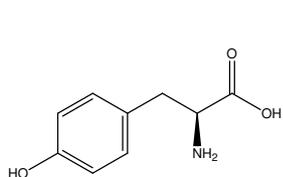


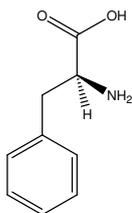
## クマリン類の生合成経路

## Biosynthetic pathway of coumarins

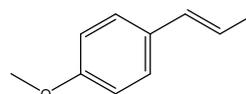
クマリン類の生合成経路に関連する化合物 10 種を CAPCELL PAK C<sub>8</sub> DD S3、CAPCELL PAK C<sub>18</sub> AQ S3 (2.0 mm i.d. x 150 mm) 及び CAPCELL PAK ADME-HR S3 (2.1 mm i.d. x 150 mm) を用いて分析した例を示します。



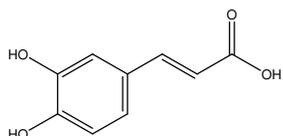
1. チロシン (1000 µg/mL)  
Tyrosine (M.W. 181.2)



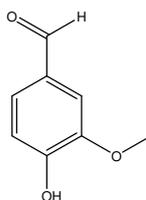
2. フェニルアラニン (2000 µg/mL)  
Phenylalanine (M.W. 165.2)



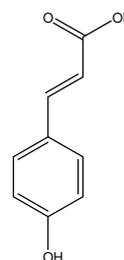
3. アネトール (10 µg/mL)  
Anethole (M.W. 148.2)



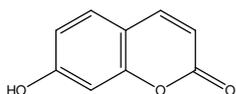
4. コーヒー酸 (100 µg/mL)  
Caffeic acid (M.W. 180.2)



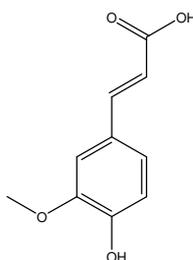
5. バニリン (100 µg/mL)  
Vanillin (M.W. 152.1)



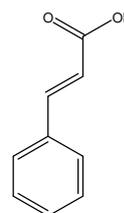
6. *p*-クマル酸 (1 µg/mL)  
*p*-Coumaric acid (M.W. 164.2)



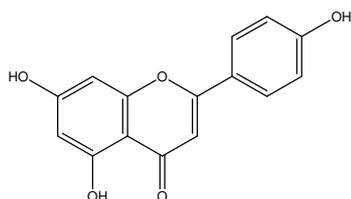
7. 7-ヒドロキシクマリン (100 µg/mL)  
7-Hydroxycoumarin (M.W. 162.1)



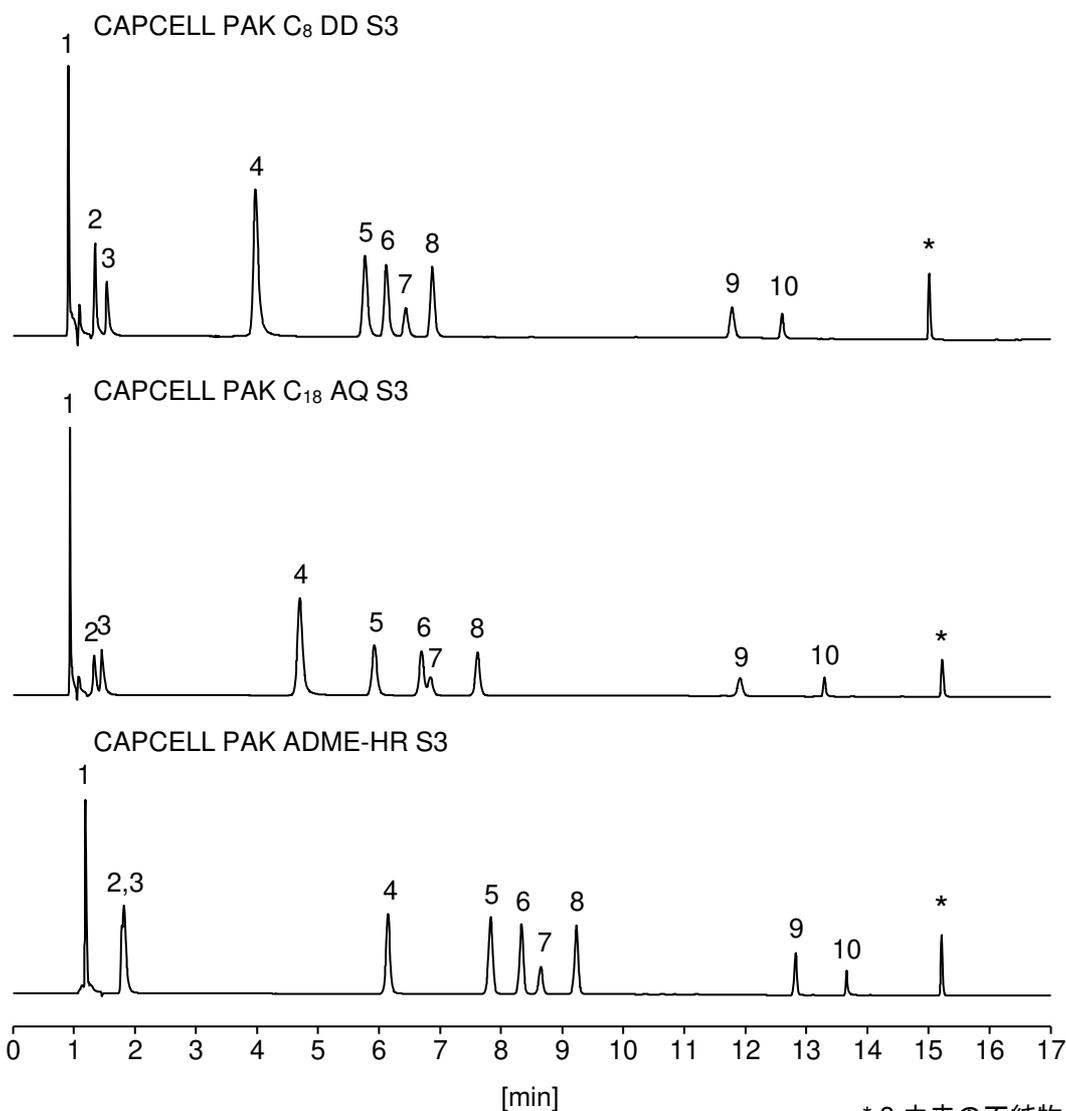
8. フェルラ酸 (100 µg/mL)  
Ferulic acid (M.W. 194.2)



9. ケイ皮酸 (10 µg/mL)  
Cinnamic acid (M.W. 148.2)



10. アピゲニン (10 µg/mL)  
Apigenin (M.W. 270.2)



\* 3 由来の不純物

**【HPLC Conditions】**

Column size : 2.0 or 2.1 mm i.d. x 150 mm  
 Mobile phase : A) 0.1 vol% CH<sub>3</sub>COOH  
                   B) 0.1 vol% CH<sub>3</sub>COOH, CH<sub>3</sub>CN  
                   B 10 % (0 min) -> 30 % (10 min) -> 100 % (15 min) ->  
                   100 % (17 min) -> 0 % (17.1 min) Gradient  
 Flow rate : 400 μL/min  
 Temperature : 40 °C  
 Detection : UV 260 nm  
 Inj. vol. : 2 μL  
 Sample dissolved in : H<sub>2</sub>O  
                           ※ 1 μg/mL = 1 ppm