MouseExpress®
L-Lysine ($^{13}C_6$, 99%) Enriched
Mouse Feed

SILAM has also been accomplished utilizing L-Lysine-$^{13}C_6$ (1). CIL is pleased to offer labeled feed for the metabolic incorporation of stable isotope enriched amino acids into mice and rats. **MouseExpress® L-Lysine ($^{13}C_6$, 99%) mouse feed is prepared using our exclusive 99% enriched L-Lysine-$^{13}C_6$.**

Custom formulations are available in other labeling patterns and amino acid substitutions. Please inquire.

MouseExpress® L-Lysine ($^{13}C_6$, 99%) Enriched Mouse Feed Labeling Kit

CIL's Mouse Feed Labeling Kit consists of 1 kg L-Lysine-$^{13}C_6$ labeled feed and 1 kg of unlabeled feed. This nutrient mix metabolically labels the entire mouse proteome with L-Lysine-$^{13}C_6$ for use in quantitative global proteomic research using tryptic digests. This diet is unique in that it contains L-Lysine-$^{13}C_6$ at an isotopic enrichment of 99%.

Catalog No.	Description
MLK-LYS-C	**L-Lysine ($^{13}C_6$, 99%) Enriched Mouse Feed Labeling Kit (1kg L-Lysine-$^{13}C_6$ labeled feed/1kg unlabeled feed)**
MF-LYS-C	**Mouse Feed Pellets (aquamarine) (L-Lysine-$^{13}C_6$, 99%)**
MF-UNLABELED	**Mouse Feed Pellets (off white) (unlabeled)**

Key Features:

- Amino acid defined diet
- Irradiated feed available
- Storage up to 6+ months
- Vacuum sealed packaging: convenient 1kg quantities
- Color coded ½" pellets to clearly distinguish labeled and unlabeled feed
- 2 week lead time/4 week lead time if irradiation required
- Custom diets prepared upon request (Note: minimum order may be required)

"We have used the MouseExpress® L-Lysine ($^{13}C_6$, 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, Ph.D.
Children's National Medical Center, Center for Genetic Medicine

MouseExpress® L-Lysine ($^{13}C_6$, 99%) Enriched Mouse Feed Labeling Kit

L-Lysine ($^{13}C_6$, 99%) Labeled Feed

Unlabeled Feed

Reference

1. Krüger, M., Moser, M., Ussar, S., Thievessen, I., Luber, 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.