



Tissue Banking Products Catalog

Biomedical Packaging Systems and Single Use Supplies



About Instant Systems



Our mission is to create products for best patient outcomes. For nearly 30 years Instant Systems has brought innovative products and services to the biotechnology market. As rapid advances in biotechnology continue, specifically in areas of cell-based assay/culturing, tissue engineering/regeneration, biopharmaceuticals and fermentation, Instant Systems continues to spearhead the next generation of products designed to anticipate and solve future challenges facing these fast growth markets.

Diversity, equity, and inclusion is central to this mission. We know that a diverse and inclusive team, with different experiences and perspectives has a positive impact on the products we produce.

Our corporate offices, production facilities, research & development, and distribution centers are located in cities of Norfolk and Virginia Beach in the state of Virginia.



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CryoLoc™ Freezing Bags

Protection down to -190°C

When it comes to preserving valuable human tissues, reliability and sterility are paramount. CryoLoc™ Freezing Bags from Instant Systems provide the highest level of protection for tissue samples, ensuring that your stored materials retain their integrity and viability through freezing, storage, and transportation. Whether you're storing placental grafts, bone tissue, or other critical biological materials, CryoLoc ensures that your samples remain viable and ready.

Key Features

- **Optimal Tissue Preservation:** Engineered to maintain integrity at cryogenic temperatures, ensuring that samples are preserved in their optimal state for future use.
- **Leak-Proof Design:** Designed with advanced sealing technology to prevent leaks, protecting tissues from contamination and ensuring no loss of valuable material.
- **Sterile, Single-Use:** Our sterile, single-use freezing bags are sterilized to SAL 10^{-6} .
- **Size Flexibility:** CryoLoc bags come in a variety of sizes to accommodate a range of tissue products.
- **Traceability with Lot Numbers:** CryoLoc bags are lot number tracked for easy traceability, ensuring full compliance with regulatory requirements.
- **Customizable Configuration Options:** Choose from ported or non-porting, open-ended or closed systems, with multiple connection alternatives including sealed tubing, luers, valves, needle-free swabable connectors, and more, tailored to your specific tissue banking needs.
- **Premium-Grade Materials:** Crafted from medical-grade, high glass transition temperature materials, ensuring flexibility and durability even in extreme cryogenic conditions.

Single ported bag
with tubing set



Applications

- Cryopreservation of human tissues for transplantation
- Long-term storage of tissue samples for research
- Preservation of bone, placental, and other allograft materials
- Safe transport of cryogenically frozen tissue grafts



50 mL bag with protected spike port and luer/cap



15mL ported pouch with swabable valve



200mL double ported pouch with tubing sets



Large Tissue Vessel

CryoLoc™ Overwraps

Protection down to -190°C

When it comes to safeguarding your tissue products during cryogenic storage and transportation, CryoLoc™ Overwrap provides the important extra layer of protection. Designed to work in tandem with CryoLoc Freezing Bags, CryoLoc Overwraps offer an enhanced barrier against contamination, ensuring your tissue products are safeguarded from external factors.

Chevron peel pouch
with label pocket

Corner peel pouch

Simple overwrap



Double-sided two
pocket peel pouch

Easy peel chevron pouch
with label pocket

Key Features

- **Enhanced Contamination Protection:** Acts as a secondary and even tertiary barrier to ensure that your primary freezing bag and its contents remain secure, even in the most challenging environments.
- **Cryogenic Stability:** Built to withstand the same extreme temperatures as CryoLoc Freezing Bags, providing consistent performance down to -190°C .
- **Sterile, Single-Use:** CryoLoc Overwrap is sterile to SAL 10^{-6} and single-use, reducing contamination risk and offering a trusted, secure solution for sensitive biological materials.
- **Durable Material:** Manufactured from medical grade, high-strength, puncture-resistant materials that ensure protection against mechanical damage during handling, storage, and transport, even in a frozen state.
- **Label Pocket Options:** CryoLoc Overwrap includes label pockets in a variety of configurations, including full label pocket, dual label pocket, tear-off, integrated, operator-created, single sheet flaps, and even an additional IFU storage pocket.
- **Compatibility:** Tailored to seamlessly fit over CryoLoc Freezing Bags, allowing flexibility for various sizes and configurations.

