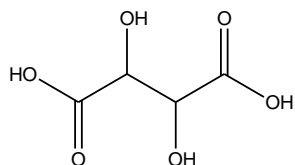


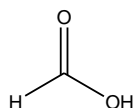
有機酸

Organic acids

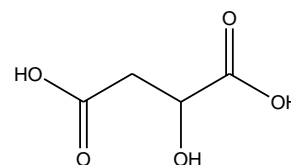
カルボキシル基を有する 10 種類の有機酸を分析した例を示します。水系 100%移動相を使用可能な CAPCELL PAK ADME-HR S5 (4.6 mm i.d. x 250 mm) を用いることで、良好な分離を達成しています。



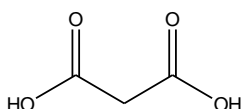
1. 酒石酸 (50 µg/mL)
Tartaric acid (M.W. 150.1)



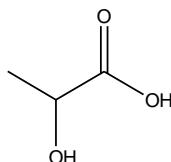
2. ギ酸 (300 µg/mL)
Formic acid (M.W. 46.0)



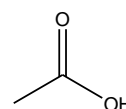
3. リンゴ酸 (100 µg/mL)
Malic acid (M.W. 134.1)



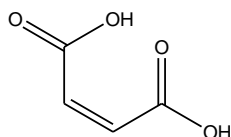
4. マロン酸 (100 µg/mL)
Malonic acid (M.W. 104.1)



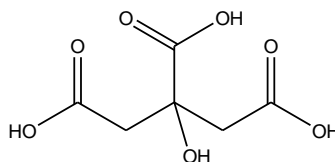
5. 乳酸 (300 µg/mL)
Lactic acid (M.W. 90.1)



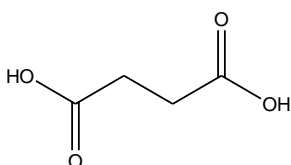
6. 酢酸 (200 µg/mL)
Acetic acid (M.W. 60.1)



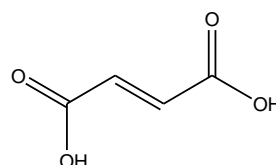
7. マレイン酸 (1 µg/mL)
Maleic acid (M.W. 116.1)



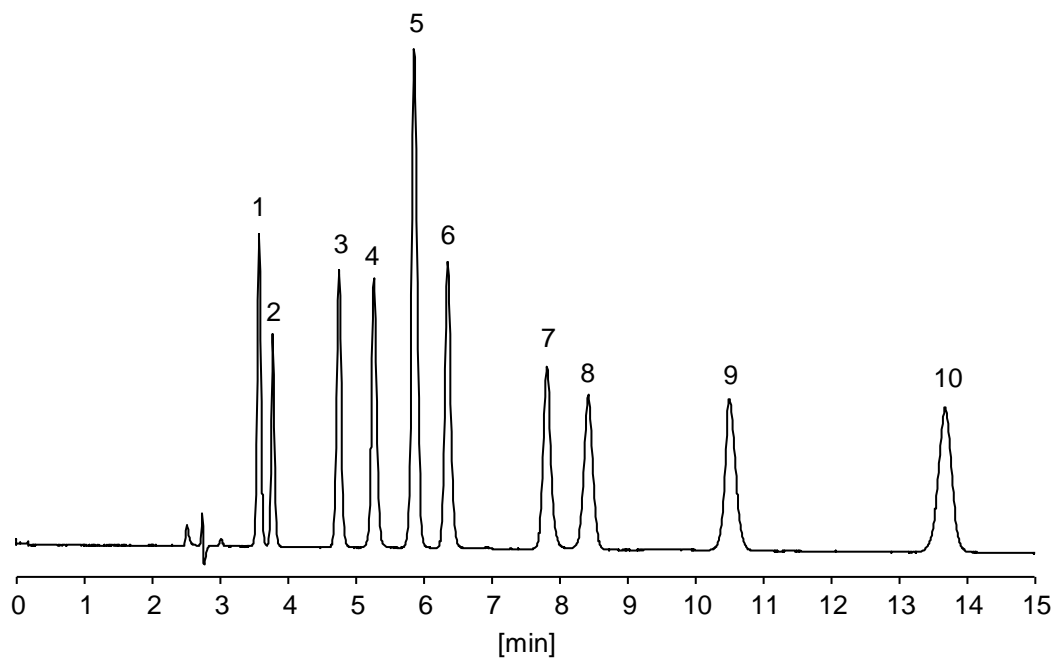
8. クエン酸 (100 µg/mL)
Citric acid (M.W. 192.1)



9. コハク酸 (200 µg/mL)
Succinic acid (M.W. 118.1)



10. フマル酸 (1 µg/mL)
Fumaric acid (M.W. 116.1)



【HPLC Conditions】

Column : CAPCELL PAK ADME-HR S5 ; 4.6 mm i.d. x 250 mm
Mobile phase : 0.2 vol% H₃PO₄
Flow rate : 1000 μL/min
Temperature : 35 °C
Detection : UV 215 nm
Inj. vol. : 20 μL
Sample dissolved in : H₂O
※ 1 μg/mL = 1 ppm