

CS-GC-D2

Cryopreservation Medium for Cell Lines,
Primary Cells and Organoids

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

**A broad-use research cryopreservation medium
powered by CellStore's ice-controlling formulation
platform.**



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.

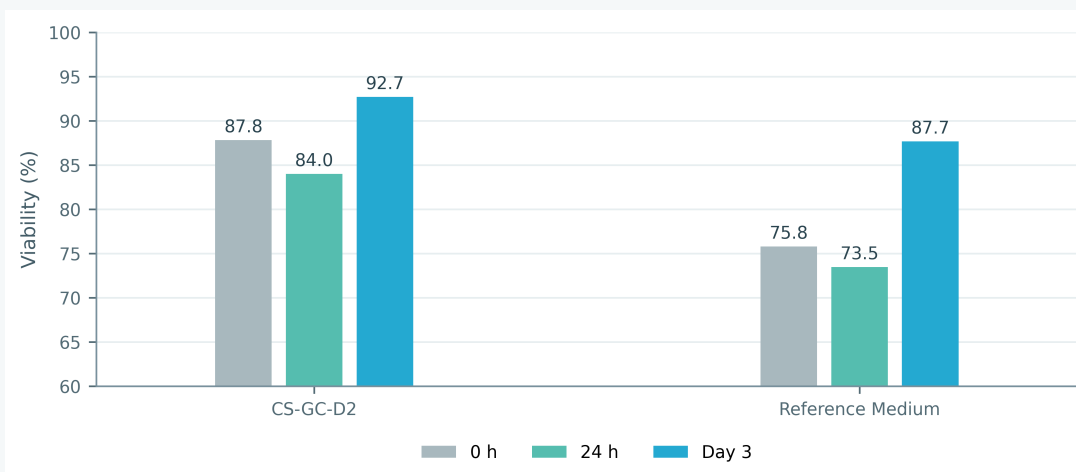


FIGURE 1 | Viability at 0 h, 24 h and Day 3 after thawing

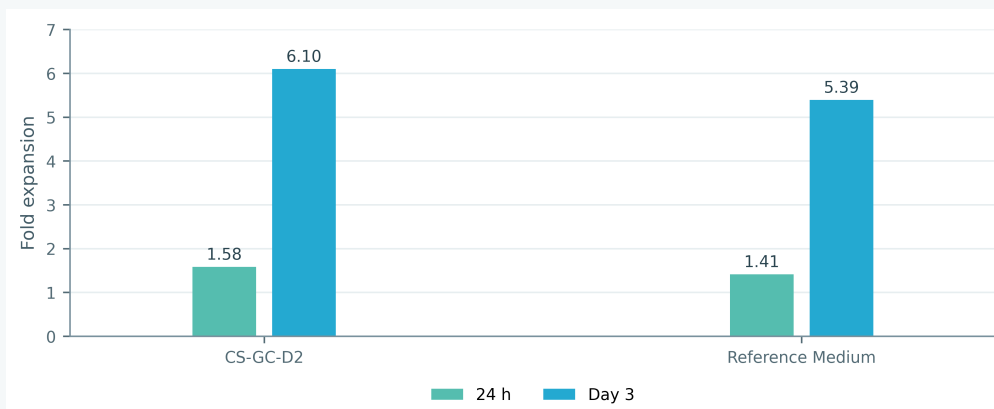


FIGURE 2 | Fold expansion at 24 h and Day 3 after thawing

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

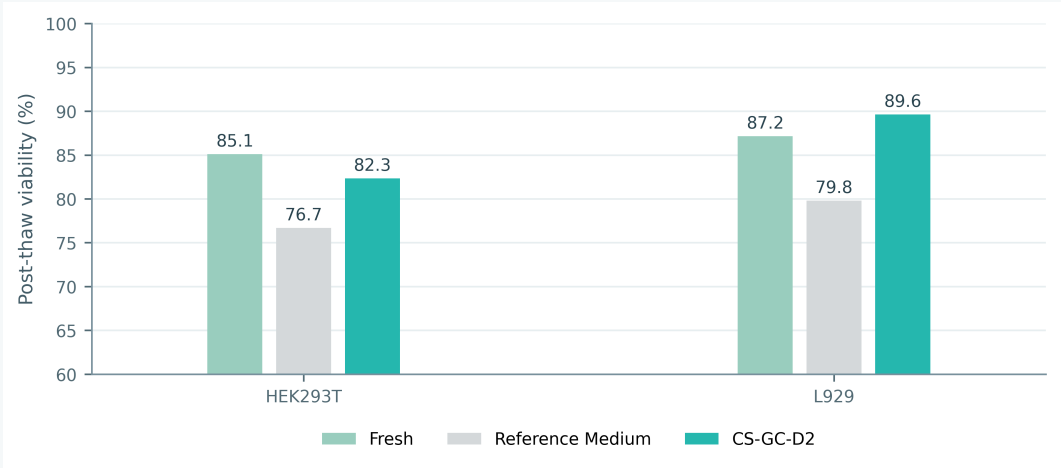


FIGURE 3 | Reported mean post-thaw viability

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.

