

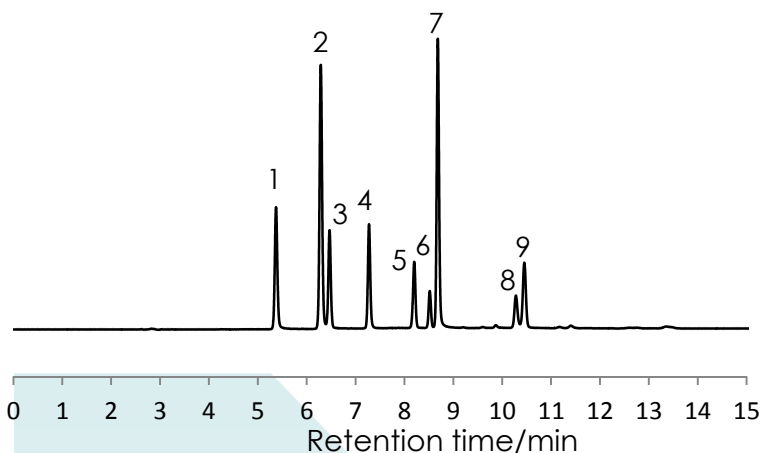
フェノール系酸化防止剤の分離

phenolic antioxidants

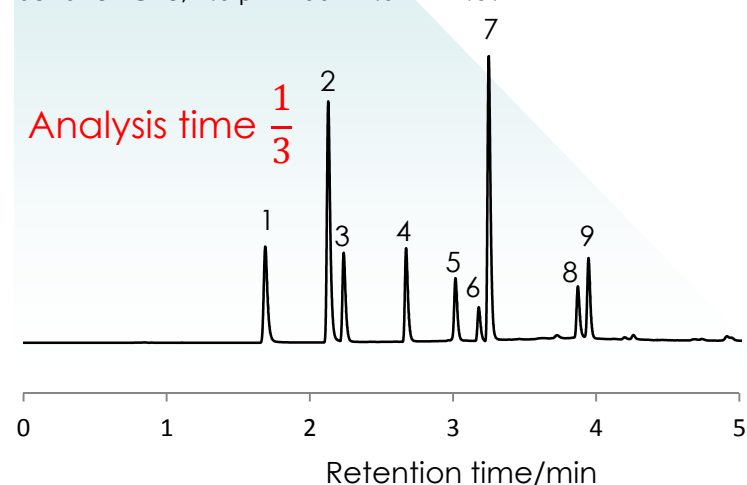
Sunniest C18 5 μm, 150 x 4.6 mm i.d.

SunShell C18 2.6 μm, 100 x 4.6 mm i.d.

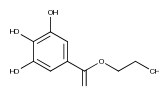
Sunniest C18, 5 μm 150 x 4.6 mm i.d.



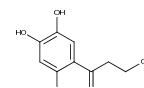
SunShell C18, 2.6 μm 100 x 4.6 mm i.d.



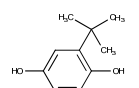
1.PG(Propyl Gallate)



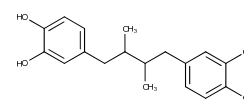
2.THBP (2,4,5-Trihydroxybutyrophenone)



3.TBHQ (tert-Butylhydroquinone)

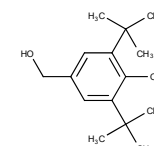


4.NDGA (Nordihydroguaiaretic acid)



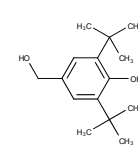
5.BHA

(Butylated Hydroxyanisole)

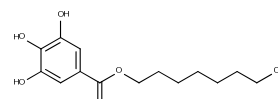


6.HMBP (4 - Hydroxymethyl -

2,6 - di - tert - butylphenol)

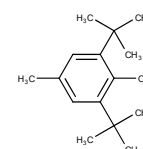


7. OG (Octyl gallate)

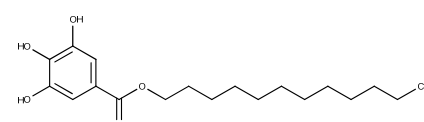


8. BHT

(Butylated hydroxytoluene)



9. DG (Dodecyl gallate)



Column: Sunniest C18, 5 μm 150 x 4.6 mm i.d.

SunShell C18, 2.6 μm 100 x 4.6 mm i.d.

Mobile phase: A) 5% Acetic acid in water , B) Methanol, C) Acetonitrile

150 x 4.6 mm i.d. 0.6mL/min

Time (min)	0	5	15
% B	60	0	0
% C	20	50	50

100 x 4.6 mm i.d. 1.0mL/min

Time (min)	0	2	5
% B	60	0	0
% C	20	50	50

Flow rate: 0.6, 1.0 mL/min

Temperature: 40 °C

Detection: UV@280nm

Sample: 1= PG, 2= THBP, 3= TBHQ, 4= NDGA, 5= BHA, 6= HMBP, 7= OG, 8= BHT, 9= DG

Instrument	
Hitachi Chromaster®	
Detector:	5410
Oven:	5310
AutoSampler:	5260
Pump:	5160

