InertSearch™for LC

Inertsil [®] **Applications**

Simultaneous analysis of metabolites using LC/MS/MS (4) - compounds related to central metabolism part 1 -

Data No. LL014-0000

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 μ m, 150 x 2.1 mm I.D., Metal-free hardware)

Column Cat. No.: 5020-00541

Eluent : A) 10 mM Tributylamine + 15 mM CH₃COOH in H₂O

B) CH₃OH

Flow rate : 0.2 mL/min

Col. Temp. : $45 \,^{\circ}\text{C}$

Detection : LC/MS/MS (ESI, Negative, MRM)

Injection Vol. : 3 μ L

Sample : Standard solution (Approx. 5 μ mol/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	

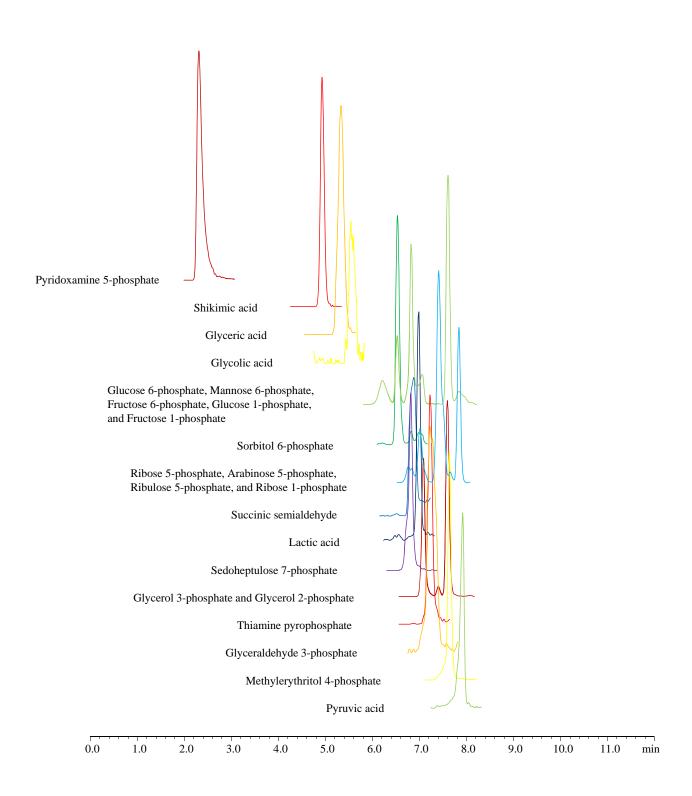
Analyte	Precursor ion (m/z)	Product ion (m/z)
Pyridoxamine 5-phosphate	247	230
Shikimic acid	173	93
Glyceric acid	105	75
Glycolic acid	75	47
Glucose 6-phosphate	259	97
Mannose 6-phosphate	259	97
Fructose 6-phosphate	259	97
Glucose 1-phosphate	259	97
Fructose 1-phosphate	259	97
Sorbitol 6-phosphate	261	97
Ribose 5-phosphate	229	79
Arabinose 5-phosphate	229	79
Ribulose 5-phosphate	229	79
Ribose 1-phosphate	229	79
Succinic semialdehyde	101	57
Lactic acid	89	43
Sedoheptulose 7-phosphate	289	199
Glycerol 3-phosphate	171	79
Glycerol 2-phosphate	171	79
Thiamine pyrophosphate	424	302
Glyceraldehyde 3-phosphate	169	97
Methylerythritol 4-phosphate	215	79
Pyruvic acid	87	43

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