

Proteomics



Mass Spectrometry

Cambridge Isotope Laboratories offers the broadest line of specifically labeled amino acids and uniformly labeled ^{13}C and ^{15}N amino acids in the industry. The products listed here are a representative sampling and have been selected for their importance in proteomic studies utilizing mass spectrometry. Please contact us if the amino acid, media or reagent you are interested in is not listed.

Bacterial Expression Systems (Uniformly Labeled Proteins)

Catalog #	Compound (Isotope, Atom% Enrichment)	Amount
CGM-1000-U	BioExpress[®] 1000 (Unlabeled) (10x concentrate)	100 mL
CGM-1000-N	BioExpress[®] 1000 ($\text{U-}^{15}\text{N}$, 98%) (10x concentrate)	100 mL
CGM-1000-C	BioExpress[®] 1000 ($\text{U-}^{13}\text{C}$, 98%) (10x concentrate)	100 mL
CGM-1020-SL-U-S	E. Coli-OD₂ (Unlabeled)	200 mL
CGM-1020-SL-N	E. Coli-OD₂ ($\text{U-}^{15}\text{N}$, 98%)	1 L
CGM-1020-SL-C	E. Coli-OD₂ ($\text{U-}^{13}\text{C}$, 98%)	1 L

Isotope-depleted Cell Growth Media

CGM-1500-U	Mono-Express (Natural Abundance) (10x concentrate)	10 mL
CGM-1500	Mono-Express ($\text{U-}^{12}\text{C}$, 99.95%; $\text{U-}^{14}\text{N}$, 99.97%) (10x concentrate)	10 mL

Amino Acids Uniformly ^{13}C Labeled

CLM-2265	L-Arginine•HCl ($\text{U-}^{13}\text{C}_6$, 98%)	0.1 g 0.25 g 0.5 g
CLM-2264	L-Histidine•HCl•H₂O (<5% D) ($\text{U-}^{13}\text{C}_6$, 98%)	0.05 g 0.1 g 0.25 g
CLM-2248	L-Isoleucine ($\text{U-}^{13}\text{C}_6$, 98%)	0.05 g 0.1 g 0.25 g
CLM-2248-95	L-Isoleucine ($\text{U-}^{13}\text{C}_6$, 95%+)	0.1 g
CLM-2262	L-Leucine ($\text{U-}^{13}\text{C}_6$, 98%)	0.05 g 0.1 g 0.25 g
CLM-2247	L-Lysine•2HCl ($\text{U-}^{13}\text{C}_6$, 98%)	0.05 g 0.1 g 0.25 g

Amino Acids Uniformly ^{15}N Labeled

NLM-454	L-Alanine (^{15}N , 98%)	1 g
NLM-396	L-Arginine•HCl ($\text{U-}^{15}\text{N}_4$, 98%)	0.1 g
NLM-3286	L-Asparagine•H₂O ($\text{U-}^{15}\text{N}_2$, 98%)	0.25 g
NLM-718	L-Aspartic Acid (^{15}N , 98%)	1 g
NLM-2295	L-Cysteine (^{15}N , 98%)	0.25 g



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Proteomics Mass Spectrometry – continued

Amino Acids Uniformly ¹⁵N Labeled – continued

Catalog #	Compound (Isotope, Atom% Enrichment)	Amount
NLM-135	L-Glutamic Acid (¹⁵ N,98%)	1 g
NLM-1328	L-Glutamine (U- ¹⁵ N ₂ ,98%)	0.25 g
NLM-202	Glycine (¹⁵ N,98%)	1 g
NLM-1513	L-Histidine•HCl•H ₂ O (U- ¹⁵ N ₃ ,98%)	Please inquire
NLM-292	L-Isoleucine (¹⁵ N,98%)	0.25 g
NLM-142	L-Leucine (¹⁵ N,98%)	1 g
NLM-1554	L-Lysine•2HCl (U- ¹⁵ N ₂ ,98%)	0.1 g
NLM-752	L-Methionine (¹⁵ N,98%)	0.5 g
NLM-108	L-Phenylalanine (¹⁵ N,98%)	1 g
NLM-835	L-Proline (¹⁵ N,98%)	0.25 g
NLM-2036	L-Serine (¹⁵ N,98%)	0.5 g
NLM-742	L-Threonine (¹⁵ N,98%)	0.5 g
NLM-800	L-Tryptophan (U- ¹⁵ N ₂ ,98%)	0.25 g
NLM-590	L-Tyrosine (¹⁵ N,98%)	0.5 g
NLM-316	L-Valine (¹⁵ N,98%)	1 g

