

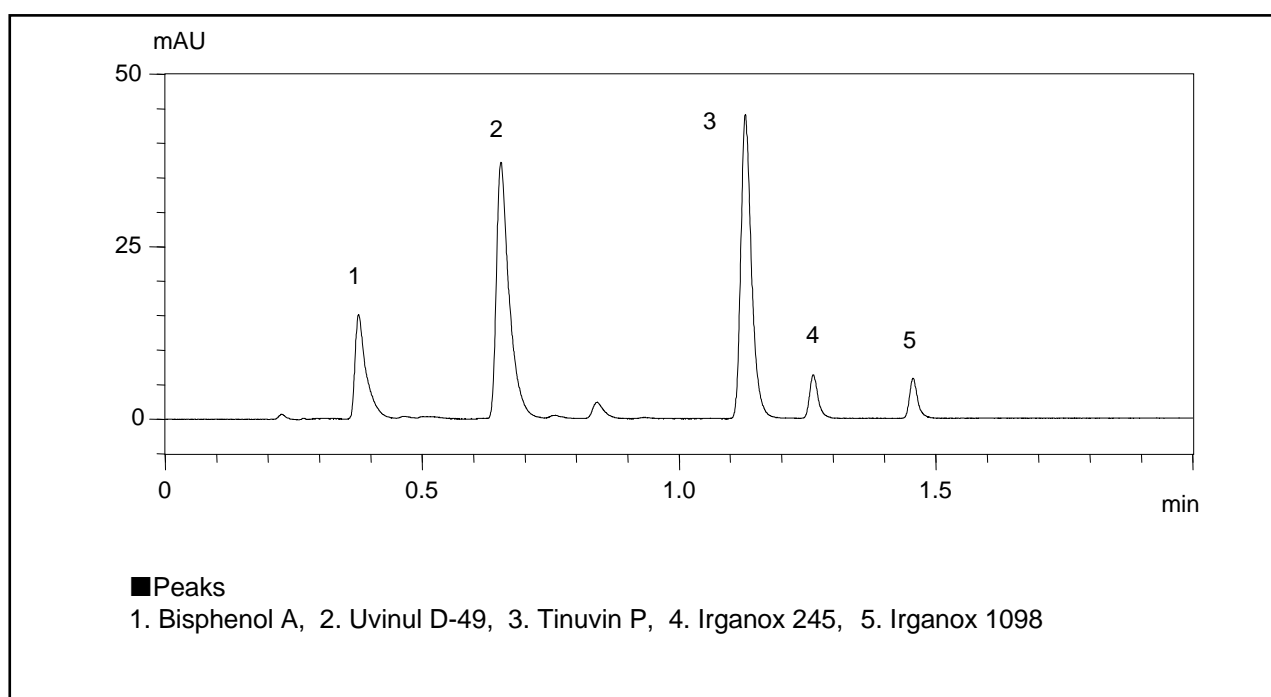
Application Data Sheet

High Performance Liquid Chromatography

No. 69

High-Speed Analysis of Polymer Additives (2)

In data sheet No. 68, a high-speed analysis example for 10 polymer additives was shown. This data sheet shows a separation of representative five polymer additives in shorter analysis time.



Analysis of Polymer Additives

[Sample Preparation]

Five polymer additives were dissolved with acetonitrile to prepare concentrations of 10 mg/L respectively.

Analytical Conditions

Instrument	: Prominence UFLC system
Column	: Shim-pack XR-ODS (50 mm × 3.0 mm <i>i.d.</i>)
Mobile Phase	: A) Water B) Acetonitrile B Conc. 60 % (0 min) → 100 % (1.75 min) → 60 % (1.76 min) → 60 % (2.5 min)
Flow Rate	: 1.0 mL/min
Column Temperature	: 60 °C
Detection	: Absorbance at 280 nm with Semi-micro flow cell
Sample Volume	: 4 μL