charles river

SURGICAL SERVICES - NORTH AMERICA

Ascending Aorta – Thoracic Aorta Banding

Surgery Code: AATABAND

The ascending aorta – thoracic aorta banding model is of benefit to preclinical or research studies involving the study of hypertension and/or heart disease. This acute/subacute model develops cardiac hypertrophy by 10-14 days after surgery and cardiac failure by 14-21 days after surgery.

Animal Models

Male and female rat models, typically 185-200 g; anatomy and/ or physiological limitations 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 can 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 midline ventral skin incision is made and mediastinum exposed. A portion of the ascending aorta, proximal to innominate artery (brachiocephalic), is isolated and a piece of ligature for restricting blood flow is placed around the vessel. Per request, the banding can be done using a hemoclip (provided by the customer). The 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).

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