ATLANTIS BIOSCIENCE
Discovering Solutions

Preserve with Confidence.
Unleash Therapeutic Potential.

CryoEase-PF

Advanced MSC Cryopreservation Solution

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TO ACT. TO SAVE.

ATLANTIS BIOSCIENCE PTE LTD

In Singapore, Atlantis Bioscience aims to enhance the lives of people worldwide through innovative life science solutions. We specialises in curating translational solutions for the research and development of cell & gene therapy, regenerative medicine, drug discovery & development, beauty & personal care, and food & nutritional science.

'Providing the finest bench-to-bed support to power you in making a difference.'

ATLANTIS BIOSCIENCE

Discovering Solutions

Engineered for Excellence,
Trusted Globally

CryoEase-PF

hMSC DMSO & Protein Free Cryoperservation Media

Overview

The **only DMSO-free, protein-free cryopreservation medium** that solves MSC storage challenges. Developed by **Singapore's cell therapy experts**, CryoEase-PF delivers superior viability and functionality while eliminating DMSO risks - setting the new standard for clinical-ready cell preservation.

Key Features

- DMSO-free, protein-free formula
- Maintains 23-hour post thaw population doubling time (PDT)
- GMP-compliant materials
- Preserve >85% Viability, Expansion Capacity & Potency after 72h at 4°C
- Dual-temperature stability

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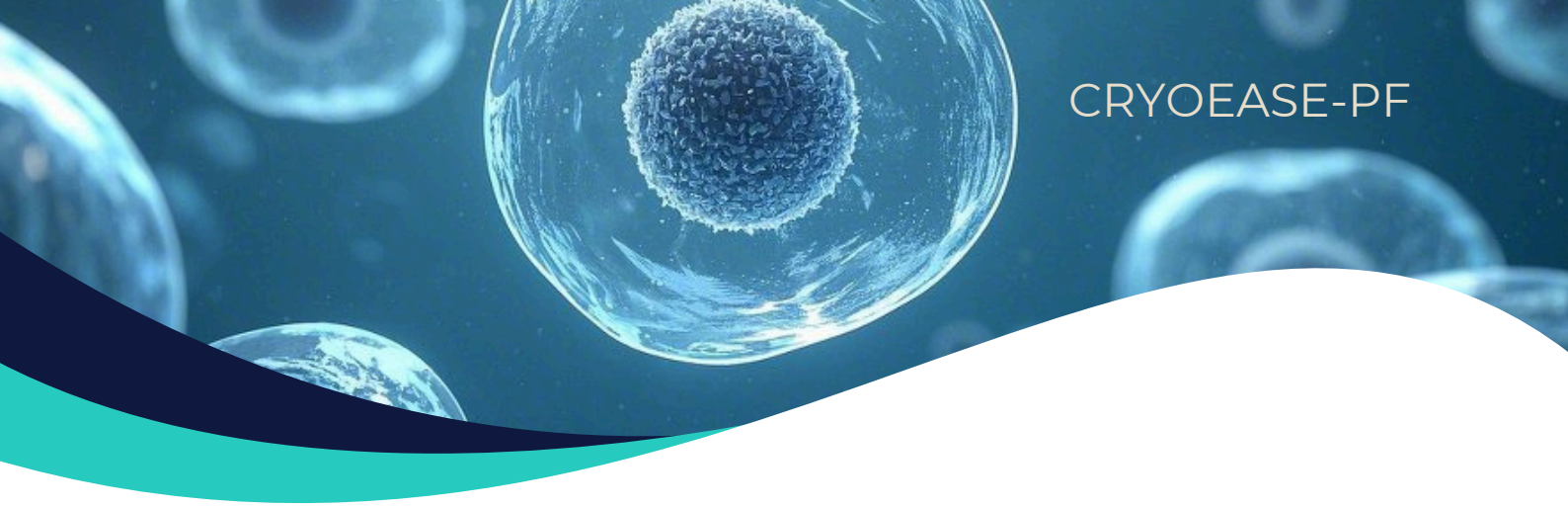

CRYOEASE-PF

How It Works

CryoEase-PF uses a proprietary, stress-free formula that:

- Reduces ice crystal damage
- Maintains osmotic stability
- Shields cells from oxidative/metabollic stress

A Fit for Every Frontline

Clinical Settings

Supporting MSC-based therapies with predictable and reproducible outcomes.

