



Hypophysectomy

Surgery Code: HYPOX or HYPOX1

The hypophysectomy (i.e., removal of the pituitary gland) is of benefit to preclinical or research studies involving the endocrine system.

Animal Models

Typical selections are listed below; however, choices for strain, age and weight may be limited due to model anatomy and/or physiological conditions.

Standard weights (HYPOX)

- Rats: male/female, any strain, weight 75–200 g

Nonstandard weights (HYPOX1)

- Rats: male/female, any strain, weight 40–74 g, 201–300 g

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. Warm environments (74–80 °F) will be beneficial for animals.
- **Diet:** Animals require a 5% glucose, sucrose or sugar water supplementation after surgery.
- **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

Using the pharyngeal approach, an incision is made on the ventral midline of the neck up to the mandible. The salivary glands are retracted and the osmohyoid muscle exposed. Using blunt dissection, the hypophysis (pituitary gland) is identified and the fine membrane covering it is incised. The hypophysis is then removed using gentle suction to aspirate the gland. 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 surgically-modified 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).