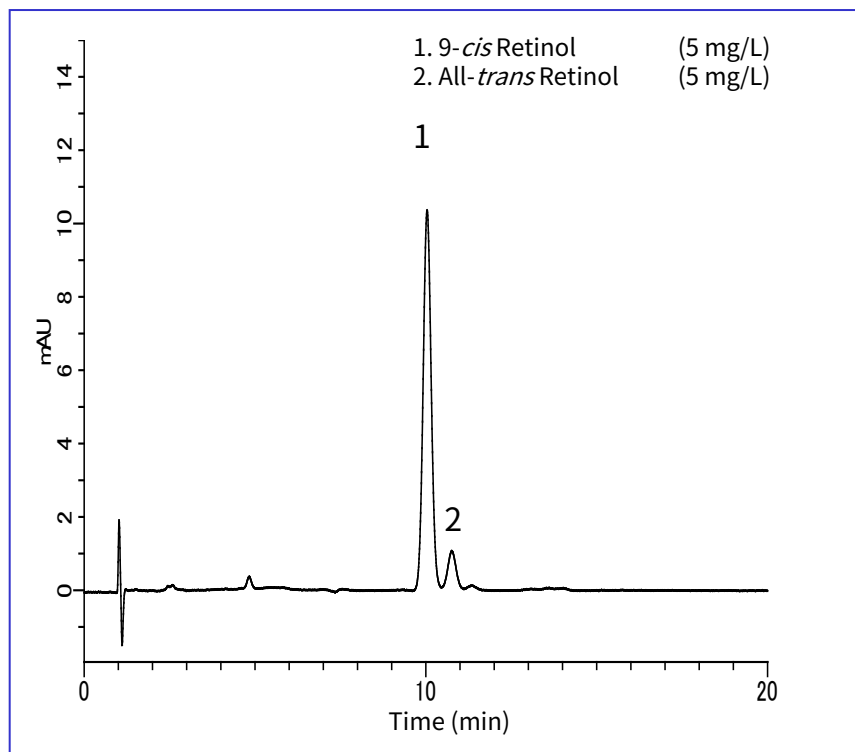


Vitamin A (retinol) exists as a structural isomer and has the isomers shown in the figure to the right. In this application, separation was made using Inertsil ODS-P, which is highly stereoselective.

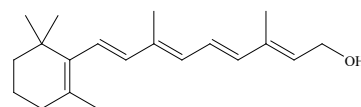
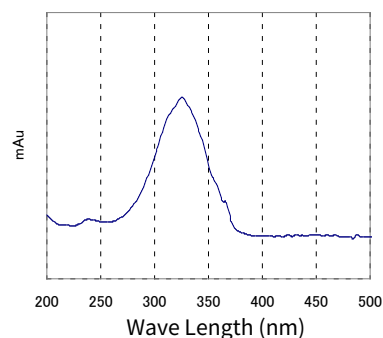
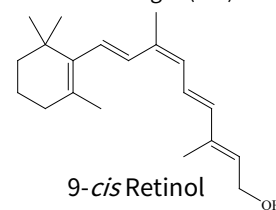
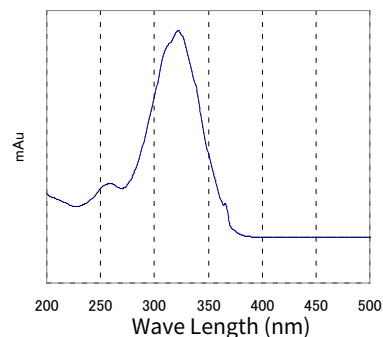
(K. Suzuki)

