

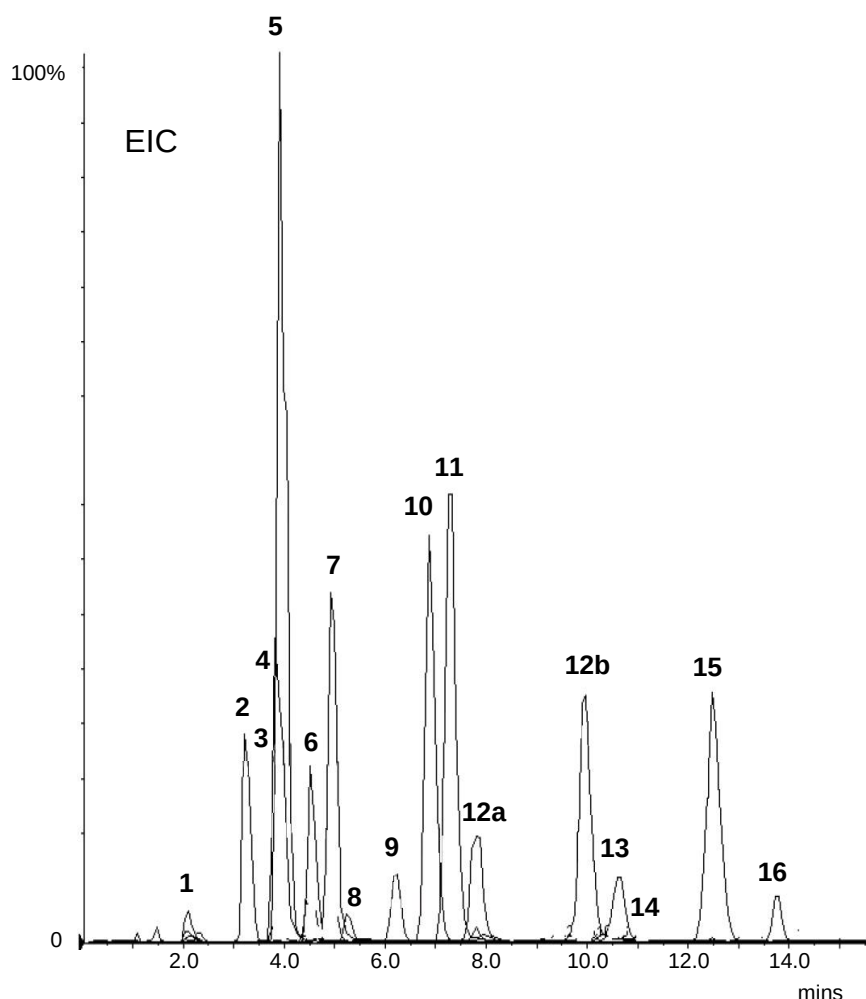
Metabolomics – C4 & C5 Hydroxy and Dicarboxylic Acids

Application #AN4110

Conditions

Column: ACE 3 C18-PFP
Dimensions: 150 x 2.1 mm
Part Number: ACE-1110-1502
Mobile Phase: A: 0.1% formic acid in H₂O
B: 0.1% formic acid in MeCN
Detection: Sciex API 4000 triple quad MS
ESI in negative ion mode
Sample: Urine / plasma sample is filtered and extracted with ice-cold methanol, evaporated to dryness and reconstituted in 0.1% formic acid in water

Please contact info@ace-hplc.com for additional information on the chromatographic conditions used for this analysis.



1. Isocitric acid
(m/z 191 $\rightarrow$ 111)
2. 2-Hydroxyglutaric acid
(m/z 147 $\rightarrow$ 129)
3. 3-Hydroxyglutaric acid
(m/z 147 $\rightarrow$ 85)
4. Maleic acid
(m/z 115 $\rightarrow$ 71)
5. Citric acid
(m/z 191 $\rightarrow$ 111)
6. Fumaric acid
(m/z 115 $\rightarrow$ 71)
7. Succinic acid
(m/z 117 $\rightarrow$ 73)
8. Methylmalonic acid
(m/z 117 $\rightarrow$ 55)
9. 3-Hydroxy-3-methylglutaric acid
(m/z 161 $\rightarrow$ 99)
10. 2-Hydroxyadipic acid
(m/z 161 $\rightarrow$ 143)
11. 3-Hydroxyisovaleric acid
(m/z 117 $\rightarrow$ 59)
12. 3-Hydroxy-2-methylbutyric acid
(m/z 117 $\rightarrow$ 73)
13. Glutaric acid
(m/z 131 $\rightarrow$ 87)
14. 2-Ethyl-3-hydroxypropionic acid
(m/z 117 $\rightarrow$ 87)
15. Ethylmalonic acid
(m/z 131 $\rightarrow$ 87)
16. Methylsuccinic acid
(m/z 131 $\rightarrow$ 87)

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