



Unilateral Microdialysis Brain Cannulation

Surgery Code: UNI-BMICRO

The unilateral microdialysis brain cannulation model is of benefit to preclinical or research studies involving brain microdialysis. This model requires that the customer supply the coordinates for the specific target.

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.

- Rats: male/female, any strain, weight \geq 150g.

Procedure Details

- **Perioperative care:** Please view our Pre- and Postoperative Care Sheet, which can be found at www.criver.com/opcare.
- **Housing:** The animals must be singly housed with adequate clearance to prevent cannula from coming in contact with the lid.
- **Diet:** No special diet is required.
- **Postoperative holding period:** At a minimum, post-op animals are held 2 days, with the majority of animals shipping within 7 days of surgery.
- **Maintenance:** Dummy caps should be checked on arrival and daily to ensure security.

Surgical Summary

The animal is placed in the stereotaxic apparatus. The bregma and lambda are then identified. Four anchoring screws are mounted onto the skull. A microdialysis

guide cannula is loaded into the holder of the stereotaxic apparatus. The cannula is placed over the specified target according to customer-specified coordinates. A layer of powdered bone graft material is applied to affix the cannula and cover the exposed portion of the skull, and a small amount of bone graft liquid is applied to the powder. Finally, a dummy cannula is inserted into the guide cannula.

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).