Applications

- Overwrapping of CryoLoc Freezing Bags for additional protection
- Safeguarding cryopreserved tissues during freezing operations, storage and transportation
- Use in conjunction with other cryogenic storage systems



Easy peel chevron pouch
with label pocket

CryoLoc™ CV

Protection down to -190°C

The CryoLoc™ CV Line is specifically engineered to provide complete protection for cardiovascular (CV) tissues during cryopreservation, storage, and transport. With its innovative design and highly inert materials and with customizable pouch systems, built-in traceability, and aseptic presentation in the OR, CryoLoc CV is the ideal solution for cardiovascular tissue preservation.

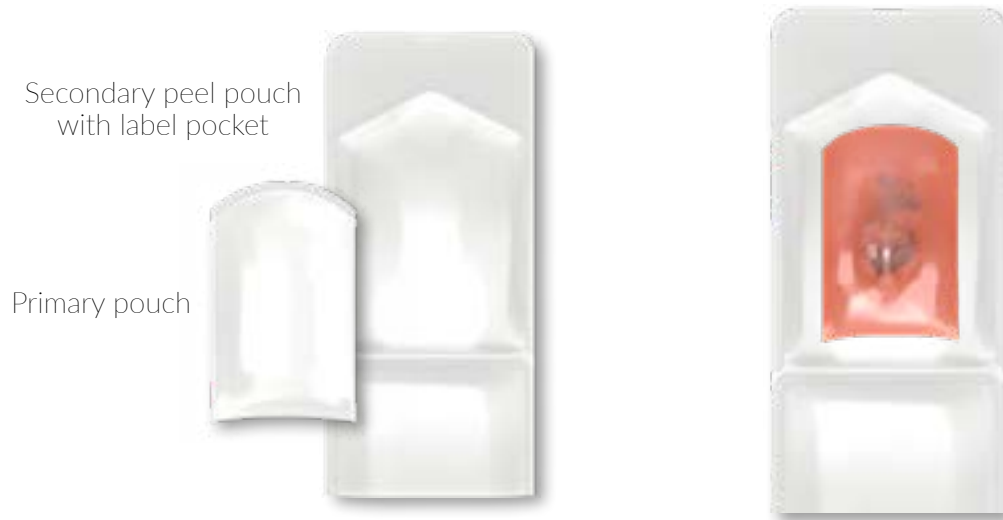
Key Features

- **Dual-Pouch System:** The CV line consists of a primary (inner) pouch, designed with a rounded structure to cradle CV tissues securely. The inner pouch fits perfectly within an outer peel pouch, providing full protection and ease of handling. The dual-pouch system also allows for the aseptic presentation of tissues within the operating room (OR).
- **-190°C Protection:** Built to withstand extreme cryogenic temperatures, ensuring that tissues are fully protected throughout the entire process.
- **Highly Inert Materials:** Designed to be highly inert to cryopreservation agents, including DMSO, maintaining the integrity of the tissues.
- **USP Class VI Compliant:** Manufactured from materials that conform to USP Class VI standards, ensuring the highest level of safety and biocompatibility.
- **Traceability with Lot Numbers:** CryoLoc bags are lot number tracked for easy traceability, ensuring full compliance with regulatory requirements.
- **Multiple Configurations:** Available in two versions—CV and aortoiliac—both offered in either a two-pouch or three-pouch system for customizable protection.
- **Label Pocket Options:** CryoLoc Overwrap includes integrated label pockets for traceability and compliance.

Applications

- Cryopreservation of cardiovascular tissues for transplantation
- Long-term storage of CV and aortic iliac tissues
- Safe transport and aseptic presentation of cryopreserved cardiovascular tissues within the OR

Standard CV Kit



Triple CV Kit



CryoLoc™

Cassette & Shipping System

CryoLoc™ Cassette

Maximize your freezer efficiency with the CryoLoc™ Cassette. Designed to integrate seamlessly with other CryoLoc™ products, this system ensures a “perfect fit” in your freezer, eliminating wasted space and preventing potential breaches during storage.



CryoLoc™ Shipping System

Experience a complete, turn-key solution for the final packaging and labeling of tissues destined for distribution. Our expert team tailors each shipping system using the finest materials, considering specific shipping conditions to maximize space efficiency with “perfect fit” designs.

