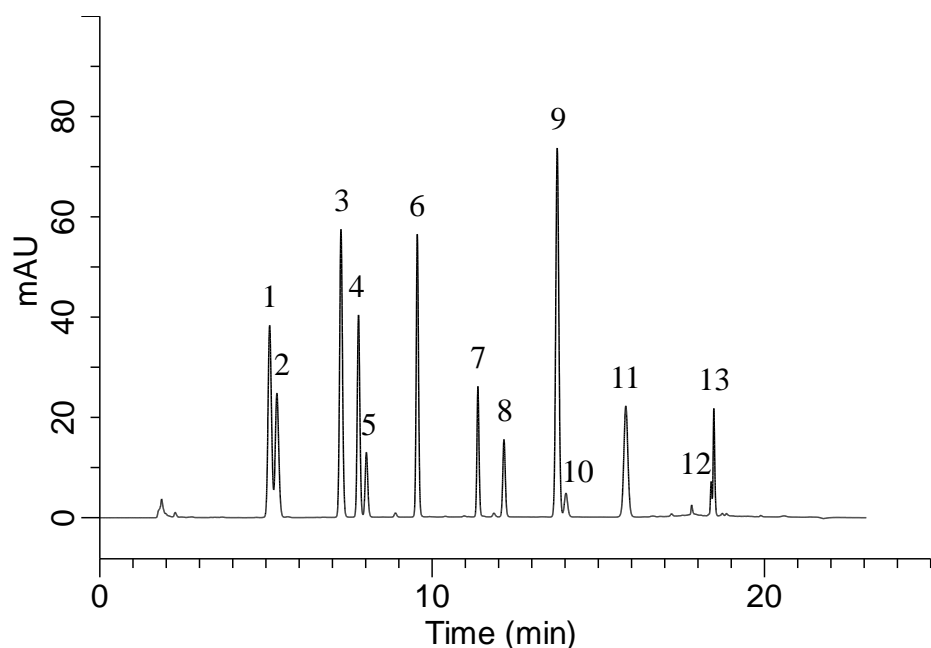


Analysis of Phenolic antioxidants



Conditions

System : GL7700 HPLC system
Column : InertSustainSwift C18 HP
 (3 μ m, 250 x 4.6 mm I.D.)
Column Cat. No. : 5020-88226
Eluent : A) CH₃CN/CH₃OH = 1/1, v/v
 B) 5 % CH₃COOH in H₂O

Time (min)	A (vol%)	B (vol%)
0.0	30	70
2.0	30	70
8.0	58	42
13.0	58	42
15.0	100	0
18.0	100	0
18.1	30	70
25.0	30	70

Analyte:

1. Propyl gallate (PG)
2. 3,4-Dihydroxybenzoic acid (DHBA)
3. 2,4,5-Trihydroxybutyrophene (THBP)
4. Butyl gallate (BG)
5. *tert*-Butylhydroquinone (TBHQ)
6. Isoamyl gallate (IAG)
7. Nordihydroguaiaretic acid (NDGA)
8. Butylated hydroxyanisole (BHA)
9. 4-Hexylresorcinol (HR)
10. 4-Hydroxymethyl-2,6-di-*tert*-butylphenol (HMBP)
11. Octyl gallate (OG)
12. Dibutylhydroxytoluene (BHT)
13. Dodecyl gallate (DG)

(10 mg/L each)

Flow Rate : 1.0 mL/min
Col. Temp. : 40 °C
Detection : UV 280 nm (UV7750 UV Detector)
Injection Vol. : 10 μ L
Sample : Standard