



Body composition (whole body)

Version: 1
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(note that the following list should be linked to the appropriate location.)

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Summary: *(This area will include a brief description of what the protocol is used for and why someone would need to use it.)*

The EchoMRI 3-in-1 uses ¹H- magnetic resonance spectroscopy to noninvasively measure whole body fat mass, lean mass, and water mass in awake mice. Whole body fat mass is a measure of adiposity that is altered in obesity. Whole body lean mass may be altered by exercise and in mouse models of altered metabolism.

Reagents and Materials: *(This should be a comprehensive list of stock solutions and material. The reagent list for the stock solutions is included in the reagent preparation area that is included at the end of this SOP.)*

Reagent/Material	Vendor	Stock Number
EchoMRI 3-in-1	Echo Medical Systems	

Protocol:

1. Place awake mice into an instrument column.
2. Measure whole body fat mass, lean mass, and water mass using instrument standard operating procedure.