



Sino-Biocan

Cellular & Genetic Drug Preparation

Automated Production Solutions



COMPANY PROFILE

Sino-Biocan (Shanghai) Biotech Ltd is an automated, modularized, closed cell production platform provider in cell & gene therapy field, providing total solution of smart tools innovation and service, devoting to be the industry leader integrating R & D, business development, technical service, customization and production.

Sino-Biocan has developed a GMP-grade product family of fully closed, modularized, continuous cell preparation tools, as well as consumables and liquid solution, covering processes such as automated cell separation, culture, cell concentration, washing and formulation filling, cryopreservation and recovery, widely applied in cell and gene drug development, CDMO, medical and pharmaceutical stem cell preparation and application, cord blood bank management and cell storage, etc. We can also provide modular splicing of different GMP processes according to specific customer requirements for different pipelines, to realize the rapid, efficient and differentiated customization of series products of cell preparation tools. In 2021, Sino-Biocan has completed the construction of its self-owned production base with a total area of 7600 m² in Shanghai Lingang Nanqiao Science and Technology City,



which includes GMP-grade C+A consumable clean workshop, pharmaceutical grade liquid clean workshop, NMPA medical device production workshop, C+A cell & gene therapy process research and validation lab, equipment R&D lab, high clean level fully functional QC center, high level low-temperature and room-temperature warehouse, reaching production scale of 200,000 sets of consumables, 600,000 bottles of liquid reagents and 3,000 sets of equipment per year for cell & gene therapy preparation. In 2024, Sino-Biocan will expand the second-phase production base of more than 14,000 m², intending to make it a leading production base for cell & gene therapy intelligent tools in China. At the end of 2021, Sino-Biocan established Design and Research Institute, set up Chengdu R&D center and Shanghai R&D center, composed of high-quality R&D personnel with years of core technical capabilities and practical experience in the field of cell preparation tools, forming a leading R&D team covering systems, machinery, electronics, software, consumables and testing. In addition, we have core technology advantages in complex system development, accurate flow path design, accurate blood cell separation, image recognition and GMP-grade consumables, providing a strong R&D technical guarantee for Sino-Biocan's business targets and strategic goals.



Company Profile

Adhering to the principle of cooperation and originality on the way of exploration, Sino-Biocan carried out project cooperation with more than ten universities, medical institutes and scientific research institutes, such as Tsinghua University, Tongji University, and constructed multi-field postdoctoral mobile stations and expert workstations. Sino-Biocan has been cooperating with Chinese Society of Blood Transfusion to explore the latest research fields of cell preparation technology and application, signed strategic cooperation agreements with dozens of middle and downstream enterprises in the industry, cooperated with more than 100 original cell and gene drug developers and CDMO companies. At present, the company has obtained more than 50 patents and trademark certificates independently, and started international PCT application.

Sino-Biocan highly values construction of high quality standards, and has obtained ISO9001 and ISO13485 certification and submitted CE and NMPA applications.

Sticking to the concept of “innovation, development, cooperation, professionalization”, through uninterrupted intelligent and innovative technology, Sino-Biocan can meet customer’s growing demands for improving quality of all kinds of cells, cooperate with customers to improve each step of the process and become the brand leader to provide high-quality “comprehensive solution for cell preparation intelligent tools”. Be top in one market, be top in all markets.

A GMP-Grade Product Family of Fully Enclosed Continuous Cell Preparation Tools



Cell separation
Cell modification



Cell expansion
Virus preparation



Cell concentration
Supernatant collection



Cell washing
Formulation filling



Cryopreservation
Tubing connection



Cell recovery
Retransfusion

Equipment

CELL-VOR | Automated Cell Processing System

This automated cell processing system is a cell processing instrument integrating multiple process modules, which can be applied to the standardized production of various cell-based therapy products.

Applications: separation of peripheral blood mononuclear cells, cord blood stem cells, bone marrow stem cells; cell concentration, dilution, washing, formulation filling and magnetic beads incubation, etc.

Disposable closed consumables and automated control system provide customized production solutions of different cellular therapy products based on customer's specific requirements.



CELL-WAV | Automated Cell Expansion System

CELL-WAV series Automated Cell Expansion System meets the needs of high-volume cell culture; it can be customized according to the requirements of culture volume, where a series mode is used to flexibly adapt to different culture volumes.

The sterile consumables that come along with the system can be used to real-time determine key parameters such as DO and pH of the culture medium, and also meet the needs of real-time fluid replenishment and system perfusion. These supporting consumables have clave screw ports for sterile sampling and liquid addition/collection to ensure that cell growth can be controlled and monitored at all times. This system is mainly used in the expansion and collection of stem cells, immune cells, and other cells needed for cell therapy and cosmetology.



Super CELL-VOR | Automated High Volume Cell Concentration System

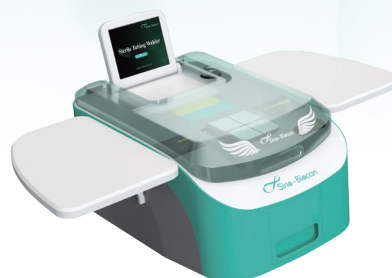
Super CELL-VOR Automated High Volume Cell Concentration System, together with its compatible disposable closed consumables, is used for closed, automated and efficient concentration of 2L-20L high volume cells by means of continuous flow, widely applied in production scales.

