



Cryopreservation

| A leading technology platform for
| cryopreservation of biological samples

Ice Controlling Technology
For a Better Life

Company Profile



CellStore Biotechnology Co., Ltd. (“CellStore”) is an innovative enterprise specialized in the R&D and production of cryopreservation media for bio-samples. We have built a world-leading technology platform for cryopreservation of biological samples.

Based on over a decade of innovative research, our experts from the Chinese Academy of Sciences have developed a groundbreaking “ice controlling cryopreservation technology”. Relying on a fully independent research and development ice control material synthesis library, we have developed and produced a variety of “dimethylsulfoxide (DMSO)-free, serum-free, protein-free and animal-free” cryopreservation media containing mere PRC Pharmacopoeia ingredients to provide cryopreservation solutions tailored to the emerging biopharmaceutical industry.

Moreover, leveraging an inventory of proprietary ice controlling materials, we provide customized cryopreservation solutions to biopharmaceutical enterprises and institutions specialized in cell therapy, gene therapy, vaccine development, assisted reproductive technology, regenerative medicine and livestock breeding, addressing their challenges on cryopreservation during R&D and production processes.

Headquartered in Beijing, with dual GMP-compliant manufacturing hubs in Beijing and Dongguan (total 1,000+m²) and supported by a comprehensive sales and service network spanning over 30 provincial-level regions nationwide, we deliver precision-engineered bio-preservation solutions to 200+ hospitals, leading research institutes, and clinical research organizations (CROs), empowering breakthroughs in cell and gene therapy and biobanking.

1000m²

GMP Production
Workshops

700m²

R&D Experimental
Platforms

23

Technical
Patents



Precise Cryopreservation Solution

01 For Immune Cells

- **Cell Storage and Transportation Solution** CS-CP-N1 500mL/bottle
For the storage, washing and transportation of various cells, including NK cells and stem cells
- **NK Cell Cryopreservation Medium** CS-NK-D1 100mL/bottle
- **PBMC Cryopreservation Medium** CS-PM-D1 100mL/bottle
For the cryopreservation of PB- and CB- derived mononuclear cells and buffy coats
- **$\alpha\beta$ -T Cell Cryopreservation Medium** CS-AT-D2 100mL/bottle
For the cryopreservation of $\alpha\beta$ -T Cells and related T cells
- **$\gamma\delta$ -T Cell Cryopreservation Medium** CS-GT-D1 100mL/bottle



FDA DMF

02 For Stem Cells

- **Stem Cell Cryopreservation Medium (DMSO-free)** CS-SC-N1 100mL/bottle
- **Stem Cell Cryopreservation Medium** CS-SC-D1 100mL/bottle
For the cryopreservation of mesenchymal stem cells (MSCs) derived from various sources, such as umbilical cord and bone marrow
- **iPSC Cryopreservation Medium** CS-IPS-D1 100mL/bottle
For the cryopreservation of iPSCs derived from various sources, such as blood cells, epithelial cells, and fibroblasts
For the cryopreservation of cell aggregates and individual cells
- **General Use Cryopreservation Medium (DMSO-free)** CS-DX-N2-1 100mL/bottle
For the cryopreservation of cells such as PBMCs, stem cells and T cells
- **Cord Blood Stem Cell Cryopreservation Medium** CS-NP-D1-1 100mL/bottle
- **Neural Precursor Cell Cryopreservation Medium** CS-NPC-D1 100mL/bottle



FDA DMF

FDA DMF

NMPA

NMPA

03

For Cell Lines

- Cell Line Cryopreservation Medium (DMSO-free) CS-GC-N1 100mL/bottle
- Cell Line Cryopreservation Medium CS-GC-D1 100mL/bottle

For the cryopreservation of dozens of cell lines, including engineered cell lines, cancer cell lines, and lymphocyte lines



FDA DMF

04

For Tissue

- Tissue Preservation Medium (DMSO-free) CS-TP-N1 100mL/bottle
- Tissue Cryopreservation Medium CS-TC-D1 100mL/bottle

