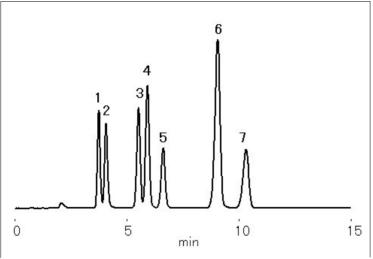
Simultaneous Analysis of Vitamin E Homologs

Naturally occurring Vitamin E is classified into two categories: tocopherols and tocotrienlols, each containing four subcategories, and therefore amounting to a total of eight homologs. Tocopherols exhibit a higher bioactivity, the most active type being α -tocopherol, and for this reason the term vitamin E generally refers to α -tocopherol. In this application, seven kinds of tocotrienols and tocopherols except β -tocopherol were analyzed simultaneously using Silica 5SIL 4D (a column for nornal phased chromatography).



Sample: Vitamin E, 20µL

- 1. a-Tocopherol 5µg/mL
- 2. a-Tocotrienol 10µg/mL
- 3. β-Tocopherol 5µg/mL
- 4. y-Tocopherol 5µg/mL
- 5. y-Tocotrienol 10µg/mL
- 6. δ-Tocopherol 5µg/mL
- 7. δ -Tocotrienol 10 μ g/mL

Column : Shodex Silica 5SIL 4D (4.6mmI.D. x 150mm)
Eluent : n-Hexane/Isopropano1/CH3COOH=1000/6/5

Flow rate : 1.0mL/min

Detector : Fluorescence (Ex. 298nm, Em. 325nm)

Column temp. : 30°C