The sterile consumables can be customized with connection ports to match the customers' corresponding equipment, and all bags have a sampling port to ensure sampling is always feasible for calculation needs.



CELL-LAV | Sterile Tubing Welder

CELL-LAV sterile tubing welder is widely used for blood filling and preparation in blood stations, hospital blood banks, as well as tubing connection and liquid filling in bioprocessing companies and immunotherapy centers. It provides different welding temperature settings for various bag sizes for different purposes, to meet the tubing welding requirements of different materials such as PVC, latex, silicone and PE tubings.



<<< Sterile Tubing Welder

CELL-COL | Automated Cell Recovery System

CELL-COL Automated Cell Recovery System is designed to recover cryopreserved products safely and consistently in an controlled environment.

By using dry technology, cell products can be recovered safely and consistently with simple parameter settings, which reduces the contamination risk of the traditional manual water bath method and provides a complete recovery record.

Automated Cell Recovery System >>>



Consumable

CELL-WAV | Disposable Cell Expansion Kit

CELL-WAV disposable cell expansion kit is a sterile consumable for CELL-WAV automated cell expansion system. It has wide applicability and is basically suitable for all cell culture conditions, mainly including the production and collection process of immune cells, tumor cells, insect cells, stem cells, etc., as well as side products of cell culture such as viruses.

The main body of the culture bag in this kit can provide a cell processing volume of 20 ml-20 L, meeting the needs of three different culture processes: basal culture, pH/DO fiber culture and perfusion culture. Kit specifications and sizes can be customized as per process requirements.



Super CELL-VOR | Disposable Cell Concentration Kit

Super CELL-VOR disposable cell concentration kit is a sterile consumable for Super CELL-VOR high volume cell concentration system, to realize rapid harvest of large-scale cultured cells.

It provides a closed place for cell harvest, greatly reducing risk of contamination from open operations, while transforming the tedious processes of dispensing, balancing, centrifugation and harvest of traditional centrifuges into a simple process that can be performed by a single operator. It can cover almost all cell harvest applications, e.g. immune cells, tumor cells, insect cells, stem cells, etc.



CELL-VOR | Disposable Cell Processing Kit

With different types of consumables, the fully automated cell processing system can realize various functions such as PBMC cell separation, hematopoietic stem cell separation, bone marrow stem cell separation, cell concentration and medium change, formulation filling and magnetic bead incubation, etc.

This consumable provides a closed place for cell separation, medium change, filling and other processes, greatly reducing the risk of contamination from open operations. It is convenient and fast to use, compatible with a large number of downstream cell processes, and can meet the processing needs of almost all types of cells.



Liquid Products



Cell Cryopreservation Medium

- Serum free, stored directly in -80°C freezer, controlled rate cooling not required
- Higher quality: cell recovery rate over 90%



Umbilical Cord Blood Stem Cell Cryopreservation Medium

- Clear chemical composition, free of serum and any other human derived ingredients
- Easy to use, no additional additives required, ready-to-use cryopreservation medium



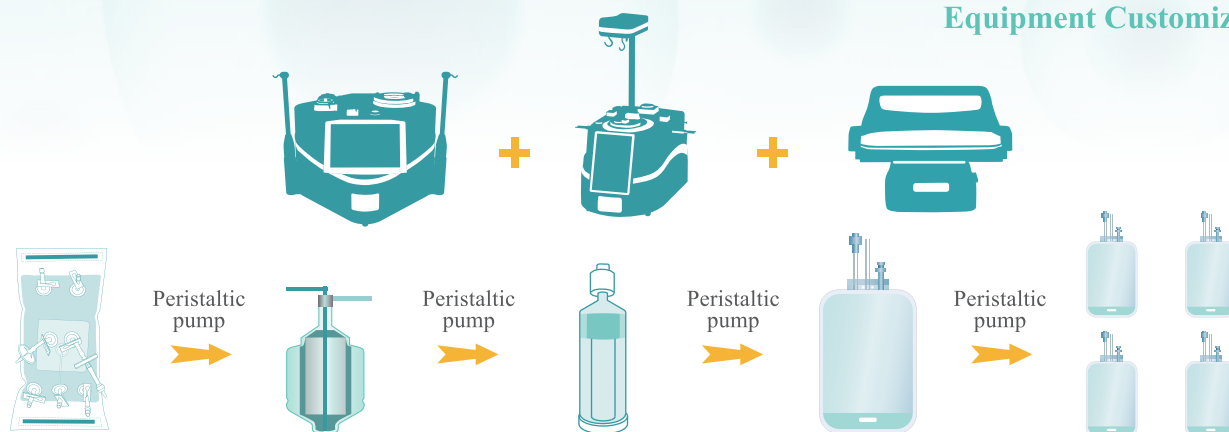
DMSO-free Cell Cryopreservation Medium

- Clear chemical composition, free of animal-derived ingredients and DMSO
- Widely used in cryopreservation of various primary cells and stem cells of human or animals

Cell Cryopreservation Medium

Customization Service

Equipment Customization



CELL-VOR Cell Processing System Customization

- It can realize low-damage concentration and recovery of cells for dozens of liters or hundreds of liters of samples.
- Used with fully enclosed disposable sterile consumables to avoid all open operations and ensure production safety.
- It can be connected with different culture containers with high process compatibility.
- Concentration efficiency, temperature control, final product volume, product washing and other needs can all be customized.
- Software modules can be customized as per customer's process requirements.

