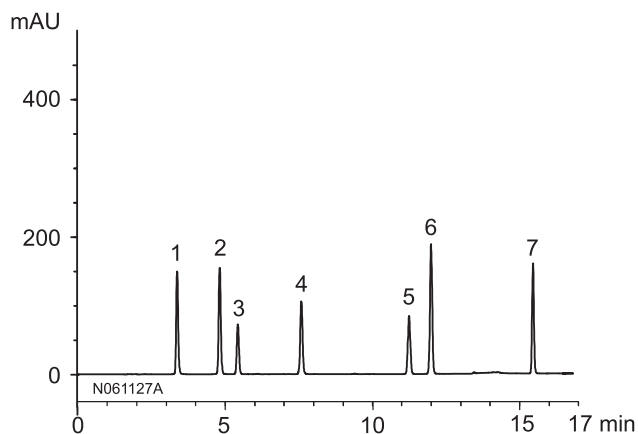


酸化防止剤 - 2 μ mカラムによる超高速分析化
Antioxidants - method transfer to ultra-fast LC

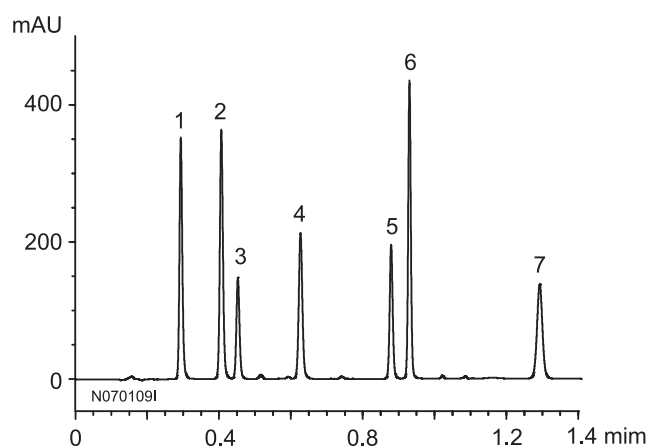
N070629B

Conventional LC method



Column : YMC-Pack *Pro* C18 (5 μ m, 12nm)
150 X 4.6 mm I.D.
Flow rate : 1.0 mL/min
Gradient : 45-70%B (0-9 min),
70-95%B (9-12 min),
95%B (12-17 min)
Injection : 5 μ L

Ultra-fast LC method



Column : YMC-UltraHT *Pro* C18 (2 μ m, 12nm)
50 X 2.0 mm I.D.
Flow rate : 0.8 mL/min
Gradient : 45-70%B (0-0.75 min),
70-95%B (0.75-1 min),
95%B (1-1.4 min)
Injection : 1 μ L

- | | | | |
|--|---|---|---|
| <p>1.</p> <p><i>n</i>-Propyl gallate (PG)</p> | <p>2.</p> <p>2,4,5-Trihydroxybutyrophenone (THBP)</p> | <p>3.</p> <p><i>tert</i>-Butylhydroquinone (TBHQ)</p> | <p>4.</p> <p>Nordihydroguaiaretic acid (NDGA)</p> |
| <p>5.</p> <p>4-Hydroxymethyl-2,6-di-<i>tert</i>-butylphenol (HMBP)</p> | <p>6.</p> <p><i>n</i>-Octyl gallate (OG)</p> | <p>7.</p> <p><i>n</i>-Dodecyl gallate (DG)</p> | |

Eluent : A) water / TFA (100/0.1)
B) acetonitrile / methanol / TFA (75/25/0.1)
Temperature : 30°C
Detection : UV at 280 nm
Sample : 0.05-0.3 mg/mL