For the low-temperature storage and cryopreservation of tumor tissue, normal tissue and tissue-engineered biological products from various mammals, such as humans, murines, swines and bovines



- Organoid Cryopreservation Medium CS-OG-D1 100mL/bottle

05

For Assisted Reproductive Technology

- Assisted Reproduction Cryopreservation Kit CS-IVF-FK 4.5mL*2 vials

For the cryopreservation of oocytes, cleavage-stage embryos, and blastocyst-stage embryos

- Assisted Reproduction Thawing Kit CS-IVF-TK 4.5mL*4 vials



Customized Services (CRO & CDMO)



1. CRO – Formulation Process Development

For over a decade, our research and development team has investigated structures and functions of antifreeze proteins in various cold-tolerant animals and plants living in low-temperature environments. Through theoretical calculation and structural stimulation, we have developed ice-controlling molecules and set up a world's largest inventory of ice-controlling materials, offering safe, efficient and precise cryopreservation solutions for various biological samples.

As a solid backing for biopharmaceutical enterprises and research institutions, we specialized in providing customized cryopreservation for various biological samples. Our services cover many frontier fields, such as cell therapy, gene therapy, vaccine research and development, assisted reproduction, regenerative medicine, livestock breeding and medical cosmetics.

With exceptional innovative capabilities, we have developed groundbreaking solutions for various biological samples, for example, we have made breakthroughs in cryopreservation technology, from concept to reality, for samples including induced pluripotent stem cells (iPSCs), $\gamma\delta$ -T cells, neural precursor cells, fresh adipose tissue and exosomes.

2. CDMO – Process Development, Optimization, and Scale up

We specialize in delivering end-to-end solutions for advanced sterile and non-sterile liquid formulations, process optimization, analytical method validation, and scalable commercial manufacturing, accelerating the pathway from early-stage innovation to GMP-compliant production.

Platform	Equipment	Specification	Quantity	Products	Capacity
Liquid Preparation Platform	Isolator Filling Line	Isolator+Filling	2	Cryopreservation media, cell culture media, cell separation solutions, cytokines, serum, exosomes, human albumin, buffers, digestive solutions, mineral oil, monoclonal antibodies, etc.	3–1000 mL square bottles, vials and bags
	Full-automatic Preparation System	20L	1		Annual 4,000L liquid preparations (200, 000 vials/year, 5mL/vial) Maximum of 1,000 vials/batch, 200 batches/year
		100L	1		Annual 20,000L of liquid preparations (200,000 bottles/year, 100 mL/bottle) Maximum of 1,000 bottles/batch, 200 batches/year
		500L	1		Annual 100,000L of liquid preparations (1,000,000 bottles/year, 100 mL/bottle) Maximum of 500 bottles/batch, 200 batches/year



Cooperation Partners

In addition to offering a comprehensive range of cryopreservation media through innovative techniques, we established strict quality control standards and owned a professional team.

We are actively seeking collaborative partnerships in the following domains:

- Research projects on biological samples that difficult to cryopreserve
- Distributors from all over the world
- CDMO services of advanced liquid preparations
- Clinical trials filing and sample testing programs

Why Us

Based on our groundbreaking **“ice-controlling cryopreservation”** technology, we have launched innovative, precise, efficient and safe cryopreservation solutions.

All of our products adopt formulas containing mere pharmacopeia ingredients to guarantee stable and reliable quality. Our development method follow the principle of **“serum-free, protein-free and animal component-free”**, which effectively mitigate potential risks and enhance the safety of the cryopreservation for biological samples.

Moreover, thanks to “ice-controlling cryopreservation” technology, **“DMSO-free”** cryopreservation can be achieved, which reduces toxicological damage to the biological samples and effectively increases sample resuscitation rates.

For Cell Lines ▼



For Tissue ▼



For Immune Cells ▼



Assisted Reproductive Technology ▼



For Stem Cells ▼





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For a Better Life*

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