Biobanking

Enabling reliable experiments with high-quality stem cells.

Research Laboratories

Enabling reliable experiments with high-quality stem cells.

Veterinary Medicine

Facilitating innovative stem cell therapies for animal health.

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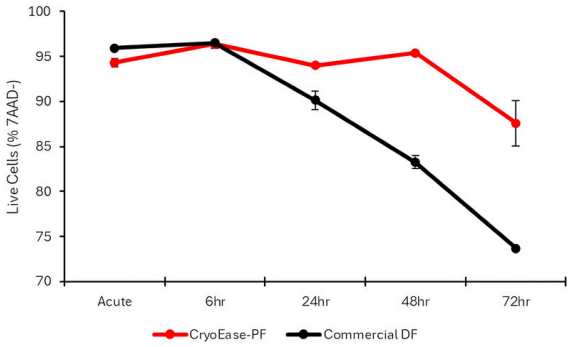
Real Results. Real Benefits.

CryoEase-PF isn't just a cryopreservation solution — it's a complete upgrade to how you store, transport, and use MSCs. Here's how it solves real pain points with real-world, tested results:

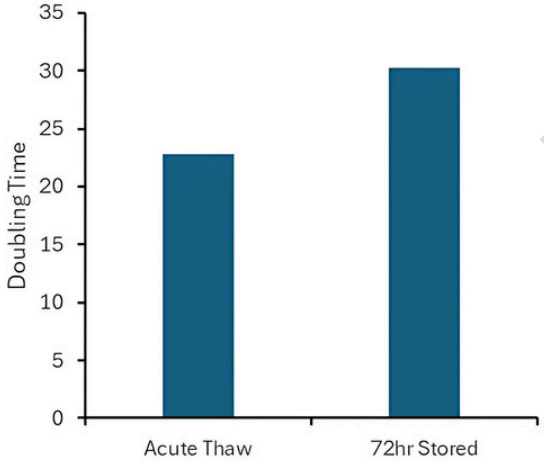
Higher Cell Viability — Even After 72 Hours

MSCs stored in CryoEase-PF retained over 85% viability after 72 hours at 4°C, compared to less than 75% with leading alternatives.



More viable cells = fewer repeats, lower costs, and stronger therapeutic or research outcomes.

Your Cells Stay Functional – Not Just "Alive"



MSCs stored in CryoEase-PF retain their ability to grow and expand, with doubling times of ~23 hours (freshly thawed) and ~30 hours (after 72 hours at 4°C).

These are cells you can actually expand and work with — perfect for clinical therapies and reproducible lab experiments.

Preserves Stem Cell Identity and Potency

Flow cytometry histograms show that cells maintain expression of CD73, CD90, CD105 (positive markers), and low expression of CD11b, CD19, CD34, CD45, and HLA-DR (negative markers).

