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Metabolomics New! Organic Acid Mixtures

For Qualification, Quantification,
and Systems Biology



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Offer expires September 30, 2020

Organic acids are byproducts of amino acids and are intermediates in various biochemical pathways. **To aid MS-based metabolomic research endeavors, Cambridge Isotope Laboratories, Inc. (CIL) has formulated a series of isotope-enriched organic acid mixes.** These single-vial mixtures comprise 33 organic acids (MSK-OA-1) or subsets according to class (e.g., five organic acids in keto-acid mix, MSK-OA1-1).

Table 1. Composition of stable isotope-labeled organic acid mixtures. Reconstituting these dried-down mixes (either complete set or subsets) in 1 mL of solvent provides an equimolar concentration of 250 μ M.

Complete Set

MSK-OA-1 Labeled Organic Acid Mix (single vial of all 33 compounds)

Subsets

MSK-OA1-1 Labeled Keto Acid Mix	MSK-OA4-1 Labeled Hydroxy Acid Mix
α -Ketobutyric acid, sodium salt ($^{13}\text{C}_{4r}$, 98%)	Glycolic acid, sodium salt ($1,2\text{-}^{13}\text{C}_2$, 99%)
α -Ketoglutaric acid, disodium salt ($1,2,3,4\text{-}^{13}\text{C}_{4r}$, 99%) CP 97%	Malic acid, disodium salt: H_2O ($^{13}\text{C}_{4r}$, 99%)
α -Ketoisocaproic acid, sodium salt ($^{13}\text{C}_6$, 99%)	Sodium D-3-hydroxybutyrate ($^{13}\text{C}_{4r}$, 99%) CP 97%
α -Ketoisovaleric acid, sodium salt ($^{13}\text{C}_5$, 98%)	Sodium L-lactate ($^{13}\text{C}_3$, 98%) 20% w/w in H_2O
Sodium pyruvate ($^{13}\text{C}_3$, 99%)	DL 2-Hydroxyglutarate, disodium salt ($^{13}\text{C}_5$, 99%)
MSK-OA2-1 Labeled Diacid Mix	MSK-OA5-1 Labeled Aromatic Acid Mix
Adipic acid, disodium salt ($^{13}\text{C}_6$, 99%)	Hippuric acid (ring- $^{13}\text{C}_6$, 99%)
Fumaric acid, disodium salt ($^{13}\text{C}_{4r}$, 99%)	Homovanillic acid, sodium salt ($1,2\text{-}^{13}\text{C}_2$, 98-99%)
Maleic acid, disodium salt: H_2O ($^{13}\text{C}_{4r}$, 99%)	Phthalic acid, disodium salt ($^{13}\text{C}_{4r}$, 99%)
Malonic acid, disodium salt ($^{13}\text{C}_3$, 99%)	Sodium benzoate (ring- $^{13}\text{C}_6$, 99%)
Methylmalonic acid, disodium salt ($^{13}\text{C}_{4r}$, 99%)	DL-Vanilmandelic acid (ring- $^{13}\text{C}_6$, 99%)
Oxalic acid, disodium salt ($1,2\text{-}^{13}\text{C}_2$, 99%)	MSK-OA6-1 Labeled Other Acid Mix
Sodium isobutyrate ($^{13}\text{C}_{4r}$, 99%)	L-Ascorbic acid ($^{13}\text{C}_6$, 99%)
Succinic acid, disodium salt ($^{13}\text{C}_{4r}$, 99%)	Sodium D-gluconate ($^{13}\text{C}_6$, 99%)
MSK-OA3-1 Labeled Monoacid Mix	MSK-OA7-1 Labeled Other Organic Acid Mix
Sodium acetate ($1,2\text{-}^{13}\text{C}_2$, 99%)	<i>trans</i> -Aconitic acid ($2,4,4'\text{-}^{13}\text{C}_3$, 99%) CP 95%
Sodium butyrate ($^{13}\text{C}_{4r}$, 99%)	Creatine ($^{15}\text{N}_3$, 98%)
Sodium propionate ($^{13}\text{C}_3$, 99%)	Orotic acid, sodium salt ($^{15}\text{N}_2$, 98%)
	Trisodium citrate, hemihydrate ($1,5,6\text{-carboxy-}^{13}\text{C}_3$, 99%)
	Uric acid, sodium salt ($^{15}\text{N}_2$, 98%) CP 95%

Note: Unlabeled mixtures are also available. Please inquire.

Chemical purity (CP) is 98% or greater, unless otherwise indicated. For research use only. Not for use in diagnostic procedures.



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