

# STEMSOURCE® CELL BANK

AN INNOVATION OF CYTORI

Your customized, turn-key banking solution

## 4 STAGES OF CELL BANKING:

- ▶ HARVEST
- ▶ PROCESS
- ▶ BANK
- ▶ DELIVER



# ADRCs and Regenerative Medicine

The use of Adipose Derived Regenerative Cells (ADRCs) as an option for the repair and restoration of function to tissue is expanding. To date, research exploring the potential of ADRCs has been conducted in a number of therapeutic areas, including Heart Disease, Muscle and Tissue Repair, and Wound Management.

The StemSource Cell Bank is a turn-key, GTP-compliant<sup>1</sup> technology designed to enable the safe and effective long-term storage of viable ADRCs, which allows the user to harness their cells for potential future clinical applications.

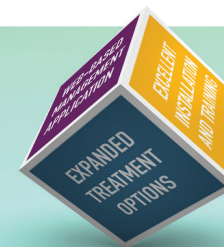
## Introducing the Fourth Tenet of Medicine: Cell Therapy



## The Cytori Promise

Based on over ten years of research and development, thousands of patient samples received and characterized and constant product innovation, Cytori Therapeutics, Inc. has developed the StemSource Bank System. Cytori has been a leader in the field of Regenerative Medicine since 2002, dedicated to developing a standardized, automated technology platform for ADRC extraction and preservation from autologous adipose tissue.

Cytori's GTP-compliant StemSource Banking System ensures the highest degree of safety and quality, while maintaining consistent and reliable recovery of viable, functioning ADRCs.



## The Building Blocks for a Successful Bank

### ■ Customized Scalability

The StemSource Cell Bank is scalable to meet the needs of a single medical center or a network of hospitals. The turn-key processes of the StemSource bank are designed to accommodate free standing private medical practices as well as large medical centers. It may be customized to expand your reach into a network of established collection sites using validated transport procedures. As your practice grows, your bank can grow with you.

### ■ Optimized Clinical Opportunities

One liposuction can yield ADRCs for multiple procedural uses. For treatments requiring multiple, phased procedures, ADRCs can be thawed in smaller aliquots and used as needed. Your bank can also be used for adipose tissue storage enhancing your clinical applications including tissue remodeling and reconstruction.

### ■ Excellent Installation and Training

A designated team of expert scientists and engineers will install your customized StemSource Cell Bank and train your staff to ensure seamless integration of the banking technology into your facility. Additional training programs, in conjunction with regional technical support, are also offered as part of a comprehensive customer support package.

### ■ Commitment to Quality Management

All Bank activities, from installation, training, and maintenance, to individual patient records are documented to meet key safety and regulatory requirements. The StemSource Cell Bank comes with a Quality Plan and detailed SOPs and policies to address all aspects of bank operations. All components and service are 100% warranted for one-year post installation at no additional cost. Service contracts and additional training are available to maximize your banking program success. Customer Service phone support is available 24 hours a day to support your banking questions and enhance quality outcomes.

### ■ Expanded Treatment Options

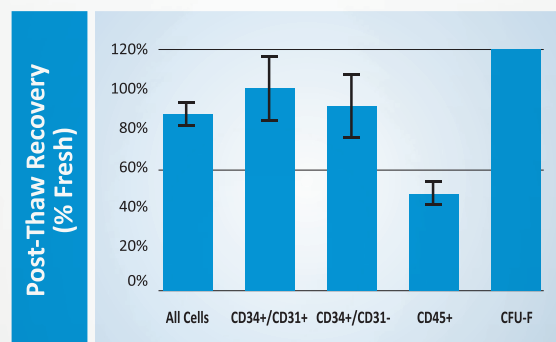
To date, ADRCs are being used in the clinical setting for Breast Reconstruction, Chronic Wound Healing, and Stress Urinary Incontinence. Ongoing adipose derived stem cell research will open doors to a multitude of new therapeutic indications in the near future, empowering your patients with alternative treatment opportunities.

<sup>1</sup> Good Tissue Practice (GTP) ensure that tissue processing within the StemSource Cell Bank is safe, consistent, and compliant with FDA regulations.

# StemSource Standard Operating Procedures (SOPs) Ensure:

- Quality
- Reproducibility
- Traceability
- Sample Integrity

Cytori's validated cryopreservation protocols provide a means for excellent post-thaw ADRC recovery and viability.



**Figure 1** The StemSource Cell Bank cryopreservation processes allows for excellent recovery of viable and functional cells after thawing including various key ADRC subpopulations.

The data shown in **Figure 1** are average results from internal Cytori studies. Individual results may vary.

