



Cambridge Isotope Laboratories, Inc.  
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RESEARCH PRODUCTS

# Advance, Accelerate, and Enhance Your Research

Mixtures, Sets, and Kits  
for MS 'Omics and  
MS/MS Screening

*New!*

**Cambridge Isotope Laboratories, Inc.**

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To help advance research in MS 'omics and MS/MS screening, Cambridge Isotope Laboratories, Inc. (CIL) is pleased to offer the largest variety of stable isotope-labeled sets, mixtures, and kits. The mixes are formulated neat and/or as solutions and are readily available for immediate use. The kits include a user manual together with the packaged mix(es). The manual outlines general procedures and processing examples for user reference, as well as troubleshooting notes and analysis results. Please see [isotope.com](http://isotope.com) for product details, pricing, and to inquire about customized mixes.

### Benefits

- easy to use
- offers flexibility
- saves time
- enhances data quality
- improves reproducibility
- renders confidence

### Features Overview

- mixes supplied in neat and/or solution form
- preferentially <sup>13</sup>C- and/or <sup>15</sup>N-enriched
- site-specific or uniform labeling
- established specification guidelines
- procedural guides in kit manuals
- broad-spanning applications (from QC to quantification)

## Mixtures and Sets

Catalog No.	Description	No. of Metabolites	Unit Size
<b>Amino Acids</b>			
NSK-A	Amino Acid Standard Mix Set A	12	1 vial, 10 vials
NSK-A1	Amino Acid Standard Mix Set A1	12	1 vial, 10 vials
NSK-A-TS	Amino Acid Tuning Standard Mix Set A	5	1 vial
NSK-AB	Standard Mix Sets A and B	12 (in A), 8 (in B)	2 × 10 vials
MSK-A2	Metabolomics Amino Acid Mix	17	1.2 mL
MSK-CAA	Canonical Amino Acid Mix	20	1 vial
MSK-NCAA	Noncanonical Amino Acid Mix	7	1 vial
<b>Bile Acids</b>			
MSK-BA1	Bile Acid Standard Mix 1 – Unconjugated	6	1 vial
MSK-BA2	Bile Acid Standard Mix 2 – Conjugated	10	1 vial
<b>Carnitine/Acylcarnitines</b>			
NSK-B	Carnitine/Acylcarnitine Standard Mix Set B	8	1 vial, 10 vials
NSK-B-G1	Carnitine/Acylcarnitine Standard Mix Supplement to NSK-B	5	1 vial, 10 vials
NSK-AB	Standard Mix Sets A and B	12 (in A), 8 (in B)	2 × 10 vials
<b>Fatty Acids/Lipids</b>			
CLM-8455	Fatty Acid Mix (U- <sup>13</sup> C, 98%)	5-10	0.25 g, 1 g
DLM-8572	Fatty Acid Mix (U-D, 96-98%)	5-10	Please inquire
CDLM-8376	Fatty Acid Mix (U- <sup>13</sup> C, 98%; U-D, 97%)	5-10	0.25 g, 1 g
CLM-8381	Fatty Acid, Methyl Ester Mix (U- <sup>13</sup> C, 98%) (unlabeled terminal ester) CP 95%	5-10	0.25 g, 1 g
DLM-2497	Fatty Acid, Methyl Ester Mix (U-D, 96-98%)	5-10	Please inquire
DLM-8375	Triglyceride Mix (U-D, 97%)	5-10	0.25 g, 1 g
<b>Nucleic Acids</b>			
CNLM-7871-SL	Set of 4 2'-Deoxyribonucleoside 5'-Monophosphates (U- <sup>13</sup> C, 98%; U- <sup>15</sup> N, 98%) (Li salts, in solution) CP 90%	4	10 mg
NLM-7512-SL	Set of 4 2'-Deoxyribonucleoside 5'-Triphosphates (U- <sup>15</sup> N, 98%) (Li salts, in solution) CP 90%	4	10 mg, 50 mg
DLM-7511-SL	Set of 4 2'-Deoxyribonucleoside 5'-Triphosphates (U-D, 98%) (Li salts, in solution) CP 90%	4	10 mg, 50 mg
CNLM-7513-SL	Set of 4 2'-Deoxyribonucleoside 5'-Triphosphates (U- <sup>13</sup> C, 98%; U- <sup>15</sup> N, 98%) (Li salts, in solution) CP 90%	4	10 mg, 50 mg
NLM-7519-SL	Set of 4 Ribonucleoside 5'-Triphosphates (U- <sup>15</sup> N, 98%) (Li salts, in solution) CP 90%	4	10 mg, 50 mg
DLM-7518-SL	Set of 4 Ribonucleoside 5'-Triphosphates (U-D, 98%) (Li salts, in solution) CP 90%	4	10 mg, 50 mg
CNLM-7503-SL	Set of 4 Ribonucleoside 5'-Triphosphates (U- <sup>13</sup> C, 98%; U- <sup>15</sup> N, 98%) (Li salts, in solution) CP 90%	4	10 mg, 50 mg
NLM-7519-CA	Set of 4 Ribonucleoside 5'-Triphosphates (U- <sup>15</sup> N; 98%) (NH <sub>4</sub> salts, in solution) CP 90%	4	4 × 100 μmol
DLM-7518-CA	Set of 4 Ribonucleoside 5'-Triphosphates (U-D, 98%) (NH <sub>4</sub> salts, in solution) CP 90%	4	4 × 20 μmol, 4 × 50 μmol, 4 × 100 μmol
CNLM-7503-CA	Set of 4 Ribonucleoside 5'-Triphosphates (U- <sup>13</sup> C, U- <sup>15</sup> N; 98-99%) (NH <sub>4</sub> salts, in solution) CP 90%	4	4 × 20 μmol, 4 × 50 μmol, 4 × 100 μmol

