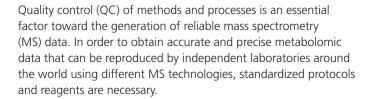


RESEARCH PRODUCTS

Metabolomic QC Kit

For Untargeted/Targeted Mass Spectrometry



To that end, Cambridge Isotope Laboratories, Inc. (CIL) is pleased to offer a QC kit for untargeted and targeted MS-based metabolomic applications.

The kit contains the following materials and tools:

- 2 Vials of ¹³C-labeled analytes (lyophilized). Refer to the table below for specifics.
- User manual
- Recommended parameters and conditions for LC-/GC-MS techniques

Table: Specific analytes contained in the two mixes and their individual concentrations upon rehydration. Rehydrating the lyophilized mixes in 1 mL of solvent yields the concentrations noted.

Description	Concentration (µg/mL)	Vial
L-Alanine (13C ₃ , 99%)	4	1
L-Leucine (13C ₆ , 99%)	4	1
L-Phenylalanine (13C ₆ , 99%)	4	1
L-Tryptophan (13C ₁₁ , 99%)	40	1
L-Tyrosine (13C ₆ , 99%)	4	1
D-Glucose (13C ₆ , 99%)	4	2
D-Sucrose (13C ₆ , 98%)	4	2
Caffeine (13C ₃ , 99%)	4	2
Stearic acid, sodium salt (13C ₁₈ , 98%)	0.4	2
Sodium octanoate (13C ₈ , 99%)	4	2
Sodium propionate (13C ₃ , 99%)	4	2
Sodium benzoate (13C ₆ , 99%)	4	2
Sodium citrate (¹³ C ₃ , 99%)	4	2
Succinic acid, disodium salt (13C ₄ , 99%)	4	2



Kit Features and Benefits

- Enables analytical precision to be determined
- Allows metabolite quantitation
- Identifies performance deficits
- Pinpoints method-specific issues
- Diminishes interlaboratory variability
- Improves method transferability

Looking to assess the performance of your metabolomic workflow? Use CIL's QC kit.

This QC kit is designed to evaluate the efficiency of a user's metabolomics method and LC-/GC-MS platform such that the analytical variation can be determined and corrected. Testing and validation of the kit has been performed in an array of matrices (e.g., urine, blood, and tissues), using different forms of chromatography (e.g., RP-LC and HILIC), ionization polarity (i.e., positive and negative), and modes of MS (e.g., DDA). By simply rehydrating and pooling aliquots of the supplied mixes, the isotopically labeled metabolites are ready for use either as spike-in standards to your biosample of interest (for quantitation) or for independent analysis at defined points of an analytical batch (for QC). In system suitability assessment, such metrics as retention time, peak shape, and signal intensity should be monitored over time for performance accreditation.

Catalog No.	Description*	Price (USD)
MSK-QC-KIT	Metabolomics QC Kit	\$495

^{*}Individual vials also available; please inquire.



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