CELL-WAV Cell Expansion System Customization

- Equipment hardware/software customization: such as rocker size, sample size to be processed, peristaltic pump speed, rocker swing speed, etc.
- Customization of culture kits: such as special joints and tubing connections required for upstream and downstream process docking.
- Process customization of high-throughput system: i.e., to realize high-throughput cell expansion through a one-to-multiple mode between the console and rockers.

Consumable Customization

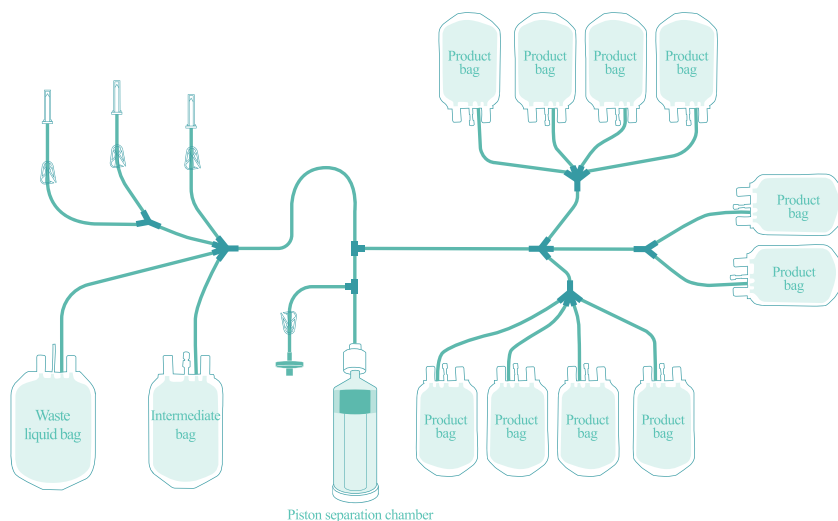
Customization of disposable cell concentration kit

Customization of disposable cell expansion kit

Customization of disposable cell separation kit

Customization of disposable cell washing & concentration kit

Customization of disposable formulation filling kit



Liquid Product Customization

- Customization of cell cryopreservation medium
- Customization of cell culture medium
- Filling customization of magnetic beads
- Filling customization of cytokines and antibody



- Filling customization of preparation liquid
- Filling customization of buffer solutions
- Other OEM customization
- Batch filling customization of other liquid products

Workflow of Customization Services

1 Communication of customer technical requirements

- Customer process communication
- Confirmation of URS descriptions
- Signing a confidentiality agreement

2 Design of product requirements matching

- Requirements review and feasibility analysis
- Confirmation of product concept and specifications
- Issuing an overall plan
- Signing a contract

3 Testing of products after processing and assembly

- Product assembly
- Product internal test
- Factory acceptance test for delivery

4 Customer testing of products

- Compliant with customer process requirements

5 Site acceptance test upon product delivery

- Installation and debugging
- Site acceptance test

6 Product validation and after-sales service

- IQ/OQ/PQ process validation
- Product training
- Completion of site acceptance
- After-sales service commitment

Sino-Biocan (Shanghai) Biotech Ltd

Tel:021-60890755 / 4000056700

E-mail:info@sinobiocan.com

Website:www.sinobiocan.net

Address: 2nd Floor, Building 15, No. 6055, Jinhai Road, Fengxian District, Shanghai

Sino-Biocan Biotech (Shanghai) Ltd

Tel:021-60890755 / 4000056700

E-mail:info@sinobiocan.com

Website:www.sinobiocan.net

Address: 1st Floor, Building 15, No. 6055, Jinhai Road, Fengxian District, Shanghai

Sino-Biocan (Chengdu) Biotech Ltd

Tel:028-85840406 / 85893618

E-mail:info@sinobiocan.com

Website:www.sinobiocan.net

Address: 4th Floor, Building 4, Tianfu International Biology City, No. 618, Fenghuang Road, Shuangliu District, Chengdu

TÜRKİYE YETKİLİ TEMSİLCİSİ

DATEKS®

DATEKS TEKNİK SİSTEMLER A.Ş.:
Yasamkent Mah. 3061 Cad. No:38 06810
Çankaya / ANKARA
Tel : (+90 -312) 212 70 97 (PBX)
Faks: (+90 -312) 212 07 82
E-mail: dateks@dateks.com
www.dateks.com