Chemical purity (CP) is 98% or greater, unless otherwise specified.



Catalog No.	Description	No. of Metabolites	Unit Size
<b>Organic Acids</b>			
MSK-OA	Organic Acid Mix	33	1 vial
MSK-OA1	Keto Acid Mix	5	1 vial
MSK-OA2	Diacid Mix	8	1 vial
MSK-OA3	Monoacid Mix	3	1 vial
MSK-OA4	Hydroxy Acid Mix	5	1 vial
MSK-OA5	Aromatic Acid Mix	5	1 vial
MSK-OA6	Other Acid Mix	2	1 vial
MSK-OA7	Other Organic Acid Mix	5	1 vial
<b>Other</b>			
NSK-LPC	Lysophosphatidylcholine Mix	4	1 vial
NSK-NI	Acid Sphingomyelinase Substrate and Internal Standard Mix	1 (S + IS)	1 vial
NSK-KR	Galactocerebrosidase Substrate and Internal Standard Mix	1 (S + IS)	1 vial
NSK-FA	$\alpha$ -Galactosidase Substrate and Internal Standard Mix	1 (S + IS)	1 vial
NSK-GA	Glucocerebrosidase Substrate and Internal Standard Mix	1 (S + IS)	1 vial
NSK-MP	$\alpha$ -L-Iduronidase Substrate and Internal Standard Mix	1 (S + IS)	1 vial
NSK-PO	Acid $\alpha$ -Glucosidase Substrate and Internal Standard Mix	1 (S + IS)	1 vial
MSK-TCA1	TCA Cycle Standard Mix 1	8	1 vial
MSK-TCA2	TCA Cycle Standard Mix 2	5	1 vial
MSK-TCA	TCA Cycle Standard Mix Set 1 and 2	8 (in 1), 5 (in 2)	2 x 1 vials
<b>Steroids</b>			
NSK-S	Steroid Mix Set S	5	1 vial, 10 vials
NSK-S-40X	Steroid Mix Set S (40X)	5	1 vial, 10 vials
NSK-S-EXP	Expanded Steroid Mix Set S	9	1 vial, 10 vials

Note: Companion unlabeled standard mixes and kits may be available; please inquire.