Example: Measurement of standards



Structural Formula and UV spectra

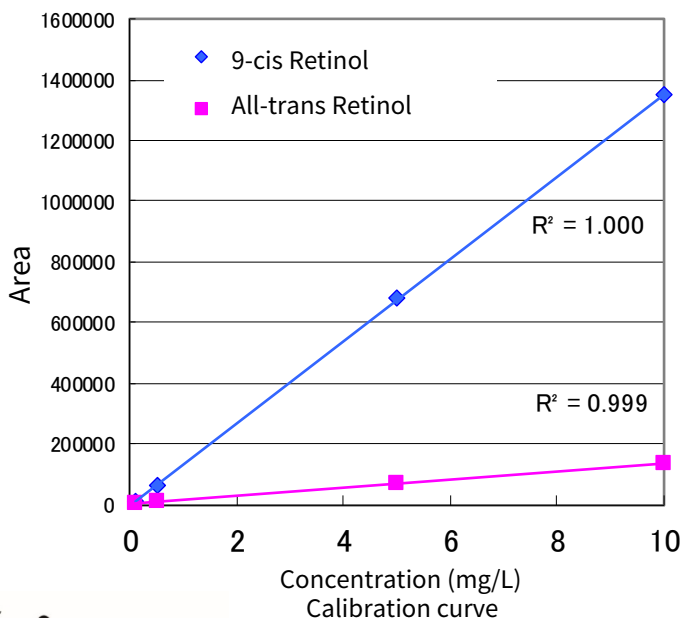
Spectrum in mobile phase



All-*trans* Retinol

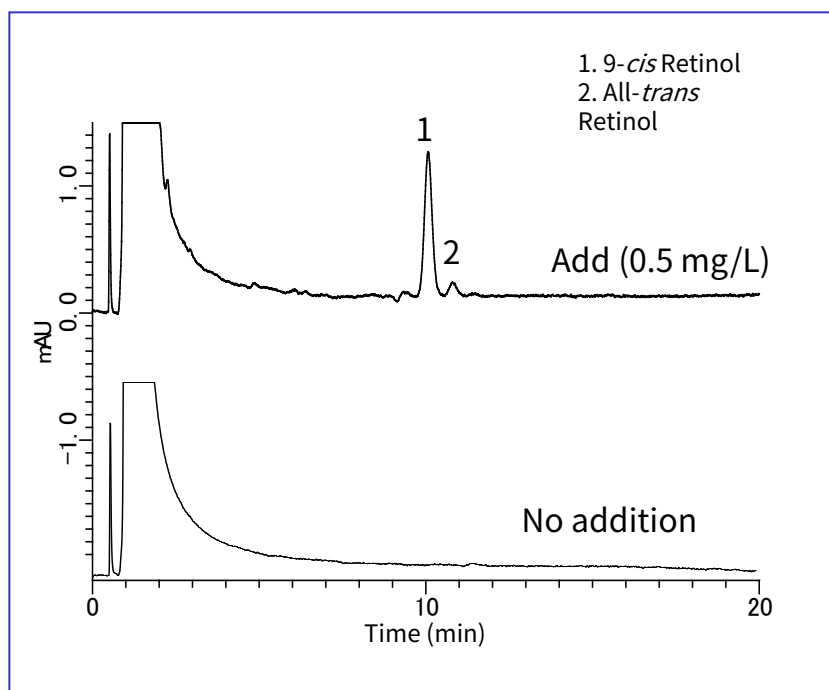
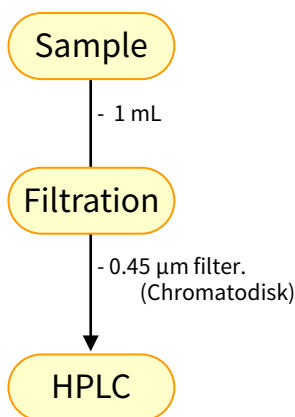
HPLC conditions

Column	: Inertsil ODS-P (5 μ m, 150 x 4.6 mm I.D.)
Eluent	: A) CH ₃ CN B) H ₂ O A/B = 75/25, v/v (Mixed by a gradient mixer)
Flow rate	: 1.0 mL/min
Column temperature	: 40 °C
Detected	: PDA 325 nm
Injection volume	: 10 μ L



Example of pretreatment

Examples of vegetable juice analysis



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