

Veterinary Transplant Services, Inc.

The world's first animal tissue bank

Veterinary Transplant Services, Inc. (VTS) is the world's first animal tissue bank. Since our formation in 1996, we have provided tens of thousands of allografts to veterinarians for clinical use. Because of our unique and highly specialized expertise in animal tissue banking and our long experience in human tissue banking, researchers and scientists in the nation's leading academic medical centers and research organizations, as well as those in the biotech and pharmaceutical sectors, have also come to rely on VTS as a source of clinical quality animal tissue grafts customized to their specifications.

Why outsource animal tissue procurement & processing?



All allograft is not the same.

For successful research and pre-clinical trial projects, the use of clinical-quality allograft is essential. Only allograft that has been processed according to current Good Tissue Practices (cGTP) and tissue banking industry standards provides the level of consistency and predictability of tissue graft used in a clinical setting. Using sub-standard graft puts the success of your study at risk.

Our experience puts you ahead of the learning curve.

We draw upon more than 30 years of combined tissue banking experience within our team. The result is knowledgeable staff, efficient processes and fine-tuned SOPs for everything from donor screening, aseptic procurement techniques, and protein-preserving demineralization procedures to sterile packaging and preservation methodologies - all specifically for animal tissue. And all can be fine-tuned to your project requirements.

Efficiency and consistency.

There is a certain art and science to tissue procurement, processing, and packaging. Outsourcing to an experienced team provides a high quality, consistent product and can be the most time- and cost-efficient option.

Predictability of time and cost.

Estimating the time involved in procuring and processing tissue, assuring sterility, and developing the necessary documentation can be challenging. We provide a quote and a timeline you can count on.

Your customization options include:

Production and Preservation

- Aseptic, Class 1000 clean room processing
- Preparing negative controls (e.g., heat, guanidine)
- Demineralization
- Specific particle size sieving
- Cryopreservation
- Snap freezing
- Ultra Cold and Liquid Nitrogen storage
- Irradiation
- Multi-sample acquisition

Assessment

- Residual moisture determination
- Residual calcium assay
- Viability (AO/PI fluorescence microscopy)
- Microbiologic assessment
- Osteoinductivity assessment

Packaging

- Bulk packaging
- Individual unit dose packaging by weight or volume
- Capsules, vials, syringes, packets, pouches, etc.
- Triple-peel packaging for aseptic delivery onto a sterile field



VETERINARY TRANSPLANT SERVICES, INC.

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Why researchers use Clinical Quality Tissue:

Allograft = Allograft = Allograft? True False

To achieve desired results in your research projects and pre-clinical trials, it is essential to use clinical quality allograft/xenograft processed according to current Good Tissue Practices (cGTP) and tissue banking industry standards. Here is why:



- **Predictable graft attributes:** You know what attributes you want your graft to carry. But do you know how to reliably achieve those attributes? Consistently and predictably producing tissue grafts that are osteoinductive, for example, or provide certain biomechanical features, requires established and tested protocols, state-of-the-art tissue banking know-how, and industry experience. We draw upon more than 30 years of combined tissue banking experience within our team, efficient processes, and specialized, cGTP-compliant SOPs to provide you with tissue grafts that carry your desired attributes.
- **Consistency:** Only consistent starting materials lead to consistent study results. Thanks to our established tissue processing protocols and QA systems we are able to provide the consistency you are looking for.
- **Sterility for implant studies:** Ensuring sterility throughout tissue procurement, processing, demineralization, and packaging requires established and validated SOPs and Quality Assurance systems.
- **Documentation:** We provide Certificates of Compliance and traceability documentation for all products and can provide additional detailed documentation upon request.

Why researchers choose VTS:

Experience and high quality.

VTS has a proven 15 year track record of successfully supplying quality tissue allografts for both clinical use and for customized product development and pre-clinical trial studies. We apply cGMP, cGLP, and cGTP protocols and can provide documentation of details of your procurement and production protocols.

Specializing in animal tissue.

VTS is a veterinary tissue bank exclusively providing animal tissue specifically intended and designed for use in veterinary patients or in research projects involving animals.

Customization.

We will apply standard processing protocols or use customized tissue procurement, processing, and preservation methods that are required by your specific project. We will prepare and ship animal tissues precisely according to your research protocols.

Reliable and responsive.

Our streamlined animal sourcing and retrieval procedures and experience with regulations concerning animal care and use and the handling of biomaterials ensures rapid delivery of high-quality graft material. This is why outsourcing the tissue procurement process is the most time- and cost-efficient way to go for our clients.



Call us to discuss how we can help with your next project.

Our clients range from start-up ventures to Fortune 500 companies and large research institutions; our projects vary from custom-packaging of our in-stock tissue to large-scale processing of project-specific animal tissues.

MF#: CB2010-1203(O)-N



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