## Kits

### Metabolomic Kits

Catalog No.	Description	No. of Metabolites per Mix
<b>Platform and Workflow Quality Control (QC) Kits</b>		
MSK-QC-KIT	Metabolomics QC Kit	5 (vial 1), 9 (vial 2)
MSK-QReSS-KIT	Metabolomics QReSS™ Kit	12 (vial 1), 6 (vial 2)
<b>Qualification and Quantification Kits</b>		
MSK-CRED-DD-KIT	Credentialed <i>E. coli</i> Cell Extract Kit (dried down)	100s
MSK-CRED-KIT	Credentialed <i>E. coli</i> Cell Extract Kit (solution)	100s
IROA-200-50	IROA 200 Kit for Bacterial Metabolic Profiling	100s
IROA-300-250	IROA 300 Kit for Mammalian Metabolic Profiling	100s
IROA-PHENO-95-300	IROA 300 Kit for Phenotypic Metabolic Profiling	100s
IROA-FLUX-05-300	IROA 300 Kit for Fluxomic Metabolic Profiling	100s
ISO1	Metabolite Yeast Extract Kit (U- <sup>13</sup> C, 98%)	100s

Note: Companion unlabeled standard mixes and kits may be available; please inquire.

IROA is a registered trademark of IROA Technologies.

### Glycomic Kit

Catalog No.	Description	Unit Size
<b>Qualification and Quantification Kit</b>		
GTK-1000	INLIGHT® Glycan Tagging Kit	1 kit

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## Proteomic Kits

Catalog No.	Description	No. of Peptides per Mix	Unit Size	Optimized Instrument
<b>Platform and Workflow Quality Control (QC) Kits</b>				
LCMSP-QC	PeptiQuant Plus Human Plasma Daily QC Kit	35	10, 20, or 50 injections	<ul style="list-style-type: none"> <li>• 6490/6495 QqQ</li> <li>• QTRAP® 6500</li> <li>• Q Exactive™ Plus</li> </ul>
WFPK	PeptiQuant Plus Human Plasma Workflow QC Kit	35	1 or 2 runs	<ul style="list-style-type: none"> <li>• 6490/6495 QqQ</li> <li>• Q Exactive Plus</li> <li>• QTRAP 6500</li> </ul>
<b>Biomarker Assessment Kits (BAKs)</b>				
BAK-125	PeptiQuant Plus Human Plasma Biomarker Assessment Kit	125	20, 50, or 100 samples	<ul style="list-style-type: none"> <li>• 6490/6495 QqQ</li> <li>• QTRAP 6500</li> <li>• Q Exactive Plus</li> <li>• Xevo TQ-XS</li> </ul>
BAK-270	PeptiQuant Plus Human Plasma Biomarker Assessment Kit	270	100 samples	<ul style="list-style-type: none"> <li>• 6490/6495 QqQ</li> <li>• QTRAP 6500</li> <li>• Q Exactive Plus</li> </ul>
M-BAK-125*	PeptiQuant Plus Mouse Plasma Biomarker Assessment Kit	125	20, 50, or 100 samples	<ul style="list-style-type: none"> <li>• 6490/6495 QqQ</li> <li>• QTRAP 6500</li> <li>• Q Exactive Plus</li> <li>• 6545 Q-TOF</li> </ul>

\*Alternate sets of 125 target proteins are available.

PeptiQuant is a trademark of MRM Proteomics Inc.

## CIL – Advancing Your Research

The global and targeted measurement of biomolecules continues to be two areas of growing focus in analytical chemistry and biomedicine. Drivers for this research include efforts to better understand the underlying mechanisms of disease pathogenesis and to improve precision medicine through the qualitative/quantitative screening of candidate biomarkers. To address these objectives, MS-based approaches are increasingly utilized and have been aided by advancements in experimental methodologies, instrumentation technologies, and bioinformatic tools. CIL offers a wide range of isotope-labeled compounds to enhance these research efforts. Please visit [isotope.com](http://isotope.com) for a complete listing of isotope-labeled compounds.



*For research use only. Not for use in diagnostic procedures.*



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MET\_RSCH\_MIXES\_KITS (5/18/21)  
Supersedes all previously published literature