

The Nebraska Cardiovascular Biobank & Registry (NCBR) promotes human subjects research by providing streamlined access to human tissues and de-identified patient data.

BANKED TISSUE SPECIMENS

Cryopreserved \$35

Tissues slow-frozen in cryopreservation media (10% DMSO; 10% FBS; 80% DMEM). These tissues can be used for cardiomyocyte isolation and 'omics studies.

Flash Frozen \$35

Tissues frozen without prior embedding or treatment.

Optimal cutting temperature (OCT) \$40

OCT embedded tissues are frozen and enable frozen sectioning.

Formalin-fixed \$35

Tissues fixed in formalin to enable paraffin-embedding and imaging studies for formalin-fixed tissue.

AllProtect \$35

Tissues stored in AllProtect Tissue Reagent which stabilizes DNA, RNA, and protein. This preserves the in vivo profile of DNA, RNA, and proteins, allowing reliable downstream analysis for a range of applications.

RNA Later \$35

Tissues stored in RNA Later which stabilizes RNA in tissues and cells. This can be used in downstream applications such as mRNA and RNA isolation, histology, and immunohistochemistry.

BANKED BLOOD, CELL, NUCLEIC ACID SPECIMENS

Serum \$10

Collected in serum-separator tubes. Provided as 500 µl aliquots.

ACD Plasma \$10

Collected in tubes with acid-citrate-dextrose anticoagulant. Provided as 500 µl aliquots.

K2 EDTA Plasma \$10

Collected in tubes with K2 EDTA anticoagulant. Provided as 500 µl aliquots.

Peripheral Blood Mononuclear Cells (PBMC) \$50

Collected in glass tubes with K3 EDTA anticoagulant. Provided as 500 µl aliquots. 2x10⁶ cells.

DNA \$40

Collected from WBC extracted from ACD Plasma tubes. Provided as 200 µl aliquots.

RNA \$60

RNA isolated from blood collected in PAXgene Blood RNA Tubes followed by extraction using the PAXgene Blood RNA kit.

SPECIMEN REPOSITORY INQUIRY

Self-service browsing Free

Do you want to browse the specimens already available to determine what might be possible for your studies? We can help! Aliquot type, storage format and corresponding clinical data for all specimens in the NCBR are electronically archived in FreezerPro. Upon request, investigators intending to obtain specimens from the NCBR are provided access to browse our current inventory, including de-identified patient data.

**Will be available starting summer 2025.*

Assisted inquiry Free

If you do not want to browse on your own, simply request assistance when you complete the specimen request form (see link below) and our biobank managers will assist you.

Custom Patient Data Retrieval \$50/hr

Collection of non-standard patient data via chart review tailored to your studies.

PROCEDURE TYPES ROUTINELY COLLECTED

- Blood draw (inpatient, outpatient)
- Heart transplantation
- Heart valve surgery
- Left ventricular assist device implantation
- Congenital heart defect surgery
- Cardiac catheterization
- Rapid autopsy

TISSUE TYPES ROUTINELY COLLECTED

- Right ventricle
- Left ventricle
- Right atrium
- Left atrium
- Interventricular septum
- Apex
- Pulmonary artery
- Aorta
- Superior vena cava
- Inferior vena cava
- Left anterior descending artery

ON DEMAND SPECIMEN COLLECTIONS

If you do not see your desired specimen type in our menu, it is possible we can collect it for you or add it to our menu of routinely collected specimens. Prices vary depending on procedure type, procedure location, specimen type, and handling and storage requirements.

REQUEST SPECIMENS OR DATA

Complete the online specimen and data request form here:
<https://chvr.piestar.com/survey/NCBR-inquiry>