

EchoMRI Body Composition Measurement

The EchoMRI Body Composition Analyzer provides a precise method for measurement of lean tissue, fat and fluid in living mice. This technology provides the opportunity to make multiple measurements during the life of the animal. This procedure is performed in R2 room 1089.

Procedures

1. Insert the tube with the standard of 34 g of canola oil on the distal end into the analyzer.
2. Open the EchoMRI program on the desktop.
3. Click “Folder” on the top of the screen.
4. Browse “New” and click “Yes” and hit “OK”.
5. Select “System Test” and hit “OK”. This will calibrate the system and the reading should be close to 34.
6. Put a mouse into the mouse tube and let it get to the bottom of the tube.
7. Insert the plunger and use gravity to gently push the mouse into the tube and secure its position with velcro.
8. Insert the mouse tube and select “Scan”.
9. Key in the mouse information and hit “OK” to start the scan. Allow 3 min for each mouse.
10. Transfer the data file to a thumb drive or write them down in a notebook.
11. Wash the mouse tube thoroughly in the wash room after completing the measurements for all the mice.