

Freeze with Confidence.

A serum-free, xeno-free cryopreservation medium validated across mammalian cell lines delivering excellent post-thaw viability at a fraction of competitor costs.

PRODUCT SNAPSHOT

Product Name	CryoGuard™ Freezing Media
Catalog #	TM078
Volume	50 mL per unit
Regulatory	Research Use Only (RUO)
Formulation	Serum-Free, Xeno-Free, Defined
Sterility	Negative
Compatible Cell Growth	Adherent & Suspension
Cell Lines Validated	50+ mammalian cell lines

KEY ADVANTAGES VS. TRADITIONAL DMSO/FBS MEDIA

Ready-to-Use

No in-house preparation. Simply thaw, apply, and freeze. Reduces contamination risk.

Lot-to-Lot Consistency

Chemically defined chemistry delivers reproducible results across experiments and labs.

Broad Validation

Internally QC-validated across 50+ mammalian cell lines by abm R&D, including challenging cell types.

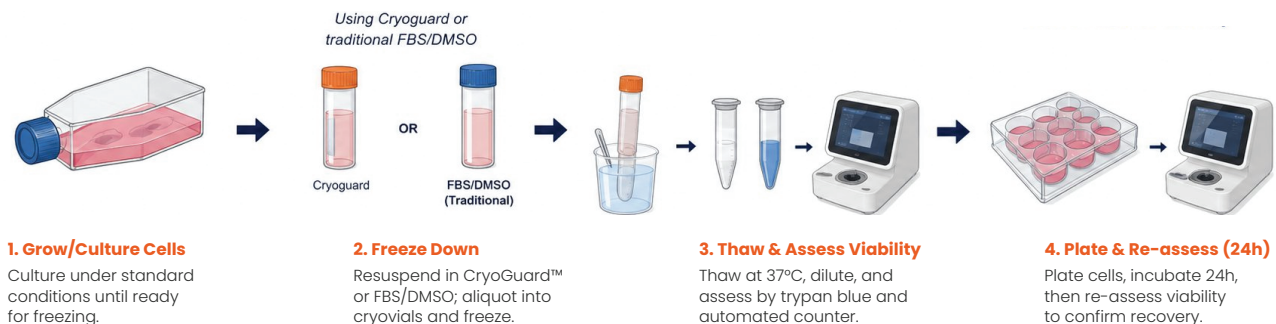
No Serum Lot Variability

Defined formulation eliminates batch-to-batch FBS variability – critical for reproducible science.

Xeno-Free

No animal-derived components – compatible with stringent ethical and regulatory mandates.

METHODS & EXPERIMENTAL DESIGN



TEST GROUPS

Group	Composition	Formulation Type
CryoGuard™ (TM078)	Serum-free, xeno-free	Defined, RTU
Control Group	70% complete medium + 20% FBS + 10% DMSO	Serum-containing
Commercial ES Reagent†	Commercial Embryonic Stem (ES) Reagent	Serum-free

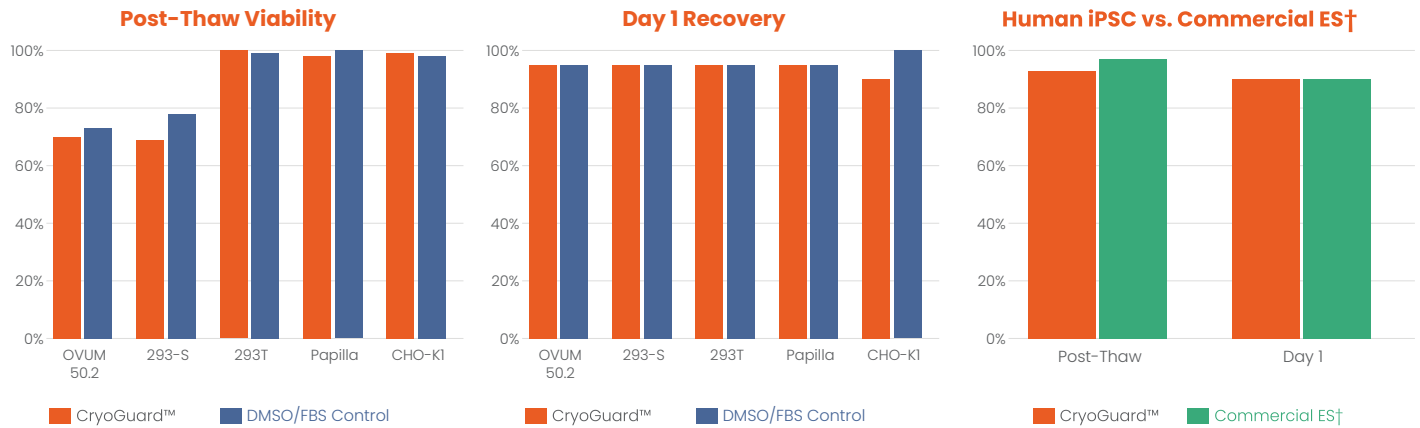
† Commercial ES reagent used for iPSC testing only – reflects serum-free requirements of pluripotent cell culture. See back for data.

Validation Data

Post-thaw viability across adherent and suspension mammalian cells and iPSCs

Head-to-Head Performance

POST-THAW VIABILITY — CRYOGUARD™ VS. DMSO/FBS CONTROL



FULL VALIDATION DATASET — CRYOGUARD™ (TM078)

Cell Line	Cat.No.	Growth	Post-Thaw CryoGuard™	Post-Thaw Control	Day 1 CryoGuard™	Day 1 Control
OVUM 50.2	N/A	Suspension	70%	73%	95%	95%
293-S	T8030	Suspension	69%	78%	95%	95%
293T	LV010	Adherent	100%	99%	95%	95%
Dermal Papilla (O Clone 1)	T0875	Adherent	98%	100%	95%	95%
CHO-K1	N/A	Adherent	99%	98%	90%	100%
Human iPSC	N/A	Adherent	93%	97%†	90%	90%†

SUMMARY STATISTICS

89.4%

Mean Post-Thaw Viability CryoGuard™

89.6%

Mean Post-Thaw Viability Control

93.3%

Day 1 Mean Recovery CryoGuard™

CONCLUSIONS & ADDITIONAL NOTES

Key Conclusions

CryoGuard™ achieved equivalent post-thaw viability compared to traditional DMSO+FBS controls for both adherent and suspension cells.

ORDERING INFORMATION — ASSOCIATED MATERIALS

Product Name	Cat. No.
CryoGuard™ Universal Cryopreservation Medium	TM078
2.0 mL Ext. Thread Cryogenic Vials (25/Bag)	G7595
12-Vial Alcohol-Free Cell Freezing Container	Q5085
30-Vial Alcohol-Free Cell Freezing Container	Q5086