Included Components

- **Foam Inserts:** Customizable protection for sensitive contents.
- **Product Boxes:** Durable and designed for secure transport.
- **Labels:** Clear and concise for easy identification.
- **Overwraps:** Additional protection against external elements.



Shipping Validation Service

Take advantage of our expert validation services to ensure your shipping processes are both quick and compliant. Our team’s profound expertise guarantees that your products meet all required shipping standards efficiently.



RecoLoc™ Tissue Recovery Bag

Protection from ambient to -190°C

The RecoLoc™ Self-Sealing Tissue Recovery Bag offers a premier storage solution, securely sealing tissues at the site of recovery without the need for sealers, closures, or clamps.

Key Features

- **Easy Self-Sealing Mechanism:** Each RecoLoc™ bag includes a built-in self-sealing system, securely enclosing tissues without the need for additional sealing tools such as sealers, clamps, or ties.
- **Ambient to Cryogenic Temperature Durability:** RecoLoc™ bags are robust enough to withstand freeze-thaw cycles, making them ideal for both ambient and cryogenic storage conditions.
- **Puncture-Resistant Material:** Designed with high-strength materials to ensure the secure containment of even the most challenging tissues, reducing the risk of tears or punctures.
- **Clear for Visual Inspection:** The clear design allows for easy visual inspection of contents without the need to open the bag, maintaining sterility and protecting the tissues.
- **Wide Range of Sizes:** Available in various sizes to accommodate different tissue types and recovery needs.

Applications

- Tissue recovery storage
- Secure transport of recovered tissues
- Long-term storage of tissues in cryogenic, freezing, or ambient conditions



Open recovery bag



Closed recovery bag

OsteoLoc™ Bags

Protection down to -80°C

OsteoLoc™ provides a robust, versatile packaging solution for bone tissue preservation and processing. Engineered to simplify the preparation and handling of lyophilized human bone tissue as well as larger bone grafts, OsteoLoc reduces the number of handling steps while offering unmatched protection for a wide range of tissue types and conditions.

Key Features

- **Protected Down to -80°C:** Designed to preserve bone tissue in extreme cold storage environments, OsteoLoc ensures that tissues remain stable and secure.
- **Ported Version for Hydration:** A specialized ported version allows for hydration events, making rehydration of tissues easy and efficient.
- **Scaffolding for Fragile Tissues:** Built-in scaffolding protects delicate and fragile tissues, minimizing the risk of damage during handling, storage, and transport.
- **Gusseted Bags for Larger Tissues:** Gusseted bag designs accommodate larger dimensional bone tissues, providing ample space and protection for complex grafts.
- **Closed System for Powdered Products:** Closed-system designs are available for the secure handling of powdered bone products, ensuring sterility and integrity throughout the process.
- **Robust Materials:** Constructed from high-durability materials, OsteoLoc is built to withstand harsh or sharp biological contents, ensuring reliable protection even under challenging conditions.
- **Aseptic Presentation with Overwraps:** Optional overwraps are available for aseptic presentation in operating rooms or clinical environments, ensuring tissues remain sterile and ready for use.

Ported Peel Pouch



Applications

- Packaging and preservation of lyophilized human bone tissue
- Storage and transport of powdered bone products
- Handling and protection of fragile bone tissue scaffolds
- Aseptic presentation of bone tissues in clinical settings
- Products that require rehydration before use
- Larger bone grafts, including condyles

Gusseted Bag



OsteoLoc™ Shipping System

The OsteoLoc™ Shipping System offers turn-key solutions for final packaging and labeling of tissues for distribution. Let our team create your shipping system, using best materials based on shipping conditions and “perfect fit” designs to optimize precious space.

Included Components

- **Foam Inserts:** Customizable protection for sensitive contents.
- **Product Boxes:** Durable and designed for secure transport.
- **Labels:** Clear and concise for easy identification.
- **Overwraps:** Additional protection against external elements.

Shipping Validation Service

Take advantage of our expert validation services to ensure your shipping processes are both quick and compliant. Our team’s profound expertise guarantees that your products meet all required shipping standards efficiently.



