

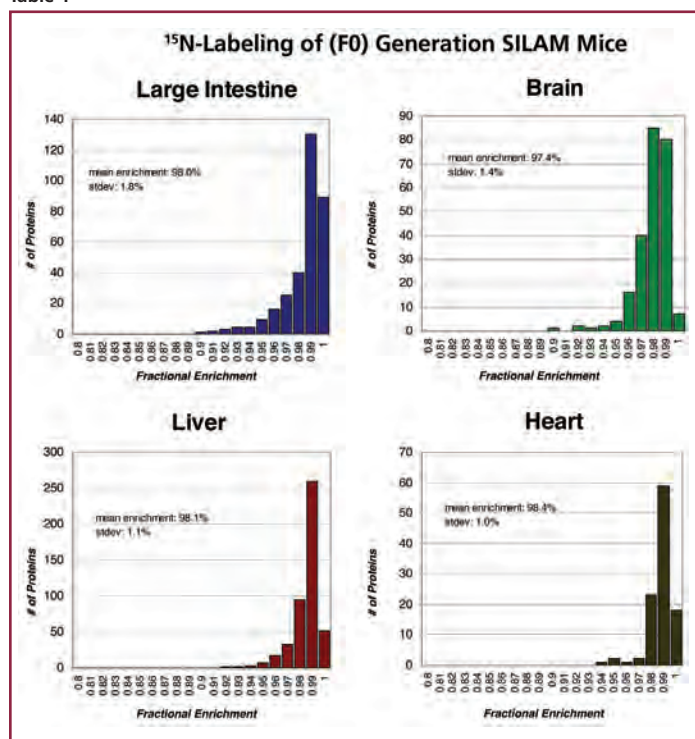
Spirulina ¹⁵N for SILAM (Stable Isotope Labeling in Mammals)

Spirulina (¹⁵N, 98%+)

Spirulina (¹⁵N, 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 ¹⁵N. A ¹⁵N rodent diet can be prepared by a custom diet vendor (see Table 2) or in your laboratory using ¹⁵N 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.



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

*Minimum orders may apply.

"The use of ¹⁵N 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."

* ¹⁵N 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 ¹⁵N 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.