



CIL

Cambridge Isotope Laboratories, Inc.
isotope.com

RESEARCH PRODUCTS

Mouse Express® Mouse Feed

L-Lysine ($^{13}\text{C}_6$, 99%) Enriched



Stable isotope labeling in mammals (SILAM) has also been accomplished utilizing L-lysine- $^{13}\text{C}_6$.¹ Cambridge Isotope Laboratories, Inc. (CIL) is pleased to offer labeled feed for the metabolic incorporation of stable isotope-enriched amino acids into mice and rats. **Mouse Express® L-lysine ($^{13}\text{C}_6$, 99%) mouse feed is prepared using our exclusive 99% enriched L-lysine- $^{13}\text{C}_6$.** Custom formulations are available in other labeling patterns and amino acid substitutions. Please inquire.

Mouse Express® L-Lysine ($^{13}\text{C}_6$, 99%) Enriched Mouse Feed Labeling Kit

CIL's Mouse Feed Labeling Kit consists of 1 kg L-lysine- $^{13}\text{C}_6$ labeled feed and 1 kg of unlabeled feed. This nutrient mix metabolically labels the entire mouse proteome with L-lysine- $^{13}\text{C}_6$ for use in quantitative global proteomic research using tryptic digests. This diet is unique in that it contains L-lysine- $^{13}\text{C}_6$ at an isotopic enrichment of 99%.

Catalog No.	Description
MLK-LYS-C	L-Lysine ($^{13}\text{C}_6$, 99%) Enriched Mouse Feed Labeling Kit (1 kg L-lysine- $^{13}\text{C}_6$ labeled feed/1 kg unlabeled feed)
MF-LYS-C	Mouse Feed Pellets (aquamarine) (L-lysine- $^{13}\text{C}_6$, 99%)
MF-UNLABELED	Mouse Feed Pellets (off-white) (unlabeled)

Key Features

- Amino acid-defined diet
- Irradiated feed available
- Storage up to six+ months
- Vacuum-sealed packaging: convenient 1 kg quantities
- Color-coded ½" pellets to clearly distinguish labeled and unlabeled feed
- Two-week lead time (four weeks if irradiation is required)
- Custom diets prepared upon request (minimum order may be required)

"We have used the Mouse Express® L-Lysine ($^{13}\text{C}_6$, 99%) Enriched Mouse Feed Labeling Kit from Cambridge Isotope Labs to label a colony of black 6 mice. We achieved full labeling efficiency by F2 generation in the muscle tissue, our tissue of interest, and in all other tissues tested. These tissues are fueling a variety of studies for multiple principal investigators at our research institute."

– Kristy J. Brown, PhD
Children's National Medical Center
Center for Genetic Medicine



Mouse Express® L-Lysine ($^{13}\text{C}_6$, 99%) Enriched Mouse Feed Labeling Kit



L-Lysine ($^{13}\text{C}_6$, 99%) Labeled Feed



Unlabeled Feed

Reference

1. Krüger, M.; Moser, M.; Ussar, S.; Thievensen, I.; Lubber, C.A.; Forner, F.; Schmidt, S.; Zanivan, S.; Fässler, R.; Mann, M. **2008**. SILAC mouse for quantitative proteomics uncovers kindlin-3 as an essential factor for red blood cell function. *Cell*, 134(2), 353-364, S2 Figure F.