

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

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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 CH₃COOH in H₂O
B) CH₃OH
Flow rate : 0.2 mL/min
Col. Temp. : 45 °C
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 (<i>m/z</i>)	Product ion (<i>m/z</i>)
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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