

# MouseExpress® L-Lysine ( $^{13}\text{C}_6$ , 97%) Enriched Mouse Tissue

## MouseExpress® Labeled Mouse Tissue

CIL is pleased to add intact stable isotope enriched mouse tissue to its growing suite of products to assist the mass spectrometry proteomic community. The use of enriched mouse tissue as an internal standard allows for proteomic investigation at the tissue level (1,2) and will accelerate the quantitative proteome comparison across biological samples.

**MouseExpress® L-Lysine ( $^{13}\text{C}_6$ , 97%) Enriched Mouse Tissue is freshly frozen, intact mouse tissue.**

**Specifications:**

**Strain:** C57BL6

**Age:** 6-9 weeks

**Isotope enrichment:**  $^{13}\text{C}_6$  in Lysine >97%  
Incorporation efficiency of Lys6 into peptides extracted from LysC digested mouse blood is determined with a single LC-MS run, by evaluating the ratios between labeled (Lys6) and unlabeled (Lys0) for all detected peptides.

**Form:** Intact tissue

**Storage:** -80° C



**Tissues:**

Adipotic tissue (white)	Heart	Serum
Adipotic tissue (brown)	Kidney	Skin
Bladder	Liver	Spleen
Brain	Lung	Stomach
Breast	Muscle	Testes
Eye	Ovary	Thymus

**Various tissues, ages and sex are available. Please inquire.**

Coming Soon

**MouseExpress® ( $^{15}\text{N}$ , 95%) Enriched Mouse Tissue**



"The heavy labeled mouse tissue from CIL was extremely useful to validate labeled tissue produced in our own laboratory. We isolated peptides from the CIL tissue and ran our own independent analysis on a mass spectrometer. Based on these analyses we were confident to move forward with our proteomics experiments."

—Dr. Jesse Rinehart

Yale University School of Medicine, Department of Genetics

"The addition of SILAM standards prepared from CIL's MouseExpress® brain tissue to sub-cellular fractionation and targeted LC-SRM/MMS methodologies represents an essential powerful new tool for the study of neuropsychiatric illness."

—Matt MacDonald

University of Pennsylvania Pharmacology Graduate Group

**References**

- Boettger, T., Beetz, N., Kostin, S., Schneider, J., Krüger, M., Hein, L., Braun, T. 2009. Acquisition of the contractile phenotype by murine arterial smooth muscle cells depends on the Mir143/145 gene cluster. *J Clin Invest*, 119(9), 2634-2647.
- McClatchy, D.B., Dong, M.Q., Wu, C.C., Venable, J.D., Yates, J.R., 3rd 2007.  $^{15}\text{N}$  metabolic labeling of mammalian tissue with slow protein turnover. *J Proteome Res*, 6(5), 2005-2010.