Metabolite Yeast Extract

For Quality Control and Internal Standardization in Metabolomics

Cambridge Isotope Laboratories, Inc. (CIL) is pleased to offer a dilute-and-shoot ^{13}C-labeled and unlabeled metabolite yeast extract for use as an internal standard in MS-based quantitative or profiling studies of various sample types.[1-9] These extracts have been highly 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), biochemical pathways (e.g., citrate and glyoxylate cycle, amino acid and nucleotide metabolism), and cellular/molecular processes (e.g., immune system, blood coagulation, DNA metabolism).

Overview

Uses
- Targeted or untargeted, MS-based analysis
- Method and instrument QC
- Metabolite quantitation
- Biomarker discovery and verification

Benefits
- Reduce measurement uncertainty
- Improve precision and accuracy
- Enhance identification confidence
- Decrease development time and cost

Description

Catalog No.	Description	Price
ISO1	Metabolite Yeast Extract (U-^{13}C, 98%)	$500
ISO1-UNL	Metabolite Yeast Extract (unlabeled) *NEW!*	$300

Dry extract of >2 × 10^9 *Pichia pastoris* cells (~15 mg).
Produced by ISOtopic Solutions (isotopic-solutions.com).

ISOtopic solutions

Specifications

Criteria	Note
Kit contents	• U-^{13}C-labeled or unlabeled yeast extract • detailed user manual (on USB)
Shipping	Dried extract in 15 mL Falcon™ tube on dry ice
Storage	-80°C, protected from light
Isotopic enrichment	>98% (via LC-MS for characteristic metabolites)
Chemical purity	99% (via LC-UV for characteristic metabolites)

References

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