InertSearch™ for LC

Inertsil® Applications

Simultaneous analysis of metabolites using LC/MS/MS (5) - compounds related to central metabolism part 2 -

Data No. LL015-0000

The chromatograms were provided by Yudai Dempo, Takeshi Bamba, and Eiichiro Fukusaki, Department of Biotechnology, Graduate School of Engineering, Osaka University, 2-1 Yamadaoka, Suita, Osaka 565-0871, Japan

Conditions

Column : InertSustain C18 (3 μm, 150 x 2.1 mm I.D., Metal-free hardware)
Column Cat. No. : 5020-00541
Eluent : A) 10 mM Tributylamine + 15 mM CH_3COOH in H_2O
B) CH_3OH
Flow rate : 0.2 mL/min
Col. Temp. : 45 ℃
Detection : LC/MS/MS (ESI, Negative, MRM)
Injection Vol. : 3 μL
Sample : Standard solution (Approx. 5 μmol/L each)

Time (min)	A (vol%)	B (vol%)
0	100	0
1	100	0
1.5	85	15
3	85	15
8	50	50
10	0	100
11	0	100
11.5	100	0
17	100	0

Analyte	Precursor ion (*m/z*)	Product ion (*m/z*)
Dihydroxyacetone phosphate	169	97
Pantothenic acid	218	88
Nicotinic acid	122	78
Succinic acid	117	73
Carbamoyl phosphate	140	97
Malic acid	133	115
Acetyl phosphate	139	79
α-Ketoglutaric acid	145	101
6-Phosphogluconic acid	275	97
3-Phosphoglyceric acid	185	79
2-Keto-3-deoxy-6-phosphogluconic acid	257	97
Shikimate 3-phosphate	253	97
Citric acid	191	87
Fructose 1,6-bisphosphate	339	97
Phosphoenolpyruvic acid	167	79
Ribulose 1,5-bisphosphate	309	97
4-Hydroxy-3-methyl-but-2-enyl pyrophosphate	261	79
Isocitric acid	191	73
Flavin mononucleotide	455	97
2-Isopropylmalic acid	175	115
5-Phosphoribose 1-pyrophosphate	389	291
Pyrroloquinoline quinone	329	241
10-Camphorsulfonic acid	231	80
Isopentenyl pyrophosphate	245	79
Dimethylallyl pyrophosphate	245	79

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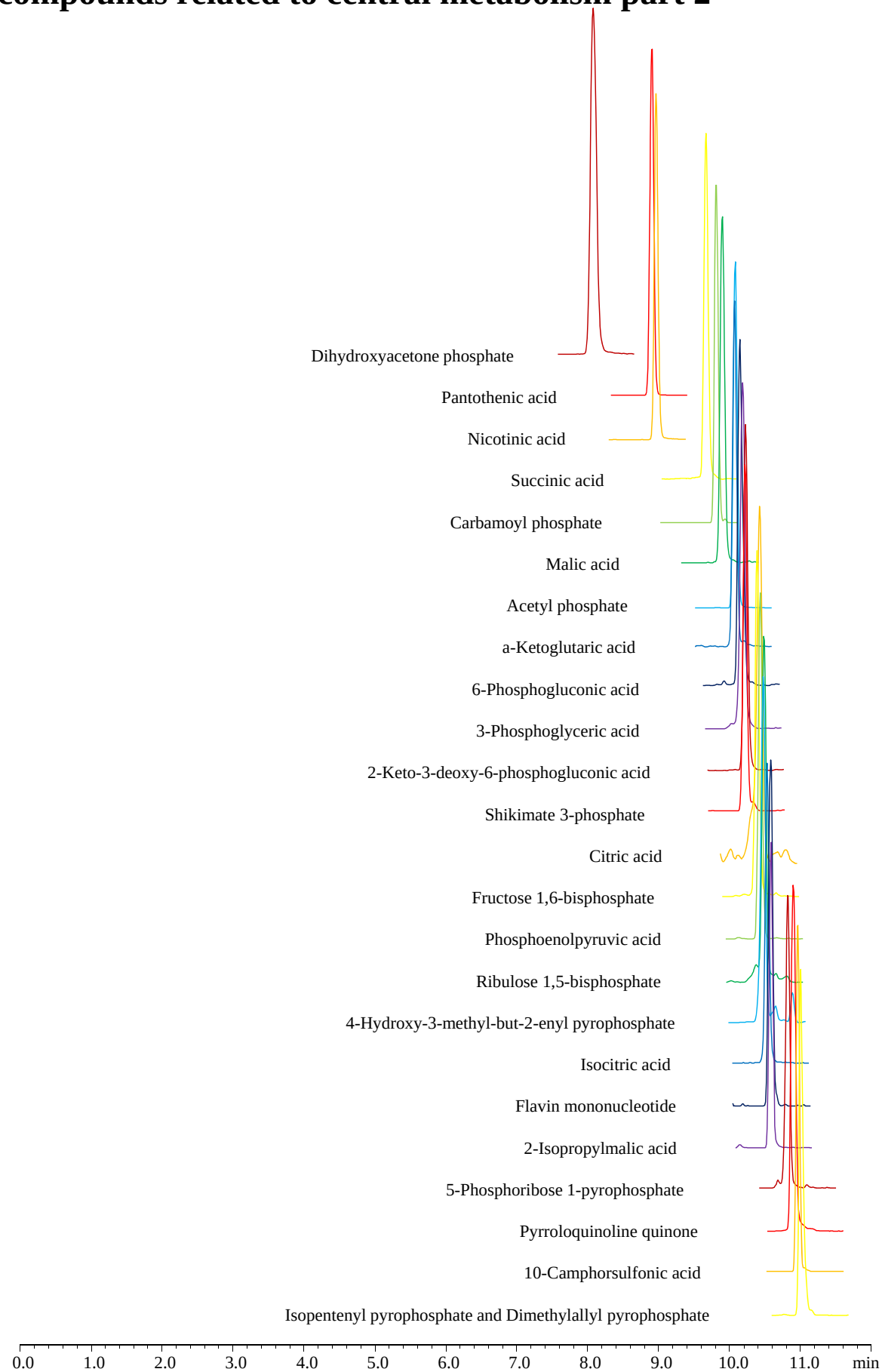

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