

Skeletal X-ray

Equipment: - Faxitron Specimen Radiography System Model MX-20 Digital (Faxitron X-ray Corporation, Wheeling, IL) http://www.faxitron.com/mx20_digital.htm

Supplies:

- isoflurane inhalation anesthetic
- plexiglas platform to hold anesthetized mouse
- masking tape

General Information:

The faxitron X-ray instrument produces a high resolution digital image of the mouse. Whole mouse (at 1x) or magnified areas (up to 5x) can be viewed for bone structure.

Procedure:

The instrument is warmed up and calibrated according to the manufacturer's instructions. The mouse is anesthetized with 2% isoflurane in 700 mL O₂/minute (induced in a chamber at 5% isoflurane and maintained by face mask). It is secured to the plexiglas platform with tape and placed inside the shielded chamber. The image is acquired using settings of 30kV and 10 seconds. See the example below.

Reported Results:

For each mouse, images are reviewed and any unusual finding is noted.

Acknowledgements:

The CMHD requests that the users of our screening service acknowledge the technical assistance of our facility in any presentations or publications that report results generated by our services. A suitable acknowledgement for publications is as follows: "The authors would like to acknowledge the Samuel Lunenfeld Research Institute's CMHD Mouse Physiology Facility for their technical screening services (www.cmhd.ca)."

Additionally, please send reprints or information on such publications or presentations when they are submitted or available. Such acknowledgements will help promote the use of our service and assist us in obtaining continued financial support to help defray service fees.