DermaLoc™ High Barrier Pouch

Ambient temperature protection

DermaLoc™ provides a high-barrier pouch system specifically designed for the secure storage of placental and dermal grafts at ambient temperatures. With its superior barrier properties and flexible design, DermaLoc ensures that your grafts remain safe, sterile, and ready for use in any clinical setting.



Key Features

- **High Barrier Properties:** Engineered to offer low oxygen transmission rates (OTR) and low moisture vapor transmission rates (MVTR), DermaLoc effectively protects sensitive tissues from environmental exposure. The material also provides high resistance to tears and punctures, ensuring the integrity of the stored grafts.
 - **Sterile, Single-Use:** DermaLoc pouches are sterile and single-use, minimizing the risk of contamination and ensuring the highest level of protection for sensitive grafts.
 - **Clear for Visual Inspection:** The clear design allows for easy visual inspection of contents without the need to open the bag, maintaining sterility and protecting the tissues.
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- **Peelable Nesting Design:** DermaLoc is available in double and triple pouch systems, with a peelable nesting design that enables aseptic presentation of grafts within sterile environments.
 - **Complete Range of Sizes:** DermaLoc pouches come in a full range of sizes, providing a perfect fit for various tissue types and handling needs.

Applications

- Storage and preservation at ambient temperature
- Long-term storage
- Aseptic presentation of grafts in sterile environments
- Protection for shelf-stable, dehydrated allografts

DermaLoc™ Ported Peel Pouch

Protection for ambient, down to -80°C and down to -190°C

DermaLoc™ Ported Peel Pouches offer a high-barrier packaging solution designed specifically for the safe handling and placement of fragile tissues. A closed hydration system, with optional transfer device, DermaLoc Ported Peel Pouches ensure maximum control and protection throughout storage, transport, tissue manipulation and final placement.

Fragile Tissue Protection

- **Transfer Device:** This feature allows for easy manipulation, removal, and placement of fragile tissues, providing ultimate control and minimizing handling risks during placement.
- **Peelable Design for Easy Tissue Removal:** The easy-to-open peelable design ensures that tissues are completely free of packaging before handling, without the need for pulling or pushing, ensuring effortless removal and reducing the risk of tissue damage.
- **Damage Prevention:** Pouches that require cutting or tearing increase the risk of tissue damage and debris contamination. The peelable DermaLoc design eliminates these risks, providing a safer alternative.
- **Closed System Hydration:** A closed system with a needleless, swabable valve allows for efficient hydration events. By pulling a slight vacuum before hydration, the process occurs more rapidly, using lower fluid volumes for greater efficiency.
- **High Barrier Properties:** As with other DermaLoc products, these pouches can feature low oxygen and moisture vapor transmission rates, along with high resistance to tears and punctures.
- **Complete Range of Sizes:** Available in a variety of sizes to accommodate different tissue types and handling needs.



Applications

- Safe preservation and handling of fragile tissues
- Controlled hydration of tissues within a closed system
- Aseptic presentation and precise placement of tissues in clinical settings

OraLoc™ Allograft Packaging

Protection for ambient, down to -80°C and down to -190°C

OraLoc™ is engineered for the secure packaging of dental apportioned allografts, offering the ability to dispense small volumes while retaining unused portions in undisturbed pouches. Available in multiple pouch configurations and designs, OraLoc provides efficiency and security for dental tissue handling.

Key Features

- **Flexible Dispensing:** Allows economic dispensing of smaller allograft volumes, reducing waste while retaining unused portions safely.
- **Perforated Pouches:** Easy removal of one unit at a time through perforated sections, preventing contamination of remaining units.
- **Multiple Configurations:** Available in 6, 8, and 12 pouch units, designed to hold 2mL to 15 mL per unit.
- **Design Options:** Including ported or non-ported pouches with needleless swabable valve for safe efficient hydration or other connectors available to fit your specific system requirements.
- **For All Temperatures:** OraLoc is available for use across cryogenic, freezing, and ambient temperatures.
- **Opening Options:** Choose from peel, tear notch, or cut open designs based on your application.