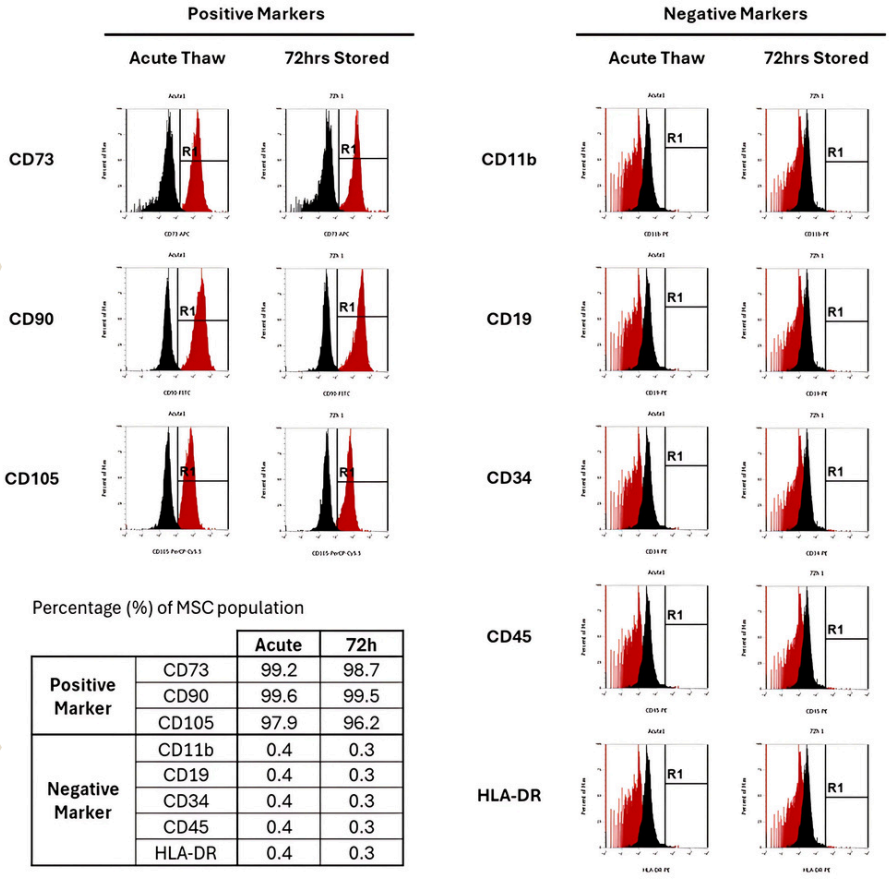
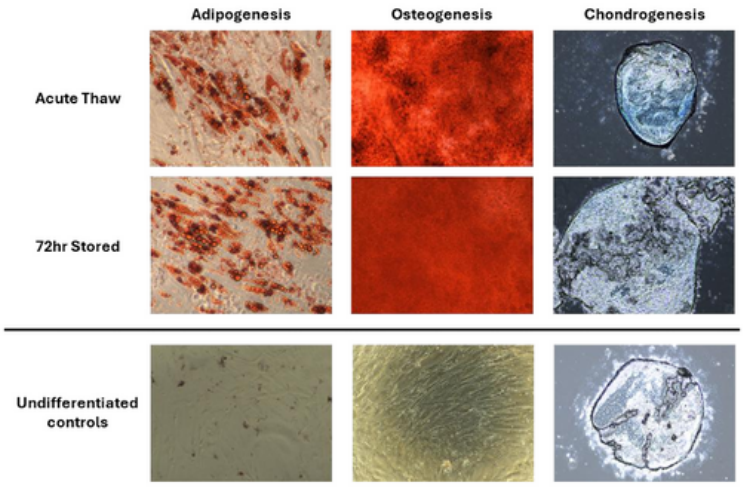


Table confirms 99%+ positivity for CD markers post-thaw and post-storage.

Percentage (%) of MSC population

		Acute	72h
Positive Marker	CD73	99.2	98.7
	CD90	99.6	99.5
	CD105	97.9	96.2
Negative Marker	CD11b	0.4	0.3
	CD19	0.4	0.3
	CD34	0.4	0.3
	CD45	0.4	0.3
	HLA-DR	0.4	0.3



Microscopic images show robust adipogenic, osteogenic, and chondrogenic differentiation in both acutely thawed and 72hr stored MSCs.

Your cells stay true MSCs — reliable, reproducible, and compliant with ISCT standards.

How CryoEase-PF Outperforms Competitors

Parameter	CryoEase-PF	Commercial Alternatives
72h Viability	>85%	<75%
Population Doubling Time	23h (acute thaw)	35–50h (variable)
Toxicity Risks	DMSO-free, xeno-free	DMSO-dependent
ISCT Compliance	Full retention	Often compromised

Ready to Preserve Better?

Join researchers, clinicians, and biobanks worldwide who trust **CryoEase-PF** to protect the full potential of their stem cells.

Request a sample from us!
support@atlantisbioscience.com

Scan to order

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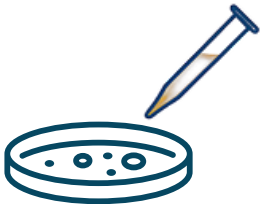
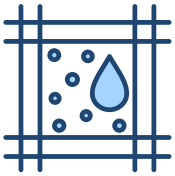
Step-by-Step Protocol

1



Trypsinise cells from monolayer.

2



Quantify cell number and viability.

3

Pellet cells by centrifugation.

4

Resuspend in an appropriate amount of CryoEase-PF.

5

Transfer to cryovials.

6

Equilibrate at room temperature for 10-15 mins.

We recommend a freezing density of 1-5 x 10^6 cells/mL

7

Store at -80°C.

Optional: use control rate freezer/freezing devices like CellHome for -1°C/min freezing

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Discover leading edge solutions with us.

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