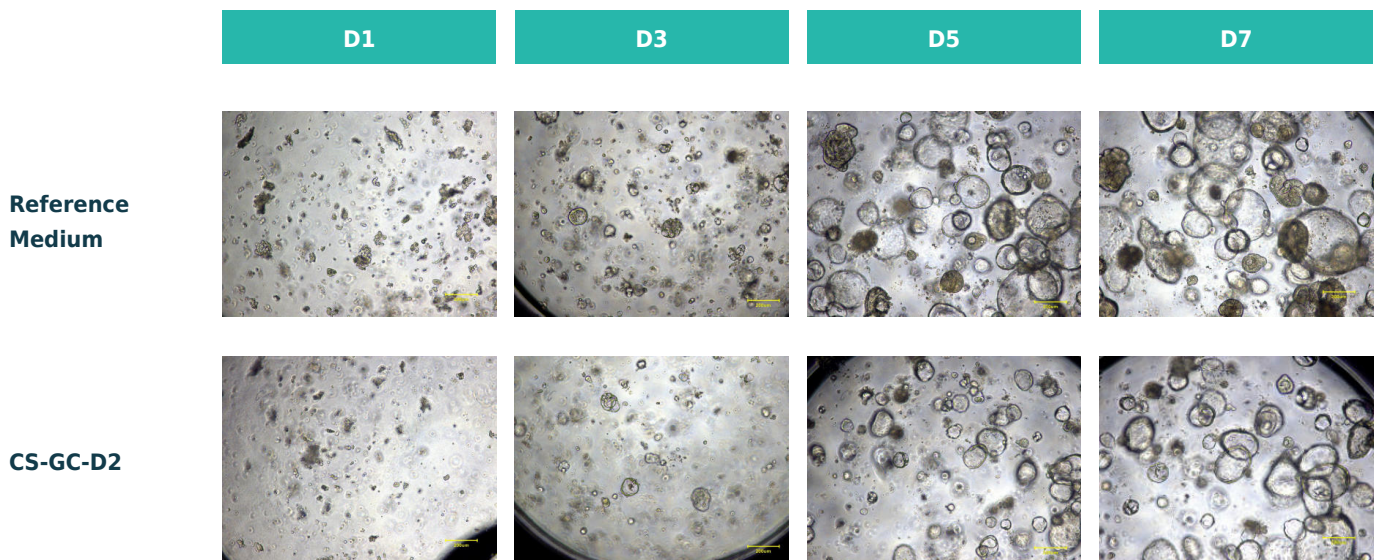
POST-THAW RECOVERY ACROSS FOUR TIME POINTS

The image series provides a clear view of morphology and sphere formation during the first week of post-thaw culture.

ORGANOID CHARACTERIZATION

Colorectal tumor organoids

Post-thaw morphology and lineage-marker retention



1일차부터 7일차까지의 대표적인 고배율 형태입니다. 제공된 연구에서는 두 배지 간 오가노이드 수, 크기 및 전반적인 구형체 형성 능력이 유사한 것으로 보고되었습니다.

FLOW-CYTOMETRY MARKERS

Condition	CDX2	CK20	Ki67
Pre-freeze baseline	87.50%	26.55%	22.16%
Reference Medium	89.29%	38.08%	51.72%
CS-GC-D2	93.39%	36.38%	27.71%

INTERPRETATION

Both media retained CDX2- and CK20-positive populations. For Ki67, CS-GC-D2 (27.71%) remained closer to the pre-freeze baseline (22.16%) than the Reference Medium (51.72%). These descriptive data do not establish statistical significance.