

Advance, Accelerate, and Enhance Your Research

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



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 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 ¹³C- and/or ¹⁵N-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
Amino Acids			
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
NSK-AA3	3-Plex Amino Acid Standard Mix	3	1 vial
NSK-AA3-10X	3-Plex Amino Acid Standard Mix (10X)	3	1 vial
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
Bile Acids			
MSK-BA1	Bile Acid Standard Mix 1 – Unconjugated	6	1 vial
MSK-BA2	Bile Acid Standard Mix 2 – Conjugated	10	1 vial
Carnitine/Acylcarnitines			
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
Fatty Acids/Lipids			
CLM-8455	Fatty Acid Mix (U- ¹³ 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- ¹³ C, 98%; U-D, 97%)	5-10	0.25 g, 1 g
CLM-8381	Fatty Acid, Methyl Ester Mix (U- ¹³ 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
Nucleic Acids			
CNLM-7871-SL	Set of 4 2'-Deoxyribonucleoside 5'-Monophosphates (U- ¹³ C, 98%; U- ¹⁵ N, 98%) (Li salts, in solution) CP 90%	4	10 mg
NLM-7512-SL	Set of 4 2'-Deoxyribonucleoside 5'-Triphosphates (U- ¹⁵ 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- ¹³ C, 98%; U- ¹⁵ N, 98%) (Li salts, in solution) CP 90%	4	10 mg, 50 mg
NLM-7519-SL	Set of 4 Ribonucleoside 5'-Triphosphates (U- ¹⁵ 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- ¹³ C, 98%; U- ¹⁵ N, 98%) (Li salts, in solution) CP 90%	4	10 mg, 50 mg
NLM-7519-CA	Set of 4 Ribonucleoside 5'-Triphosphates (U- ¹⁵ N; 98%) (NH ₄ salts, in solution) CP 90%	4	4 × 100 μmol

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

Catalog No.	Description	No. of Metabolites	Unit Size
DLM-7518-CA	Set of 4 Ribonucleoside 5'-Triphosphates (U-D, 98%) (NH ₄ 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- ¹³ C, U- ¹⁵ N; 98-99%) (NH ₄ salts, in solution) CP 90%	4	4 × 20 µmol, 4 × 50 µmol, 4 × 100 µmol

Organic Acids

MSK-OA	Organic Acid Mix	33	1 vial
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Other

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	α-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	α-L-Iduronidase Substrate and Internal Standard Mix	1 (S + IS)	1 vial
NSK-PO	Acid α-Glucosidase Substrate and Internal Standard Mix	1 (S + IS)	1 vial
MSK-MET1	Metabolomics Standard Mix 1	11	1 vial, 5 vials, 10 vials

Steroids

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

TCA Cycle

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 Sets 1 and 2	8 (in 1), 5 (in 2)	2 × 1 vials

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

Kits

Metabolomic Kits

Catalog No.	Description	No. of Metabolites per Mix
Platform and Workflow Quality Control (QC) Kits		
MSK-QC-KIT	Metabolomics QC Kit	5 (vial 1), 9 (vial 2)
MSK-QReSS-KIT	Metabolomics QReSS™ Kit	12 (vial 1), 6 (vial 2)

Qualification and Quantification Kits

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-KIT	Metabolite Yeast Extract Kit	100s

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

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Glycomic Kit

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

Proteomic Kits

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

*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 for a complete listing of isotope-labeled compounds.



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