Spirulina ^{15}N for **SILAM**

(Stable Isotope Labeling in Mammals)

CIL can also provide custom prepared diets for your labeling experiments consulting with a custom diet vendor.

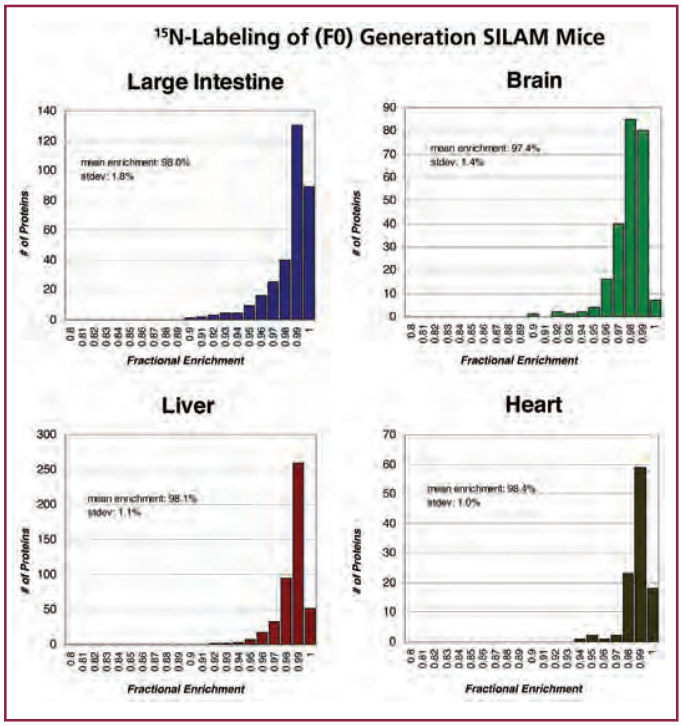
**Minimum orders may apply.*

Spirulina (^{15}N, 98%+)

Spirulina (^{15}N, 98%+), a unique blue-green algae, in combination with a protein/amino acid-free nutrient mix, provides an efficient feed to metabolically label the entire animal proteome with ^{15}N. A ^{15}N rodent diet can be prepared by a custom diet vendor (see Table 2) or in your laboratory using ^{15}N Spirulina. Please refer to: McClatchy, D.B. and Yates, J.R., III **2008**. Stable Isotope Labeling of Mammals (SILAM). Cold Spring Harb. Protoc, doi:10.1101/pdb.prot4940

Catalog No.	Description
NLM-8401	**Spirulina whole cells (lyophilized powder) (^{15}N, 98%+)**
ULM-8453	**Spirulina whole cells (lyophilized powder) (unlabeled)**

Table 1



Graph courtesy of Gabriel M. Simon, Ph.D.

"The use of ^{15}N Spirulina* diet for generating SILAM mice was very straight forward and effective. The mice seemed to prefer the spirulina chow to their normal diet, and behaved and bred normally over multiple generations while consuming this food. Labeling efficiency was very high (~98% enrichment) after only a single generation."

* ^{15}N Spirulina manufactured by CIL

–Gabriel M. Simon, Ph.D.
Washington University, Laboratory of Dr. Jeffrey I. Gordon

Table 2

Macronutrient information for a representative Spirulina ^{15}N containing diet. Spirulina is sole source of nitrogen.

	% by weight	% kcal from
Protein	18.5	19.0
Carbohydrate	52.3	53.8
Fat	11.7	27.1
Kcal/g	**3.9**	

Please consult a Harlan Nutritionist (askanutritionist@harlan.com) with technical questions about spirulina-containing diets.