

Precision

Allograft Solutions



Introducing our Revolutionary
PASCO₂[®] Technology

Innovation
Quality
Service

A leading supplier of allograft tissue

REVOLUTIONARY PASCO₂[®] TECHNOLOGY

Precision Allograft Solutions and Alamo Tissue Service are proud to introduce the revolutionary PASCO₂ technology. This technology utilizes supercritical CO₂ to cleanse and sterilize allograft tissue. In its supercritical state CO₂ can effuse through solids like a gas and dissolve materials like a liquid. ⁽³⁾

PASCO₂ technology balances pressure and temperature of SCCO₂ extracting blood and lipids from the allografts. The low temperature of the process and the stability of CO₂ allow compounds to be extracted with no damage or denaturing to the tissue. ⁽⁶⁾ PASCO₂ allografts are processed to a validated sterility assurance level (SAL) of 10⁻⁶ as recommended by the AATB and FDA.

ADVANTAGES OF PASCO₂[®] TECHNOLOGY

COMPARED TO OTHER PROCESSING METHODS
(1,2,4)

- Thoroughly inactivates pathogenic microorganisms
- Allows for increased cell proliferation
- Assists with reduction of postoperative inflammation and foreign body reaction
- Reduces incorporation time
- Increases tissue's ability to endure physiological demands

A new and enhanced way to sterilize allograft tissue

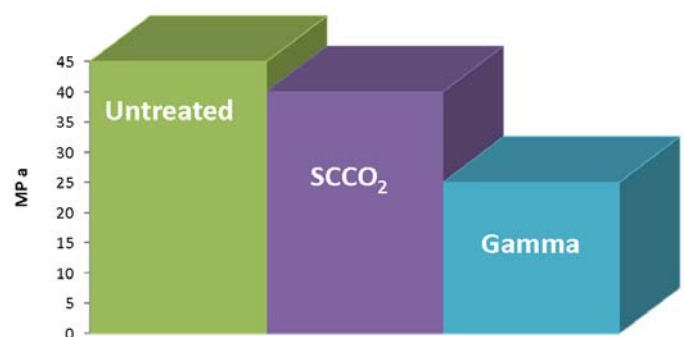
ACCREDITATION AND COMPLIANCE

Precision Allograft Solutions is accredited by the American Association of Tissue Banks and registered with the U.S. Food and Drug Administration. Please contact us or visit our website for copies of our accreditations.

REVOLUTIONARY STERILIZATION PROCESS

SCCO₂ sterilized allografts exhibit biomechanical properties closer to those of natural tissues when compared to those treated with gamma irradiation. ⁽⁴⁾

Tensile Strength



Honoring the gift of donation

Extreme care is taken to ensure that donor tissue is recovered, processed, and distributed in a way that gives the utmost respect to donors and is most beneficial to recipients. Precision Allograft Solutions is committed to honoring the gift of donation by providing safe, high quality PASCO₂ allografts to the medical community.

CUTTING EDGE TECHNOLOGY

PASCO₂ technology is a cutting-edge allograft processing technique. It combines

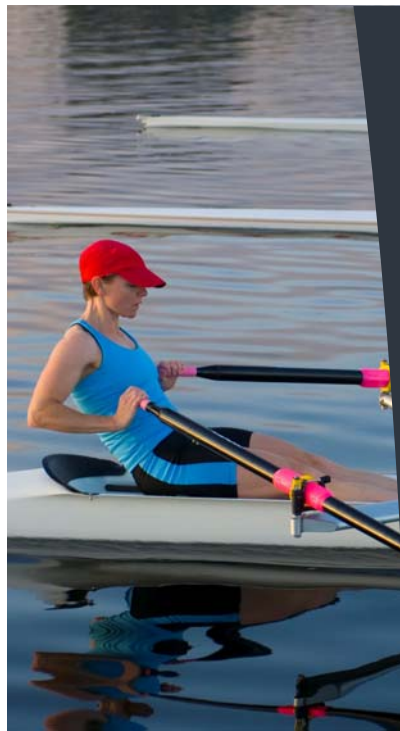
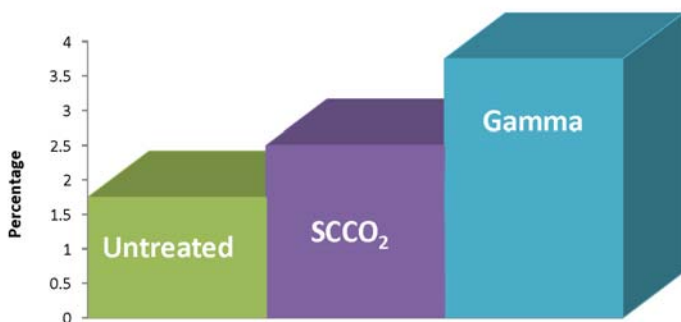
the principles of supercritical CO₂ with that of traditional chemical and mechanical steps for the removal of organic materials, such as blood particles and lipids, from both hard and soft tissues. In addition to a highly effective validated washing procedure, PASCO₂ technology utilizes a mild, non-toxic sterilizing agent, to thoroughly inactivate pathogenic microorganisms^(1,2,4) and achieve a Sterility Assurance Level of 10⁻⁶ while simultaneously maintaining biocompatibility⁽⁵⁾ as well as the physiological properties and mechanical integrity of the tissue.^(4,6)