Applications

- Dental allograft packaging and storage for cryogenic to ambient conditions
- Aseptic dispensing of smaller allograft volumes in clinical settings
- Controlled hydration of tissues within a closed system



Single packet with overwrap



8-Piece packet



8-Piece packet with overwrap



CranioLoc®

Cranial Bone Flap Storage

CranioLoc® Storage System

The CranioLoc® Storage System is designed specifically for use in the collection, storage, and aseptic presentation of cranial bone flaps. The sterility sleeve ensures aseptic sealing of contents, while the double peel pouch configuration allows for aseptic presentation of bone flap for reintroduction.



CranioLoc® Storage System Kit

- A. Sterility sealing sleeve
- B. 7.5" x 9" peel pouch
- C. 9" x 10" peel pouch

Effective for

- Bone flaps under 6 inches (15.24 cm) in diameter
- Storage conditions to -80° Celsius

CranioLoc® Plus

The CranioLoc® Plus is an add-on to the CranioLoc® Storage System to accommodate bone flaps larger than 6 inches (15.24 cm) diameter.



Add On to CranioLoc® Storage System

- D.** Sterility sealing sleeve
- E.** 10.5" x 11.5" peel pouch

*C not included in CranioLoc® Plus

Effective for

- Bone flaps between 6" and 9" (15.24 cm and 22.86 cm) in diameter
- Storage conditions to -80° Celsius



Sealers

High Performance and Validatable Medical Sealers

Model 830

Medical Sealer with the flexibility to fit your process perfectly

Flexibility

The Model 830 heat sealing system offers versatile setup options with a compact seal head and separate control unit. It can be mounted in various orientations and locations, and the touchscreen can be adjusted for ease of use.

Customer Focus

Built for customer needs with a modular design, user-friendly interface, and process fault alarms. It supports multiple recipes and offers robust performance and durability.

Process Validation

Fully validatable and calibratable to ISO 11607 standards, with password-protected alarms, digital controls, and external calibration ports.

Performance

Designed for precise and reliable operation with high-quality materials. Features a durable stainless steel case.

Customer Service

Includes a Two-Year Limited Warranty and responsive support. Made in the USA.

Specifications

- **Seal Widths:** 3/8"
- **Seal Lengths:** 15", 20", 25", 30"
- **Power:** 120 Vac, 10 Amps
- **Air:** 1.0 CFM @ 80 Psi
- **Sizes:** Control Case (20" H x 8" W x 16" D), Seal Head (Seal Length +5.5" L x 6.75" H x 5" W), HMI Touchscreen (1.3" H x 7.5" W x 4.7" D)
- **Weight:** 40-60 lbs.

Options

Factory: Dual Heat, Digital Line Voltage Monitor, 220 VAC/CE, Initial Calibration. Custom options available.





8000 Series

Medical sealer with quick-release vacuum system

Overview

The Model 8000 is a compact, high-performance pouch sealer with advanced Venturi vacuum capability and user-friendly controls. Its “Quick-Release” system allows for easy maintenance, and it accommodates pouches with a 1” header space. The wide jaw opening and adjustable support tray ensure versatile bag positioning.

Innovative Solutions

Features include a “Quick-Release System” for easy cleaning, a linear element tensioner for reliable performance, and a vacuum/seal bar design that supports small header pouches.

Customer Focus

Designed for compact spaces and ease of use, it includes alarms, multiple operating modes, recipe storage, and both upper and lower heat capabilities.

Process Validation

Offers ISO 11607-compliant temperature control, digital process management through an LCD touchscreen, and external calibration ports. It is RoHS and CE certified.

Performance

Constructed from high-quality materials with a durable stainless steel case.

Customer Service

Includes a Two-Year Limited Warranty. Made in the USA.

Specifications

- **Seal Lengths:** 8”, 11”, 16”
- **Seal Widths:** 1/4”, 3/8”
- **Vacuum Pressure:** Up to 26 in Hg
- **Suction Flow:** 1.3 SCFM
- **Power:** 120 Vac, 16 Amps
- **Air:** 2 SCFM @ 90 Psi
- **Case Size:** 13.5” W x 14.5” D x 19.5” H
- **Weight:** 75 lbs.

Options

Includes data acquisition, vacuum particle filter, exhaust silencer, 220 VAC conversion, and high-temperature settings.

Sealers

High Performance and Validatable Medical Sealers

5300SP Series

Economical medical pouch sealer with total process control

Product Evolution

The Model 5300SP features enhanced performance and reliability with new design improvements, maintaining its status as a cost-effective, validated sealing solution.