Amino Acids Uniformly ¹³C / ¹⁵N Labeled

CNLM-534	L-Alanine (U- ¹³ C ₃ ,98%; ¹⁵ N,98%)	0.25 g
CNLM-539	L-Arginine•HCl (U- ¹³ C ₆ ,98%;U- ¹⁵ N ₄ ,98%)	0.25 g
CNLM-3819	L-Asparagine•H ₂ O (U- ¹³ C ₄ ,98%;U- ¹⁵ N ₂ ,98%)	0.25 g
CNLM-544	L-Aspartic Acid (U- ¹³ C ₄ ,98%; ¹⁵ N,98%)	0.5 g
CNLM-3871	L-Cysteine (U- ¹³ C ₃ ,98%; ¹⁵ N,98%)	0.25 g
CNLM-554	L-Glutamic Acid (U- ¹³ C ₅ ,98%; ¹⁵ N,98%)	0.5 g
CNLM-1275	L-Glutamine (U- ¹³ C ₅ ,98%;U- ¹⁵ N ₂ ,98%)	0.25 g
CNLM-1673	Glycine (U- ¹³ C ₂ ,98%; ¹⁵ N,98%)	1 g
CNLM-758	L-Histidine•HCl•H ₂ O (<5% D) (U- ¹³ C ₆ ,98%;U- ¹⁵ N ₃ ,98%)	Please inquire
CNLM-561	L-Isoleucine (U- ¹³ C ₆ ,98%; ¹⁵ N,98%)	0.25 g
CNLM-281	L-Leucine (U- ¹³ C ₆ ,98%; ¹⁵ N,98%)	0.25 g
CNLM-291	L-Lysine•2HCl (U- ¹³ C ₆ ,98%;U- ¹⁵ N ₂ ,98%)	0.25 g
CNLM-759	L-Methionine (U- ¹³ C ₅ ,98%; ¹⁵ N,98%)	0.1 g
CNLM-575	L-Phenylalanine (U- ¹³ C ₉ ,98%; ¹⁵ N,98%)	0.5 g
CNLM-436	L-Proline (U- ¹³ C ₅ ,98%; ¹⁵ N,98%)	0.25 g
CNLM-474	L-Serine (U- ¹³ C ₃ ,98%; ¹⁵ N,98%)	0.25 g
CNLM-587	L-Threonine (U- ¹³ C ₄ ,98%; ¹⁵ N,98%)	0.1 g
CNLM-2475	L-Tryptophan (U- ¹³ C ₁₁ ,98%;U- ¹⁵ N ₂ ,98%)	0.1 g
CNLM-439	L-Tyrosine (U- ¹³ C ₉ ,98%; ¹⁵ N,98%)	0.25 g
CNLM-442	L-Valine (U- ¹³ C ₅ ,98%; ¹⁵ N,98%)	0.5 g

Products of Interest for Mass Spec

DLM-821	Acrylamide (2,3,3-D ₃ ,98%)	1 g
CLM-856	Acrylonitrile (¹³ C ₃ ,99%)(+0.1% 4-Methoxyphenol)	0.1 g
DLM-820	Acrylonitrile (D ₃ ,98%)(+0.1% 4-Methoxyphenol)	1 g
CLM-1339	Bromoacetic Acid (1,2- ¹³ C ₂ ,99%)	1 g
DLM-6785	1,2-Ethanedithiol (1,1,2,2-D ₄ ,98%)	1 g
DLM-6711	N-Ethylmaleimide (Ethyl-D ₅ ,98%)	10 mg
DLM-805	Formaldehyde (D ₂ ,98%) (~20%w/w in D ₂ O)	20 mL of solution
CDLM-4599	Formaldehyde (¹³ C,99%;D ₂ ,98%) (~20%w/w in D ₂ O)	1 mL of solution
CLM-1510	Glycerol (¹³ C ₃ ,99%)	1 g
CLM-3264	Iodoacetic Acid (2- ¹³ C,99%)	0.5 g
DLM-598	Methanol (D ₃ ,99.5%)	5 g
DLM-362	Methyl Iodide (D ₃ ,99.5%) (stabilized with copper wire)	10 g
OLM-1057	Phosphoric Acid (¹⁸ O ₄ ,97%) 85% in Water	0.5 g
OLM-7523	Potassium Phosphate (¹⁸ O ₄ ,97%)	Please inquire
DLM-3126	Sodium Acetate (D ₃ ,99%)	25g
CLM-1571	Succinic Acid (U- ¹³ C ₄ ,99%)	0.1 g
CLM-2473	Succinic Anhydride (U- ¹³ C ₄ ,98%)	Please inquire
DLM-833	Succinic Anhydride (D ₄ ,98%)	5 g
DLM-6109	1,1,3,3-Tetraethoxypropane (1,3-D ₂ ,95%)	0.05 g
OLM-240-97	Water (¹⁸ O,97%)	Please inquire