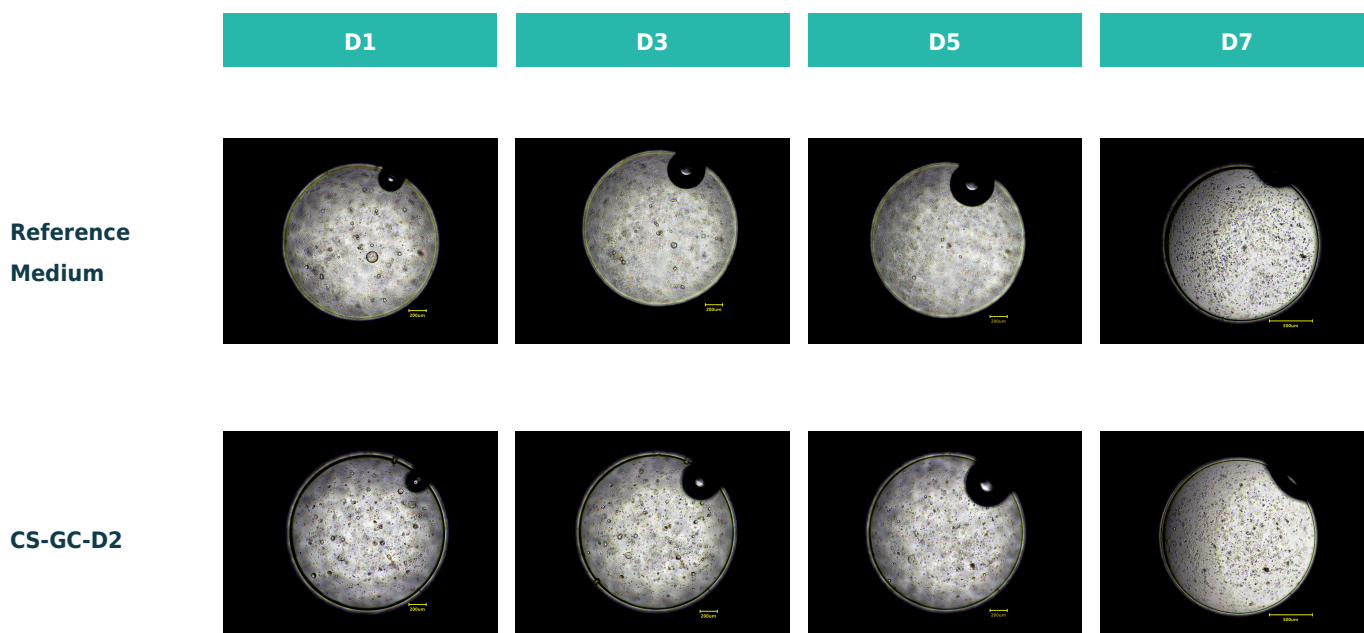
TWO CELL MODELS / ONE CONSISTENT RESULT

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



Representative organoid morphology from Day 1 to Day 7 after thawing. Both media supported comparable post-thaw sphere formation under the tested conditions.

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.

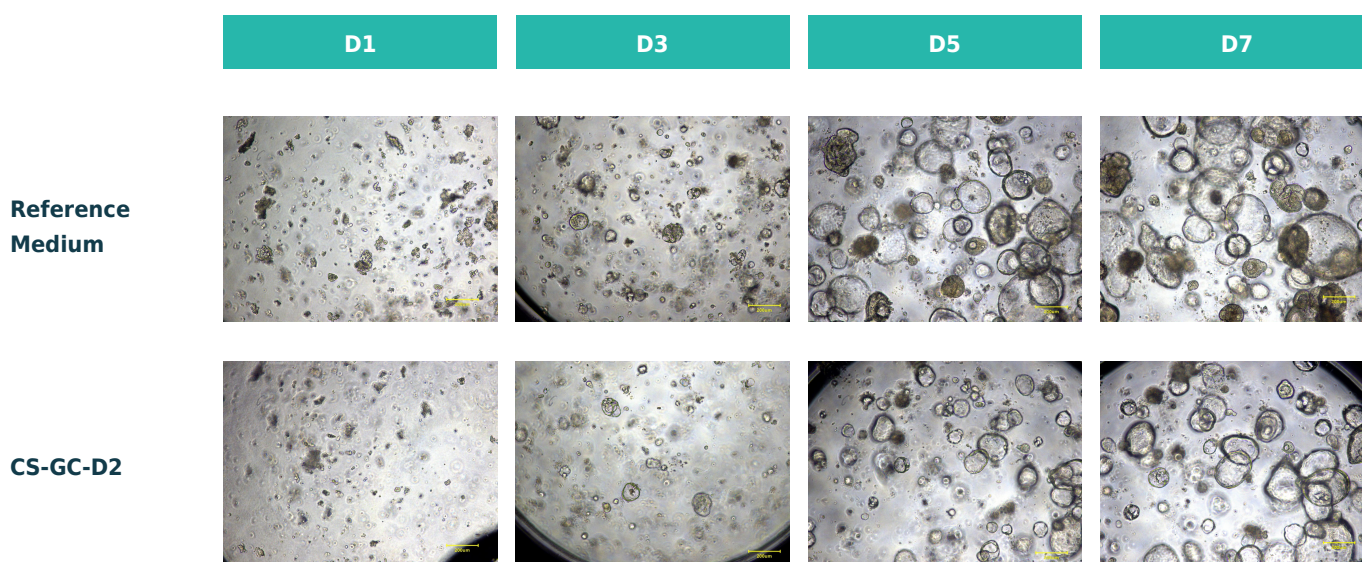
POST-THAW RECOVERY ACROSS FOUR TIME POINTS

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



Representative high-magnification morphology from Day 1 to Day 7. The supplied study reports similar organoid number, size and overall sphere-forming ability between media.

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.