Process Validation

Designed to meet ISO 11607 standards, the 5300SP offers precise control and repeatability with PLC electronic controls, an LCD touchscreen HMI, and password-protected settings for seal parameters and alarms.

Product Enhancements

Includes a high-resolution HMI, advanced PLC control module, improved seal bar, and detachable power and foot pedal cables.

Value

Accu-Seal heat sealers are built with high-quality materials for long-lasting performance and reliability, offering excellent value.

Built to Last

Constructed with seamless, laser-cut stainless steel and bulkhead fittings for durability and ease of maintenance.



Specifications

- Seal Lengths: 15", 20", 25"
- Seal Width: 3/8" Standard
- Power: 120 VAC, 10 A (15", 20"); 15 A (25")
- Air: 1.0 CFM @ 80 PSI
- Size: Length = Seal Length + 6.5"; Depth: 10"; Height: 6" (case) / 10" (seal bar open)
- Weight: 25-40 lbs.

Built-In Features

- LCD Touch Screen and PLC control
- Password-protected settings
- External calibration ports
- Visible and audible alarms
- High-force seal jaw
- Product support tray

Factory Options

- 220 VAC / CE
- Initial Calibration
- Data Acquisition
- Electronic Pressure Regulator
- External Exhaust Port
- Ergonomic Stand
- Ultra-Quiet Compressors



Model 6300SP

Medical sealer with quick-release vacuum system

Overview

The Model 6300SP is an advanced version of the 6300 sealer, designed for medical and critical packaging. It features an improved HMI digital display, heavy-duty seal bar, and precise temperature control to meet stringent FDA validation requirements.

Validation

Compliant with ISO 11607, it offers reliable performance and easy validation during IQ, OQ, and PQ. It is CE compliant and simplifies process control with password protection and programmable seal recipes.

Protected

Equipped with a digital PLC controller, password protection for seal parameters, and alarms for various issues. It also supports multiple seal recipes and offers robust protection against harsh environments.

Solutions

- NEMA 4-rated stainless steel construction
- Optional Data Acquisition System (DAS) and Ethernet port
- Available initial calibration and technical support

Value

High-quality materials and components ensure exceptional performance and reliability. Backed by a Two-Year Limited Warranty, Accu-Seal products offer great value.

Specifications

- Seal Lengths: 15", 20", 25", 30"
- Seal Width: 3/8" Standard
- Power: 120 V, 15 A (Upper Heat); 20 A (Dual Heat)
- Air: 1.0 CFM @ 90 PSI
- Size: Length = Seal Length + 5.5"; Width: 12"; Height: 8"
- Weight: 25 lbs

Factory Options

- Data Acquisition System (DAS)
- Initial Calibration
- 220 VAC Conversion
- Digital Line Voltage Alarm
- CE Certification

Custom Options

Includes ergonomic stand and safety guard.

Sterile Kit Assembly Services

Kitting & Assembly

Instant Systems provides tailored sterile kit assembly services for a wide range of medical and biotech applications. With Class 6 cleanrooms and ISO 9001/13485 compliance, we ensure every kit meets the highest industry standards, delivering accuracy, traceability, and reliability.

Key Features

- **Custom Sterile Kits:** Assembled to your exact specifications for seamless integration into your processes.
- **Full Traceability:** Complete tracking from raw materials to finished kits for compliance and quality assurance.
- **Validated Sterilization:** Our sterilization processes are validated to ensure compliance and product integrity, achieving sterilization levels up to SAL 10^{-6} .
- **Choosing the Right Technique:** The right sterilization technique is crucial for maintaining product integrity and compliance. We offer a comprehensive suite of sterilization services, including EO, steam, and gamma, tailored to meet the unique needs and demands of each product.
- **Quality Assurance:** All operations are guided by a Quality Management System (QMS) compliant with 21 CFR 820, ISO 13485 certified, and conducted in Class 6 cleanrooms.

Applications

- Birth tissue kits
- Tissue recovery kits
- Convenience kits
- Medical device assembly
- Biotech manufacturing components





Cell Therapy Solutions

See our cutting-edge cell therapy solutions that perfectly fit into your process.





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