



Left Coronary Artery Ligation (Myocardial Infarction)

Surgery Code: MYOINFARC

The left coronary artery ligation model is of benefit to preclinical or research studies involving heart disease.

Animal Models

Male and female rat models, any strain, weight 200-250 g; anatomy and/or physiological conditions may dictate choice of strain, age and weight.

Procedure Details

- **Perioperative care:** Please view our Pre- and Postoperative Care Sheet, which can be found at www.criver.com/opcare.
- **Housing:** The animals may be group housed.
- **Diet:** No special diet is required.
- **Postoperative holding period:** At a minimum, post-op animals are held 3 days, with the majority of animals shipping within 7 days of surgery.
- **Maintenance:** Incision wound clips should be removed 7-10 days after surgery.

Surgical Summary

A transverse incision is made on the chest through the skin. The muscles are separated to expose the ribs, and an incision is made in the intercostal space between the fourth and fifth ribs. The chest is then opened to expose

the heart. A small needle with a piece of suture is passed through the pathway of the coronary artery, and the left anterior descending coronary artery is permanently ligated. The chest incision is closed with sutures. The skin incision is closed with wound clips.

IACUC

The Charles River Institutional Animal Care and Use Committee (IACUC) governs the entire surgical process, including all anesthesia, analgesia, animal preparation and any postoperative holding in Charles River facilities prior to shipment. Review of experimental protocols, authorization to order animals that are surgically modified from Charles River, and all aspects concerning the use of the animals after they arrive at the institution are the responsibility of the receiving institution's IACUC.

Contact Us

For more information, visit www.criver.com/surgery. For specific surgery-related questions, please contact our technical experts at 1.877.CRIVER.1 (1.877.274.8371) or askcharlesriver@crl.com. To place an order or get a quote, contact our Customer Service Department at 1.800.LABRATS (1.800.522.7287).