Cambridge Isotope Laboratories, Inc.
isotope.com

RESEARCH PRODUCTS

Metabolite and Lipid Yeast Extracts

For MS Metabolomics and Lipidomics

Cambridge Isotope Laboratories, Inc. (CIL) is pleased to offer ^{13}C-labeled and unlabeled yeast extracts for use in MS-based quantitative or profiling studies of various sample types. These extracts have been rigorously characterized by a number of methodologies and are amenable to a variety of research uses after simple reconstitution. The components in the extracts span broad metabolic classes (e.g., amino and organic acids, sugar phosphates, coenzymes, fatty acids and lipids), biochemical pathways (e.g., citrate and glyoxylate cycle, nucleotide and lipid metabolism), and cellular/molecular processes (e.g., intracellular signaling, immune system, blood coagulation, lipolysis).

Overview

Catalog No.	Description
ISO1	Metabolite Yeast Extract (U-^{13}C, 98%)
ISO1-UNL	Metabolite Yeast Extract (unlabeled)
NEW! ISO1-KIT	Metabolite Yeast Extract Kit
NEW! L-ISO1	Crude Lipid Yeast Extract (U-^{13}C, 99%)
NEW! L-ISO1-UNL	Crude Lipid Yeast Extract (unlabeled)

Dry extract of *Pichia pastoris* cells (strain CBS 7435).
Produced by ISOtopic Solutions (isotopic-solutions.com).

ISOtopic solutions

Please inquire for pricing.

Uses

- Targeted or untargeted, MS-based analysis
- Method and instrument QC
- Quantitation
- Biomarker discovery and verification

Benefits

- Reduces measurement uncertainty
- Improves precision and accuracy
- Enhances identification confidence
- Decreases development time and cost

Example References

Reiter, A.; Asgari, J.; Wiechert, W.; et al. **2022**. Metabolic footprinting of microbial systems based on comprehensive in silico predictions of MS/MS relevant data. *Metabolites, 12(3),* 257-280.

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Si-Hung, L.; Causon, T.J.; Hann, S. **2017**. Comparison of fully wettable RPLC stationary phases for LC-MS-based cellular metabolomics. *Electrophoresis, 38(18),* 2287-2295.

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Neubauer, S.; Chu, D.B.; Marx, H.; et al. **2015**. LC-MS/MS-based analysis of coenzyme A and short-chain acyl-coenzyme A thioesters. *Anal Bioanal Chem, 407(22),* 6681-6688.

Application Note

Percy, A.J.; Munjoma, N.; Heywood, D.; et al. **2022**. Targeted MRM screening of U-^{13}C lipid yeast extracts for robust lipidomics applications (CIL application note #54).

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MET_RSCH_YEAST (10/13/22)
Supersedes all previously published literature