Trained surgical technicians in certified Class 100 clean rooms utilize this^(1,2,4) proprietary, validated process based on ISO 14937:2009 (sterilization requirements for Health Care products) to process donated human tissue into high quality PASCO₂ allografts. Precision Allograft Solutions provides tissue crafted with exacting standards for use in a variety of surgical procedures.

EXCLUSIVE PASCO₂[®] TECHNOLOGY

Research has shown that allograft tissue sterilized using SCCO₂ better maintain their elastic properties and strength as compared to tissue treated using other, more traditional, sterilization methods.⁽⁴⁾

Creep



STERILITY

PASCO₂ technology thoroughly inactivates pathogenic microorganisms and achieves a sterility assurance level (SAL) of 10⁻⁶.^(1,2,4)



QUALITY

Allografts processed with PASCO₂ technology allow for increased cell proliferation as a result of blood and lipid removal.⁽⁵⁾

PASCO₂ technology grafts retain their original biologic and biomechanical properties (maintaining their ability to endure the physiological demands placed upon them after surgery) better than gamma irradiated allografts.^(4,6)



INNOVATION

Allografts processed with PASCO₂ technology assist with the reduction of postoperative inflammation and foreign body reaction thereby reducing incorporation time.⁽⁶⁾



TISSUE BANKING WITH A HEART

We go to great lengths in the screening, recovery, processing, storage, and distribution of donor tissue to maintain the utmost respect for donors and maximize the benefit for allograft tissue recipients.

¹PAS Validation 13-25, Performance Qualification

²PAS Validation 13-26, Performance Qualification

³Fages, J., Marty, A., Delga, C., Condoret, J., Combes, D., & Frayssinet, P. (1994). Use of supercritical co2 for bone delipidation. *Biomaterials*, 15(9).

⁴White, A., Burns, D., & Christensen, T. (2005). Effective terminal sterilization using supercritical carbon dioxide. *Journal of Biotechnology*.

⁵Frayssinet, P., Rouquet, N., Mathon, D., Autefage, A., & Fages, J. (1998). Historical integration of allogeneic cancellous bone tissue treated by supercritical co2 implanted in sheep bones. *Biomaterials*, Abstract.

⁶Nichols, A., Burns, D., & Christopher, R. (2009). Studies on the sterilization of human bone and tendon musculoskeletal allograft tissue using supercritical carbon dioxide. *Journal of Orthopaedics*, 6(2)e9, Retrieved from www.jortho.org.

⁷Lomas, R., Drummond, O., & Kearney, J. N. (2000). Processing of whole femoral head allografts: A method for improving clinical efficacy and safety. *Cell and Tissue Banking*.

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A surgeon must always rely on his or her own professional clinical judgment when deciding whether to use a particular product when treating a particular patient. Stryker does not dispense medical advice and recommends that surgeons be trained in the use of any particular product before using it in surgery. The information presented is intended to demonstrate the breadth of Stryker product offerings. A surgeon must always refer to the package insert, product label and/or instructions for use before using any Stryker product. Products may not be available in all markets because product availability is subject to the regulatory and/or medical practices in individual markets. Please contact your Stryker representative if you have questions about the availability of Stryker products in your area.

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