

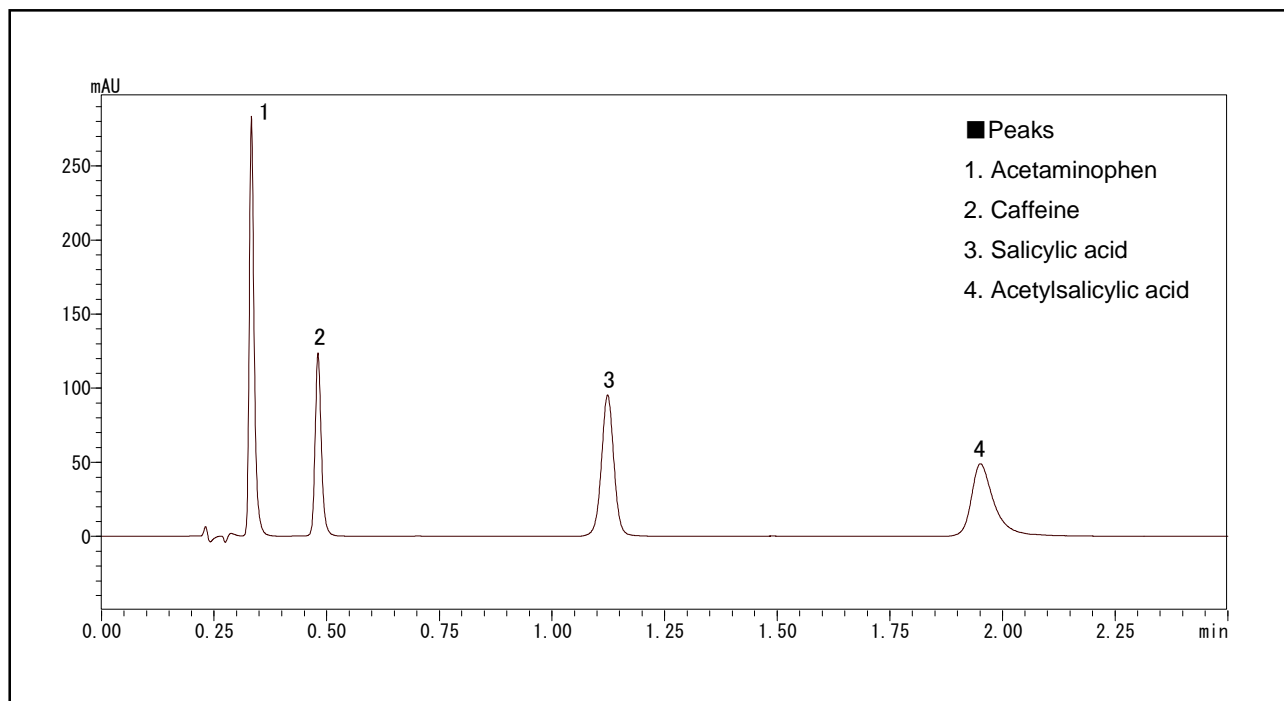
Application Data Sheet

High Performance Liquid Chromatography

No. 46

High Speed Analysis of Analgesic Components

The chromatogram shows results of a simultaneous separation of 4 commonly-used analgesic components, acetaminophen, caffeine, salicylic acid and acetylsalicylic acid by isocratic elution. The analysis was completed in approximately 2 minutes.



Analysis of Analgesic Components

[Sample Preparation]

Standard mix solution of 4 analgesics was prepared by dissolving and diluting with the mobile phase to a concentration of 25mg/L .

Analytical Conditions

Instrument	: Prominence UFLCXR system
Column	: Shim-pack XR-ODS II (75 mm × 3.0 mm <i>i.d.</i>)
Mobile Phase	: 0.05 % Phosphoric acid / Methanol = 65 / 35 (v/v)
Flow Rate	: 1.5 mL/min
Column Temperature	: 50 °C
Detection	: Absorbance at 230 nm with Semi-micro flow cell
Sample Volume	: 4 µL