## StemSource Web-based Processing and Data Management Application

- Displays automated step-by-step instructions throughout cell cryopreservation processes
- Generates unique barcode identifier for each patient sample
- Automatically records all supplies and consumables used throughout processing
- Contains a secure patient database, including sample storage and retrieval record
- Includes equipment maintenance alerts and inventory management functionality
- Allows customization upon installation to meet your specific needs, including language preference
- Gives confidence to ensure simple, reliable, safe banking processes, while ensuring patient confidentiality, cell integrity, and ease-of-use

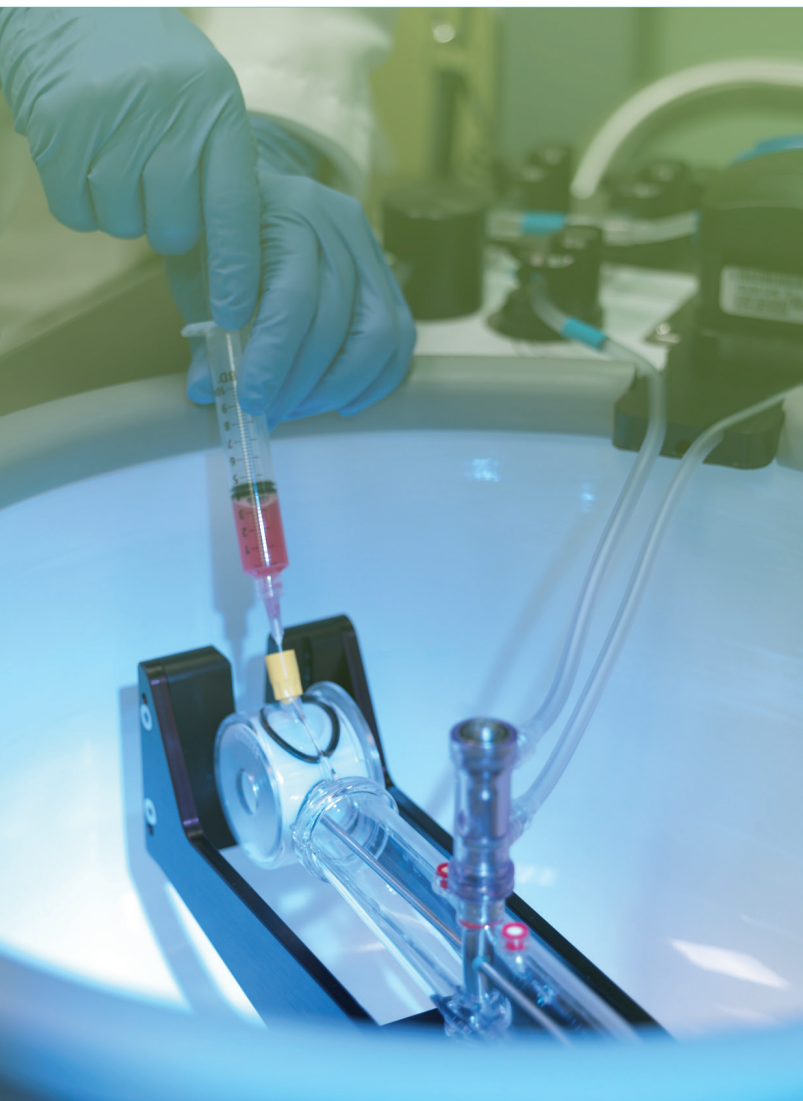
## StemSource Tissue Processing System

- Automates and standardizes the washing, extraction, and concentration of ADRCs
- Enables sterile processing of tissue and cells within a closed system
- Eliminates the extended culturing processes required for other cell types
- Processes up to 360 mL of adipose tissue to extract up to 144,000,000 viable ADRCs per cycle
- Includes sterile, clinical grade, GMP-processed reagents for ADRC extraction
- Streamline integration with StemSource Custom Web Application



Cytori Therapeutics Customer Service:  
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# StemSource® Cell Bank Process Flow

The Stemsources Cell Bank was designed to cryopreserve ADRCs in five stages to ensure quality, reproducibility, traceability, and sample integrity for every process.

## 1 Gowning

- Ensures operator safety and sample integrity

## 2 Barcoding

- Ensures safe acquisition of tissue with validated logistics protocol
- Web-based processing and data management application
  - Generates unique barcode identifier
  - Stores patient information
  - Guarantees strict chain of custody

## 3 Processing

- StemSource: Adipose-Derived Regenerative Cell (ADRC) extraction technology
- Puregraft: Adipose filtration technology
- Web Application displays step-by-step instructions
- Automates recording of processing components to maintain traceability

## 4 Cryopreservation

- Preserves cell integrity during freeze cycle
- Streamlines sample transfer to cryocontainer
- Preserves viability during freeze cycle with validated controlled rate freezing

## 5 Cryostorage

- Stores samples in vapor phase nitrogen
- Eliminates risk of cross contamination
- Continuously monitors and maintains storage temperature
- Simplifies sample retrieval using customized inventory storage system

For additional product information such as pricing and/or availability please contact Cytori Customer Service: **+1.858.875.5245** or **customerservice@cytori.com**

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### CAUTION:

THE STEMSource® CELL BANK IS INTENDED FOR BANKING OF CELLS FOR AUTOLOGOUS USE ONLY.