

CARDIOMYOCYTE ISOLATION

The Redox Molecular Signaling Core utilizes a proteolytic digestion and purification protocol to isolate neonatal rat and mouse cardiomyocytes. To initiate cardiomyocyte Isolation, contact the Redox Molecular Signaling core facility at RedoxMolSignalCore@lsuhsc.edu and schedule a meeting with Core Leaders to discuss the project timeline and deliverables.

To be provided by investigator:

- A completed Work Order Form brought to the meeting with Core Leaders.
- The investigator will schedule a 2 hour block of time to facilitate cardiomyocyte isolation by transferring euthanized rat pups (at least 7 rat pups, 1-3 days of age) or mouse pups to the Redox Molecular Signaling Core technicians.

To be generated by the core:

- For rat neonatal cardiomyocytes, the core facility will return approximately twenty 10 cm cell culture dishes of isolated rat cardiomyocytes at 2×10^6 cells per dish (~40 million cardiomyocytes per isolation). Litter sizes above the 7 pup minimum will likely result in higher yields.
- For mouse neonatal cardiomyocytes, the core facility is still in the process of determining how many isolated mouse cardiomyocytes can be expected per isolation.

Timeline: 3-4 days.